


DRAIN\_HIGHK.hob

```
#          CoverageGUID ObjectType ID X Y Time OBNAME
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5774, 221327.2, 326728.0 ts_0
hed1
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5775, 219776.0, 326790.0 ts_0
hed2
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5776, 220131.0, 325400.6 ts_0
hed3
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5777, 220779.0, 324851.0 ts_0
hed4
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5778, 219770.0, 325299.0 ts_0
hed5
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5779, 220383.0, 323927.0 ts_0
hed6
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5780, 220522.0, 325981.0 ts_0
hed7
7 0 6
1.0 1.0
hed1 5 32 73 1 0.0 0.1347586289295 -0.49533529968 3689.73 1.530640358798 1 1
hed2 5 31 40 1 0.0 0.047185929761 -0.250173221704 3698.05 1.530640358798 1 1
hed3 5 55 47 1 0.0 0.4193392881939 0.2459378293005 3696.72 1.530640358798 1 1
hed4 5 65 61 1 0.0 0.060145021455 -0.071020026894 3700.85 1.530640358798 1 1
hed5 5 57 40 1 0.0 0.2015551952144 -0.376868056369 3706.41 1.530640358798 1 1
hed6 5 81 53 1 0.0 0.2684865380731 -0.432879114776 3702.56 1.530640358798 1 1
hed7 5 45 56 1 0.0 0.238255504378 -0.497782111706 3604.85 1.530640358798 1 1
```

United States Nuclear Regulatory Commission Official Hearing Exhibit	
In the Matter of: CROW BUTTE RESOURCES, INC. (License Renewal for the In Situ Leach Facility, Crawford, Nebraska)	
	ASLBP #: 08-867-02-OLA-BD01
	Docket #: 04008943
	Exhibit #: BRD-007E-00-BD01
	Admitted: 9/4/2015
	Rejected:
	Other:
	Identified: 8/26/2015
	Withdrawn:
	Stricken:

DRAIN\_HIGHK.asp  
0 0 IPESTINT INTERP  
1 0 0 0.0 NOSTOP HDRYBOT LIMOP MINTHICK

DRAIN\_HIGHK.ba6

#NT-1

#12 December 2007

FREE

HDF5	1.0	-1	"DRAIN_HIGHK.h5"	"Arrays/ibound1"	1	0	10000
HDF5	1.0	-1	"DRAIN_HIGHK.h5"	"Arrays/ibound2"	1	0	10000
HDF5	1.0	-1	"DRAIN_HIGHK.h5"	"Arrays/ibound3"	1	0	10000
HDF5	1.0	-1	"DRAIN_HIGHK.h5"	"Arrays/ibound4"	1	0	10000
HDF5	1.0	-1	"DRAIN_HIGHK.h5"	"Arrays/ibound5"	1	0	10000
HDF5	1.0	-1	"DRAIN_HIGHK.h5"	"Arrays/ibound6"	1	0	10000
-999.000000							
HDF5	1.0	-1	"DRAIN_HIGHK.h5"	"Arrays/StartHead1"	1	0	10000
HDF5	1.0	-1	"DRAIN_HIGHK.h5"	"Arrays/StartHead2"	1	0	10000
HDF5	1.0	-1	"DRAIN_HIGHK.h5"	"Arrays/StartHead3"	1	0	10000
HDF5	1.0	-1	"DRAIN_HIGHK.h5"	"Arrays/StartHead4"	1	0	10000
HDF5	1.0	-1	"DRAIN_HIGHK.h5"	"Arrays/StartHead5"	1	0	10000
HDF5	1.0	-1	"DRAIN_HIGHK.h5"	"Arrays/StartHead6"	1	0	10000

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GMS_HDF5_01 "DRAIN_HIGHK.h5" "Specified Head" 1
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DRAIN_HIGHK.chob
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324591.94949304 1.0 no_chdf0
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 11 219594.16804226
323688.6211621 1.0 no_chdf1
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no_chdf2
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#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 3 218869.23003934
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#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 4 219829.5 323290.0 1.0
no_chdf5
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no_chdf6
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 6 219619.23539641
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no_chdf16
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1 98
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1 47 92 0.3089206773335
1 48 92 0.4962975034026
1 48 91 0.49638718074
1 48 90 0.4964656575741
1 49 90 0.4965362698315
1 49 89 0.4966336995111
1 50 89 0.4967042646495
1 50 88 0.496801629326
1 51 88 0.4968721473926
1 51 87 0.496951700644
1 51 86 0.4970399181729
1 52 86 0.4971103694725
1 52 85 0.4972075771022
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DRAIN\_HIGHK.chob

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 1 75 66 0.5016937560475  
 1 75 65 0.501766305887  
 1 74 65 0.501844174663  
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 1 82 58 0.5035637795799

## DRAIN\_HIGHK.chob

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1 87 46 0.0414963149509
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## DRAIN\_HIGHK.chob

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1 4 16 0.5035450561079
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DRAIN\_HIGHK.chob

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## DRAIN\_HIGHK.chob

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## DRAIN\_HIGHK.chob

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1 18 70 0.5000383819524
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1 18 72 0.5000165375127
1 18 73 0.500005614577
1 18 74 0.0076250078338
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DRAIN\_HIGHK.chob

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 1 60 81 0.5016267241011  
 1 61 81 0.5014994086957  
 1 62 81 0.5013721579005  
 1 63 81 0.5012449716663  
 1 64 81 0.5011178499441  
 1 65 81 0.5009907926846  
 1 66 81 0.500863799839  
 1 67 81 0.5007368713582  
 1 68 81 0.5006100071933  
 1 69 81 0.5004832072954  
 1 70 81 0.5003933627739  
 1 70 80 0.5003300096603  
 1 71 80 0.5002298001056  
 1 72 80 0.5000820849013  
 1 73 80 0.4999875096386  
 1 73 79 0.4999172208578  
 1 73 78 0.4997978773532  
 1 74 78 0.4997378315223  
 1 74 77 0.4996770094214  
 1 74 76 0.499556990249  
 1 74 75 0.4994884026444  
 1 75 75 0.4994284311467  
 1 75 74 0.4993171247882  
 1 75 73 0.4992392226319  
 1 76 73 0.4991793109517  
 1 76 72 0.4990774895626  
 1 76 71 0.4989902911126  
 1 77 71 0.4989308669183  
 1 77 70 0.4988463390964  
 1 77 69 0.4987415114607  
 1 77 68 0.4986367278727  
 1 77 67 0.4985769369879  
 1 76 67 0.4985080732779  
 1 76 66 0.4984100524595  
 1 75 66 0.4983062439525  
 1 75 65 0.498233694113  
 1 74 65 0.498155825337  
 1 73 65 0.4980574605282

## DRAIN\_HIGHK.chob

```

1 73 64 0.4979849831075
1 72 64 0.4979077532107
1 72 63 0.497825110332
1 72 62 0.4977262216944
1 73 62 0.4976537602861
1 73 61 0.4975881834165
1 74 61 0.4974826613678
1 75 61 0.4973516150536
1 76 61 0.4972835133305
1 76 60 0.4972180339945
1 77 60 0.4970897294365
1 78 60 0.4969792161113
1 78 59 0.4969138168817
1 79 59 0.4968281194715
1 80 59 0.4966974177225
1 81 59 0.4966099718046
1 81 58 0.4965446697128
1 82 58 0.4964362204201
1 83 58 0.4963064980814
1 83 57 0.4962412757709
1 84 57 0.4961659008743
1 84 56 0.4960376174159
1 84 55 0.4959610460528
1 85 55 0.4959073701449
1 85 54 0.4958229172058
1 85 53 0.4957156367823
1 85 52 0.4956084027729
1 85 51 0.4955194434925
1 86 51 0.4954658631227
1 86 50 0.4953940738761
1 86 49 0.4952869789286
1 86 48 0.4951799302749
1 86 47 0.4950786266365
1 87 47 0.4950251415499
1 87 46 0.0406769108411
1 5
no_chdf11 1 0.0 1.0 1.0e+019 1 1
1 83 36 0.0300037775913
1 84 36 0.4949317746247
1 85 36 0.4949149476545
1 86 36 0.4948981218284
1 87 36 0.4697186215875
1 11
no_chdf12 1 0.0 1.0 1.0e+019 1 1
1 87 46 0.4543677446194
1 88 46 0.4951263589867
1 89 46 0.4952073206811
1 90 46 0.495288308857
1 91 46 0.4953693235275
1 92 46 0.4954503647056
1 93 46 0.4955314324043
1 94 46 0.4956125266367
1 95 46 0.4956936474157
1 96 46 0.4957747947543
1 97 46 0.3082584948342
1 42
no_chdf13 1 0.0 1.0 1.0e+019 1 1
1 2 14 0.1464615554733
1 2 15 0.3301027797392
1 2 16 0.4966988266045
1 2 17 0.4967754485535
1 2 18 0.4968520941458
1 2 19 0.4969287633926

```

DRAIN\_HIGHK.chob

```

1 2 20 0.4970054563046
1 2 21 0.497082172893
1 2 22 0.4971589131685
1 2 23 0.4972356771423
1 2 24 0.4973124648253
1 2 25 0.4973892762284
1 2 26 0.4974661113627
1 2 27 0.4975429702392
1 2 28 0.4976198528689
1 2 29 0.4976967592627
1 2 30 0.4977736894318
1 2 31 0.497850643387
1 2 32 0.4979276211396
1 2 33 0.4980046227005
1 2 34 0.4980466884375
1 3 34 0.4980852046557
1 3 35 0.4981586972913
1 3 36 0.4982357703434
1 3 37 0.498312867248
1 3 38 0.4983899880163
1 3 39 0.4984671326592
1 3 40 0.4985443011879
1 3 41 0.4986214936135
1 3 42 0.4986987099471
1 3 43 0.4987759501998
1 3 44 0.4988532143826
1 3 45 0.4989305025068
1 3 46 0.4990078145835
1 3 47 0.4990851506237
1 3 48 0.4991625106387
1 3 49 0.4992398946396
1 3 50 0.4993173026375
1 3 51 0.4993947346436
1 3 52 0.4994721906691
1 3 53 0.4995496707251
1 3 54 0.0336060850463
1 36
no_chdf14 1 0.0 1.0 1.0e+019 1 1
1 2 14 0.3501057359839
1 2 15 0.1664940273828
1 3 15 0.4965132173716
1 4 15 0.4964789751423
1 4 16 0.4964549438921
1 5 16 0.4964170930704
1 6 16 0.4963875308528
1 6 17 0.496363508454
1 7 17 0.496321005981
1 8 17 0.4962961202426
1 8 18 0.4962721066903
1 9 18 0.4962287503265
1 9 19 0.4962047432931
1 10 19 0.4961769450719
1 11 19 0.496137398181
1 11 20 0.4961133999856
1 12 20 0.4960809509176
1 13 20 0.4960460796638
1 13 21 0.4960220903015
1 14 21 0.4959849938998
1 15 21 0.4959547947564
1 15 22 0.4959308142224
1 16 22 0.4958890739967
1 17 22 0.4958635434403
1 17 23 0.4958395717296

```

## DRAIN\_HIGHK.chob

```

1 18 23 0.4957962909057
1 18 24 0.4957723256968
1 19 24 0.4957452636851
1 20 24 0.4957050979015
1 20 25 0.4956811415076
1 21 25 0.4956494364748
1 22 25 0.4956139384378
1 22 26 0.495589990854
1 23 26 0.4955536463041
1 24 26 0.4955228124961
1 24 27 0.4760723273906
1 21
no_chdf15 1 0.0 1.0 1.0e+019 1 1
1 87 36 0.0251626977566
1 88 36 0.4949095520563
1 88 37 0.4949604891448
1 89 37 0.4950106765358
1 89 38 0.4950616344433
1 90 38 0.495111842349
1 90 39 0.4951628210885
1 91 39 0.4952130495215
1 91 40 0.4952640491055
1 92 40 0.4953142980785
1 92 41 0.4953653185199
1 93 41 0.4954155880454
1 93 42 0.495466629357
1 94 42 0.4955169194476
1 94 43 0.4955679816422
1 95 43 0.4956182923106
1 95 44 0.495669375401
1 96 44 0.4957197066598
1 96 45 0.4957708106589
1 97 45 0.4958211625207
1 97 46 0.1876002686882
1 49
no_chdf16 1 0.0 1.0 1.0e+019 1 1
1 18 74 0.4924174867912
1 19 74 0.5001417230153
1 19 75 0.5002069898078
1 20 75 0.500282118578
1 21 75 0.5003723366738
1 21 76 0.5004376636726
1 22 76 0.500537792889
1 22 77 0.5006031631007
1 23 77 0.5006741951268
1 24 77 0.5007687720293
1 24 78 0.5008342025906
1 25 78 0.5009344905674
1 25 79 0.5009999644443
1 26 79 0.5010668867068
1 27 79 0.5011658360592
1 27 80 0.5012313704293
1 28 80 0.5013290234926
1 29 80 0.5013973953333
1 29 81 0.5014629902806
1 30 81 0.5015635302599
1 30 82 0.5016291686862
1 31 82 0.5017227433456
1 32 82 0.5017954572671
1 32 83 0.5018611564149
1 33 83 0.5019618561329
1 33 84 0.5020275988634
1 34 84 0.5021170821021

```

## DRAIN\_HIGHK.chob

```

1 35 84 0.5021941517499
1 35 85 0.5022599553466
1 36 85 0.5023608151844
1 36 86 0.5024266624678
1 37 86 0.5025120412227
1 38 86 0.5025934802906
1 38 87 0.5026593885856
1 39 87 0.5027604089253
1 39 88 0.5028263610112
1 40 88 0.5029076221723
1 41 88 0.5029934444029
1 41 89 0.5030594576462
1 42 89 0.5031606388713
1 42 90 0.5032266960102
1 43 90 0.5033038264207
1 44 90 0.5033940456055
1 44 91 0.503460164048
1 45 91 0.503561506543
1 45 92 0.5036276689862
1 46 92 0.5037006554423
1 47 92 0.1901629438474
1 47 93 0.3086362867694
1 28
no_chdf17 1 0.0 1.0 1.0e+019 1 1
1 66 28 0.2684047678
1 66 29 0.4958636921857
1 66 30 0.4958311770316
1 66 31 0.4957986661415
1 66 32 0.4957661595144
1 66 33 0.4957336571497
1 66 34 0.4957011590463
1 66 35 0.4956686652036
1 66 36 0.4956361756206
1 66 37 0.4956106861651
1 67 37 0.4955819269536
1 68 37 0.4955429049721
1 69 37 0.4955038891353
1 70 37 0.4954648794417
1 71 37 0.4954258758899
1 72 37 0.4953970511117
1 72 36 0.4953775539075
1 73 36 0.4953478872058
1 74 36 0.4953089020706
1 75 36 0.4952699230714
1 76 36 0.4952309502067
1 77 36 0.4951919834751
1 78 36 0.4951530228751
1 79 36 0.4951140684053
1 80 36 0.4950751200643
1 81 36 0.4950361778505
1 82 36 0.4949972417626
1 83 36 0.464954574808
1 48
no_chdf18 1 0.0 1.0 1.0e+019 1 1
1 24 27 0.0194265783748
1 25 27 0.4954888028629
1 26 27 0.4954946431299
1 26 28 0.4954999835286
1 27 28 0.4955096271957
1 27 29 0.4955149679174
1 28 29 0.4955208462262
1 29 29 0.4955299532125
1 29 30 0.4955352943723

```



## DRAIN\_HIGHK.chob

```

1 30 30 0.4955422107711
1 31 30 0.4955525484477
1 32 30 0.4955624042494
1 33 30 0.4955721234323
1 34 30 0.4955818429964
1 35 30 0.4955915629418
1 36 30 0.4956012832685
1 37 30 0.4956110039765
1 38 30 0.4956207250659
1 39 30 0.4956304465365
1 40 30 0.4956401683886
1 41 30 0.4956498906221
1 42 30 0.4956596132369
1 43 30 0.4956693362333
1 44 30 0.4956790596111
1 45 30 0.4956848809121
1 45 29 0.4956897428582
1 46 29 0.4956985075111
1 47 29 0.4957082320334
1 48 29 0.4957179569373
1 49 29 0.4957276822228
1 50 29 0.4957374078898
1 51 29 0.4957471339385
1 52 29 0.4957568603688
1 53 29 0.4957665871808
1 54 29 0.4957763143745
1 55 29 0.4957860419499
1 56 29 0.495795769907
1 57 29 0.4958054982459
1 58 29 0.4958152269665
1 59 29 0.495824956069
1 60 29 0.4958346855533
1 61 29 0.4958400806434
1 61 28 0.4958449456346
1 62 28 0.4958541456674
1 63 28 0.4958638762973
1 64 28 0.4958736073092
1 65 28 0.4958833387029
1 66 28 0.2274823063453
1 38
no_chdf19 1 0.0 1.0 1.0e+019 1 1
1 3 54 0.4659921120886
1 3 55 0.4996092431102
1 3 56 0.4996201388592
1 3 57 0.4996301140164
1 4 57 0.4996412041493
1 5 57 0.4996543305594
1 6 57 0.4996674576593
1 7 57 0.4996805854489
1 8 57 0.4996937139284
1 9 57 0.4997068430977
1 10 57 0.499719972957
1 11 57 0.4997331035063
1 12 57 0.4997462347456
1 13 57 0.4997550927839
1 13 56 0.4997616588951
1 14 56 0.4997724992947
1 15 56 0.4997856326045
1 16 56 0.4997987666046
1 17 56 0.499809775888
1 17 57 0.4998196757029
1 17 58 0.4998305914833
1 17 59 0.4998415077405

```

DRAIN\_HIGHK.chob

1	17	60	0.4998524244745
1	17	61	0.4998633416855
1	17	62	0.4998742593733
1	17	63	0.499885177538
1	17	64	0.4998960961797
1	17	65	0.4999070152983
1	17	66	0.499917934894
1	17	67	0.4999259698814
1	18	67	0.4999314300336
1	18	68	0.4999397755166
1	18	69	0.4999506965435
1	18	70	0.4999616180476
1	18	71	0.4999725400288
1	18	72	0.4999834624873
1	18	73	0.499994385423
1	18	74	0.0076250055016

DRAIN\_HIGHK.dis

# MF2K DISCRETIZATION FILE

#

#

```
# NLAY NROW NCOL NPER TIMEUNITS LENUNITS
```

6 100 100 1 4 1

0 0 0 0 0 0

INTERNAL 1.0 (free) -1

[illegible]

INTERNAL 1.0 (free) -1

[illegible]

```
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/top1" 1 0 10000
```

```
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/bot1" 1 0 10000
```

HDF5	1.0	-1	"DRAIN_HIGHK.h5"	"Arrays/bot2"	1	0	10000
------	-----	----	------------------	---------------	---	---	-------

```
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/bot3" 1 0 10000
```

```
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/bot4" 1 0 10000
```

```
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/bot5" 1 0 10000
```

```
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/bot6" 1 0 10000
```

1.0 1 1.0 SS

DRAIN\_HIGHK.drn

#GMS\_HDF5\_01

432 40 AUX IFACE AUX CONDFACT AUX CELLGRP

432 0 0

GMS\_HDF5\_01 "DRAIN\_HIGHK.h5" "Drain" 1

```

DRAIN_HIGHK.drob
# CoverageGUID ObjectType ID X Y Time OBNAME
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 1 221620.32472546
324401.08427563 1.0 no_drnf0
1 432 1
1.0 1.0 0
1 432
no_drnf0 1 0.0 1.0 1.0e+019 1 1
2 97 46 1.0
3 97 46 1.0
4 97 46 1.0
5 97 46 1.0
2 96 46 1.0
3 96 46 1.0
4 96 46 1.0
5 96 46 1.0
2 95 46 1.0
3 95 46 1.0
4 95 46 1.0
5 95 46 1.0
2 94 46 1.0
3 94 46 1.0
4 94 46 1.0
5 94 46 1.0
2 93 46 1.0
3 93 46 1.0
4 93 46 1.0
5 93 46 1.0
2 92 46 1.0
3 92 46 1.0
4 92 46 1.0
5 92 46 1.0
2 91 46 1.0
3 91 46 1.0
4 91 46 1.0
5 91 46 1.0
2 90 46 1.0
3 90 46 1.0
4 90 46 1.0
5 90 46 1.0
2 89 46 1.0
3 89 46 1.0
4 89 46 1.0
5 89 46 1.0
2 88 46 1.0
3 88 46 1.0
4 88 46 1.0
5 88 46 1.0
2 87 46 1.0
3 87 46 1.0
4 87 46 1.0
5 87 46 1.0
2 87 47 1.0
3 87 47 1.0
4 87 47 1.0
5 87 47 1.0
2 86 47 1.0
3 86 47 1.0
4 86 47 1.0
5 86 47 1.0
2 86 48 1.0
3 86 48 1.0
4 86 48 1.0
5 86 48 1.0

```

DRAIN\_HIGHK.drob

2	86	49	1.0
3	86	49	1.0
4	86	49	1.0
5	86	49	1.0
2	86	50	1.0
3	86	50	1.0
4	86	50	1.0
5	86	50	1.0
2	86	51	1.0
3	86	51	1.0
4	86	51	1.0
5	86	51	1.0
2	85	51	1.0
3	85	51	1.0
4	85	51	1.0
5	85	51	1.0
2	85	52	1.0
3	85	52	1.0
4	85	52	1.0
5	85	52	1.0
2	85	53	1.0
3	85	53	1.0
4	85	53	1.0
5	85	53	1.0
2	85	54	1.0
3	85	54	1.0
4	85	54	1.0
5	85	54	1.0
2	85	55	1.0
3	85	55	1.0
4	85	55	1.0
5	85	55	1.0
2	84	55	1.0
3	84	55	1.0
4	84	55	1.0
5	84	55	1.0
2	84	56	1.0
3	84	56	1.0
4	84	56	1.0
5	84	56	1.0
2	84	57	1.0
3	84	57	1.0
4	84	57	1.0
5	84	57	1.0
2	83	57	1.0
3	83	57	1.0
4	83	57	1.0
5	83	57	1.0
2	83	58	1.0
3	83	58	1.0
4	83	58	1.0
5	83	58	1.0
2	82	58	1.0
3	82	58	1.0
4	82	58	1.0
5	82	58	1.0
2	81	58	1.0
3	81	58	1.0
4	81	58	1.0
5	81	58	1.0
2	81	59	1.0
3	81	59	1.0
4	81	59	1.0

DRAIN\_HIGHK.drob

5 81 59 1.0  
2 80 59 1.0  
3 80 59 1.0  
4 80 59 1.0  
5 80 59 1.0  
2 79 59 1.0  
3 79 59 1.0  
4 79 59 1.0  
5 79 59 1.0  
2 78 59 1.0  
3 78 59 1.0  
4 78 59 1.0  
5 78 59 1.0  
2 78 60 1.0  
3 78 60 1.0  
4 78 60 1.0  
5 78 60 1.0  
2 77 60 1.0  
3 77 60 1.0  
4 77 60 1.0  
5 77 60 1.0  
2 76 60 1.0  
3 76 60 1.0  
4 76 60 1.0  
5 76 60 1.0  
2 76 61 1.0  
3 76 61 1.0  
4 76 61 1.0  
5 76 61 1.0  
2 75 61 1.0  
3 75 61 1.0  
4 75 61 1.0  
5 75 61 1.0  
2 74 61 1.0  
3 74 61 1.0  
4 74 61 1.0  
5 74 61 1.0  
2 73 61 1.0  
3 73 61 1.0  
4 73 61 1.0  
5 73 61 1.0  
2 73 62 1.0  
3 73 62 1.0  
4 73 62 1.0  
5 73 62 1.0  
2 72 62 1.0  
3 72 62 1.0  
4 72 62 1.0  
5 72 62 1.0  
2 72 63 1.0  
3 72 63 1.0  
4 72 63 1.0  
5 72 63 1.0  
2 72 64 1.0  
3 72 64 1.0  
4 72 64 1.0  
5 72 64 1.0  
2 73 64 1.0  
3 73 64 1.0  
4 73 64 1.0  
5 73 64 1.0  
2 73 65 1.0  
3 73 65 1.0

DRAIN\_HIGHK.drob

4 73 65 1.0  
5 73 65 1.0  
2 74 65 1.0  
3 74 65 1.0  
4 74 65 1.0  
5 74 65 1.0  
2 75 65 1.0  
3 75 65 1.0  
4 75 65 1.0  
5 75 65 1.0  
2 75 66 1.0  
3 75 66 1.0  
4 75 66 1.0  
5 75 66 1.0  
2 76 66 1.0  
3 76 66 1.0  
4 76 66 1.0  
5 76 66 1.0  
2 76 67 1.0  
3 76 67 1.0  
4 76 67 1.0  
5 76 67 1.0  
2 77 67 1.0  
3 77 67 1.0  
4 77 67 1.0  
5 77 67 1.0  
2 77 68 1.0  
3 77 68 1.0  
4 77 68 1.0  
5 77 68 1.0  
2 77 69 1.0  
3 77 69 1.0  
4 77 69 1.0  
5 77 69 1.0  
2 77 70 1.0  
3 77 70 1.0  
4 77 70 1.0  
5 77 70 1.0  
2 77 71 1.0  
3 77 71 1.0  
4 77 71 1.0  
5 77 71 1.0  
2 76 71 1.0  
3 76 71 1.0  
4 76 71 1.0  
5 76 71 1.0  
2 76 72 1.0  
3 76 72 1.0  
4 76 72 1.0  
5 76 72 1.0  
2 76 73 1.0  
3 76 73 1.0  
4 76 73 1.0  
5 76 73 1.0  
2 75 73 1.0  
3 75 73 1.0  
4 75 73 1.0  
5 75 73 1.0  
2 75 74 1.0  
3 75 74 1.0  
4 75 74 1.0  
5 75 74 1.0  
2 75 75 1.0



DRAIN\_HIGHK.drob

3	75	75	1.0
4	75	75	1.0
5	75	75	1.0
2	74	75	1.0
3	74	75	1.0
4	74	75	1.0
5	74	75	1.0
2	74	76	1.0
3	74	76	1.0
4	74	76	1.0
5	74	76	1.0
2	74	77	1.0
3	74	77	1.0
4	74	77	1.0
5	74	77	1.0
2	74	78	1.0
3	74	78	1.0
4	74	78	1.0
5	74	78	1.0
2	73	78	1.0
3	73	78	1.0
4	73	78	1.0
5	73	78	1.0
2	73	79	1.0
3	73	79	1.0
4	73	79	1.0
5	73	79	1.0
2	73	80	1.0
3	73	80	1.0
4	73	80	1.0
5	73	80	1.0
2	72	80	1.0
3	72	80	1.0
4	72	80	1.0
5	72	80	1.0
2	71	80	1.0
3	71	80	1.0
4	71	80	1.0
5	71	80	1.0
2	70	80	1.0
3	70	80	1.0
4	70	80	1.0
5	70	80	1.0
2	70	81	1.0
3	70	81	1.0
4	70	81	1.0
5	70	81	1.0
2	69	81	1.0
3	69	81	1.0
4	69	81	1.0
5	69	81	1.0
2	68	81	1.0
3	68	81	1.0
4	68	81	1.0
5	68	81	1.0
2	67	81	1.0
3	67	81	1.0
4	67	81	1.0
5	67	81	1.0
2	66	81	1.0
3	66	81	1.0
4	66	81	1.0
5	66	81	1.0

DRAIN\_HIGHK.drob

2	65	81	1.0
3	65	81	1.0
4	65	81	1.0
5	65	81	1.0
2	64	81	1.0
3	64	81	1.0
4	64	81	1.0
5	64	81	1.0
2	63	81	1.0
3	63	81	1.0
4	63	81	1.0
5	63	81	1.0
2	62	81	1.0
3	62	81	1.0
4	62	81	1.0
5	62	81	1.0
2	61	81	1.0
3	61	81	1.0
4	61	81	1.0
5	61	81	1.0
2	60	81	1.0
3	60	81	1.0
4	60	81	1.0
5	60	81	1.0
2	59	81	1.0
3	59	81	1.0
4	59	81	1.0
5	59	81	1.0
2	58	81	1.0
3	58	81	1.0
4	58	81	1.0
5	58	81	1.0
2	57	81	1.0
3	57	81	1.0
4	57	81	1.0
5	57	81	1.0
2	56	81	1.0
3	56	81	1.0
4	56	81	1.0
5	56	81	1.0
2	55	81	1.0
3	55	81	1.0
4	55	81	1.0
5	55	81	1.0
2	55	82	1.0
3	55	82	1.0
4	55	82	1.0
5	55	82	1.0
2	54	82	1.0
3	54	82	1.0
4	54	82	1.0
5	54	82	1.0
2	54	83	1.0
3	54	83	1.0
4	54	83	1.0
5	54	83	1.0
2	53	83	1.0
3	53	83	1.0
4	53	83	1.0
5	53	83	1.0
2	53	84	1.0
3	53	84	1.0
4	53	84	1.0

DRAIN\_HIGHK.drob

5	53	84	1.0
2	53	85	1.0
3	53	85	1.0
4	53	85	1.0
5	53	85	1.0
2	52	85	1.0
3	52	85	1.0
4	52	85	1.0
5	52	85	1.0
2	52	86	1.0
3	52	86	1.0
4	52	86	1.0
5	52	86	1.0
2	51	86	1.0
3	51	86	1.0
4	51	86	1.0
5	51	86	1.0
2	51	87	1.0
3	51	87	1.0
4	51	87	1.0
5	51	87	1.0
2	51	88	1.0
3	51	88	1.0
4	51	88	1.0
5	51	88	1.0
2	50	88	1.0
3	50	88	1.0
4	50	88	1.0
5	50	88	1.0
2	50	89	1.0
3	50	89	1.0
4	50	89	1.0
5	50	89	1.0
2	49	89	1.0
3	49	89	1.0
4	49	89	1.0
5	49	89	1.0
2	49	90	1.0
3	49	90	1.0
4	49	90	1.0
5	49	90	1.0
2	48	90	1.0
3	48	90	1.0
4	48	90	1.0
5	48	90	1.0
2	48	91	1.0
3	48	91	1.0
4	48	91	1.0
5	48	91	1.0
2	48	92	1.0
3	48	92	1.0
4	48	92	1.0
5	48	92	1.0
2	47	92	1.0
3	47	92	1.0
4	47	92	1.0
5	47	92	1.0
2	47	93	1.0
3	47	93	1.0
4	47	93	1.0
5	47	93	1.0

DRAIN\_HIGHK.evt

#GMS\_HDF5\_01

1 40

1 1 1 1

HDF5 1.0 -1 "DRAIN\_HIGHK.h5" "ET/07. Property" 3 0 1 0 10000 0 1

HDF5 1.0 -1 "DRAIN\_HIGHK.h5" "ET/07. Property" 3 1 1 0 10000 0 1

HDF5 1.0 -1 "DRAIN\_HIGHK.h5" "ET/07. Property" 3 2 1 0 10000 0 1

```

DRAIN_HIGHK.gbob
# CoverageGUID ObjectType ID X Y Time OBNAME
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 2 219899.98547031
328399.37538393 1.0 no_ghbf0
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 3 219323.21532894
326636.73976194 1.0 no_ghbf1
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 4 219606.20168673
324019.54638495 1.0 no_ghbf2
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 5 221825.0 326713.0 1.0
no_ghbf3
4 263 4
1.0 1.0 0
1 79
no_ghbf0 1 0.0 1.0 1.0e+019 1 1
5 18 74 1.0
5 18 73 1.0
5 18 72 1.0
5 18 71 1.0
5 18 70 1.0
5 18 69 1.0
5 18 68 1.0
5 18 67 1.0
5 17 67 1.0
5 17 66 1.0
5 17 65 1.0
5 17 64 1.0
5 17 63 1.0
5 17 62 1.0
5 17 61 1.0
5 17 60 1.0
5 17 59 1.0
5 17 58 1.0
5 17 57 1.0
5 17 56 1.0
5 16 56 1.0
5 15 56 1.0
5 14 56 1.0
5 13 56 1.0
5 13 57 1.0
5 12 57 1.0
5 11 57 1.0
5 10 57 1.0
5 9 57 1.0
5 8 57 1.0
5 7 57 1.0
5 6 57 1.0
5 5 57 1.0
5 4 57 1.0
5 3 57 1.0
5 3 56 1.0
5 3 55 1.0
5 3 54 1.0
5 3 53 1.0
5 3 52 1.0
5 3 51 1.0
5 3 50 1.0
5 3 49 1.0
5 3 48 1.0
5 3 47 1.0
5 3 46 1.0
5 3 45 1.0
5 3 44 1.0
5 3 43 1.0
5 3 42 1.0

```

# DRAIN\_HIGHK.gbob

```

5 3 41 1.0
5 3 40 1.0
5 3 39 1.0
5 3 38 1.0
5 3 37 1.0
5 3 36 1.0
5 3 35 1.0
5 3 34 1.0
5 2 34 1.0
5 2 33 1.0
5 2 32 1.0
5 2 31 1.0
5 2 30 1.0
5 2 29 1.0
5 2 28 1.0
5 2 27 1.0
5 2 26 1.0
5 2 25 1.0
5 2 24 1.0
5 2 23 1.0
5 2 22 1.0
5 2 21 1.0
5 2 20 1.0
5 2 19 1.0
5 2 18 1.0
5 2 17 1.0
5 2 16 1.0
5 2 15 1.0
5 2 14 1.0
1 83
no_ghbf1 1 0.0 1.0 1.0e+019 1 1
5 66 28 1.0
5 65 28 1.0
5 64 28 1.0
5 63 28 1.0
5 62 28 1.0
5 61 28 1.0
5 61 29 1.0
5 60 29 1.0
5 59 29 1.0
5 58 29 1.0
5 57 29 1.0
5 56 29 1.0
5 55 29 1.0
5 54 29 1.0
5 53 29 1.0
5 52 29 1.0
5 51 29 1.0
5 50 29 1.0
5 49 29 1.0
5 48 29 1.0
5 47 29 1.0
5 46 29 1.0
5 45 29 1.0
5 45 30 1.0
5 44 30 1.0
5 43 30 1.0
5 42 30 1.0
5 41 30 1.0
5 40 30 1.0
5 39 30 1.0
5 38 30 1.0
5 37 30 1.0

```

# DRAIN\_HIGHK.gbob

```

5 36 30 1.0
5 35 30 1.0
5 34 30 1.0
5 33 30 1.0
5 32 30 1.0
5 31 30 1.0
5 30 30 1.0
5 29 30 1.0
5 29 29 1.0
5 28 29 1.0
5 27 29 1.0
5 27 28 1.0
5 26 28 1.0
5 26 27 1.0
5 25 27 1.0
5 24 27 1.0
5 24 26 1.0
5 23 26 1.0
5 22 26 1.0
5 22 25 1.0
5 21 25 1.0
5 20 25 1.0
5 20 24 1.0
5 19 24 1.0
5 18 24 1.0
5 18 23 1.0
5 17 23 1.0
5 17 22 1.0
5 16 22 1.0
5 15 22 1.0
5 15 21 1.0
5 14 21 1.0
5 13 21 1.0
5 13 20 1.0
5 12 20 1.0
5 11 20 1.0
5 11 19 1.0
5 10 19 1.0
5 9 19 1.0
5 9 18 1.0
5 8 18 1.0
5 8 17 1.0
5 7 17 1.0
5 6 17 1.0
5 6 16 1.0
5 5 16 1.0
5 4 16 1.0
5 4 15 1.0
5 3 15 1.0
5 2 15 1.0
5 2 14 1.0
1 52
no_ghbf2 1 0.0 1.0 1.0e+019 1 1
5 97 46 1.0
5 97 45 1.0
5 96 45 1.0
5 96 44 1.0
5 95 44 1.0
5 95 43 1.0
5 94 43 1.0
5 94 42 1.0
5 93 42 1.0
5 93 41 1.0

```

DRAIN\_HIGHK.gbob

```

5 92 41 1.0
5 92 40 1.0
5 91 40 1.0
5 91 39 1.0
5 90 39 1.0
5 90 38 1.0
5 89 38 1.0
5 89 37 1.0
5 88 37 1.0
5 88 36 1.0
5 87 36 1.0
5 86 36 1.0
5 85 36 1.0
5 84 36 1.0
5 83 36 1.0
5 82 36 1.0
5 81 36 1.0
5 80 36 1.0
5 79 36 1.0
5 78 36 1.0
5 77 36 1.0
5 76 36 1.0
5 75 36 1.0
5 74 36 1.0
5 73 36 1.0
5 72 36 1.0
5 72 37 1.0
5 71 37 1.0
5 70 37 1.0
5 69 37 1.0
5 68 37 1.0
5 67 37 1.0
5 66 37 1.0
5 66 36 1.0
5 66 35 1.0
5 66 34 1.0
5 66 33 1.0
5 66 32 1.0
5 66 31 1.0
5 66 30 1.0
5 66 29 1.0
5 66 28 1.0
1 49
no_ghbf3 1 0.0 1.0 1.0e+019 1 1
5 47 93 1.0
5 47 92 1.0
5 46 92 1.0
5 45 92 1.0
5 45 91 1.0
5 44 91 1.0
5 44 90 1.0
5 43 90 1.0
5 42 90 1.0
5 42 89 1.0
5 41 89 1.0
5 41 88 1.0
5 40 88 1.0
5 39 88 1.0
5 39 87 1.0
5 38 87 1.0
5 38 86 1.0
5 37 86 1.0
5 36 86 1.0

```



DRAIN\_HIGHK.gbob

5	36	85	1.0
5	35	85	1.0
5	35	84	1.0
5	34	84	1.0
5	33	84	1.0
5	33	83	1.0
5	32	83	1.0
5	32	82	1.0
5	31	82	1.0
5	30	82	1.0
5	30	81	1.0
5	29	81	1.0
5	29	80	1.0
5	28	80	1.0
5	27	80	1.0
5	27	79	1.0
5	26	79	1.0
5	25	79	1.0
5	25	78	1.0
5	24	78	1.0
5	24	77	1.0
5	23	77	1.0
5	22	77	1.0
5	22	76	1.0
5	21	76	1.0
5	21	75	1.0
5	20	75	1.0
5	19	75	1.0
5	19	74	1.0
5	18	74	1.0

DRAIN\_HIGHK.ghb

#GMS\_HDF5\_01

263 40 AUX IFACE AUX CONDFACT AUX CELLGRP

263 0 0

GMS\_HDF5\_01 "DRAIN\_HIGHK.h5" "General Head" 1

DRAIN\_HIGHK.glo  
MODFLOW-2000  
U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER FLOW MODEL  
VERSION 1.18.01 06/20/2008

This model run produced both GLOBAL and LIST files. This is the GLOBAL file.

GLOBAL LISTING FILE: "DRAIN\_HIGHK.glo"  
UNIT 1

OPENING "DRAIN\_HIGHK.out"  
FILE TYPE:LIST UNIT 2 STATUS:REPLACE  
FORMAT:FORMATTED ACCESS:SEQUENTIAL

OPENING "DRAIN\_HIGHK.hed"  
FILE TYPE:DATA(BINARY) UNIT 30 STATUS:UNKNOWN  
FORMAT:BINARY ACCESS:SEQUENTIAL

OPENING "DRAIN\_HIGHK.ccf"  
FILE TYPE:DATA(BINARY) UNIT 40 STATUS:UNKNOWN  
FORMAT:BINARY ACCESS:SEQUENTIAL

OPENING "DRAIN\_HIGHK.lmt"  
FILE TYPE:LMT6 UNIT 18 STATUS:OLD  
FORMAT:FORMATTED ACCESS:SEQUENTIAL

#

# Obs-Sen-Pes Process Input Files

OPENING "DRAIN\_HIGHK.obs"  
FILE TYPE:OBS UNIT 50 STATUS:OLD  
FORMAT:FORMATTED ACCESS:SEQUENTIAL

OPENING "DRAIN\_HIGHK.hob"  
FILE TYPE:HOB UNIT 51 STATUS:OLD  
FORMAT:FORMATTED ACCESS:SEQUENTIAL

OPENING "DRAIN\_HIGHK.gbob"  
FILE TYPE:GBOB UNIT 53 STATUS:OLD  
FORMAT:FORMATTED ACCESS:SEQUENTIAL

OPENING "DRAIN\_HIGHK.drob"  
FILE TYPE:DROB UNIT 54 STATUS:OLD  
FORMAT:FORMATTED ACCESS:SEQUENTIAL

OPENING "DRAIN\_HIGHK.chob"  
FILE TYPE:CHOB UNIT 55 STATUS:OLD  
FORMAT:FORMATTED ACCESS:SEQUENTIAL

OPENING "DRAIN\_HIGHK.t\_snn"  
FILE TYPE:SEN UNIT 57 STATUS:OLD  
FORMAT:FORMATTED ACCESS:SEQUENTIAL

OPENING "DRAIN\_HIGHK.pes"  
FILE TYPE:PES UNIT 58 STATUS:OLD  
FORMAT:FORMATTED ACCESS:SEQUENTIAL

FILE TYPE:ASP: FILE = DRAIN\_HIGHK.asp

#

# DRAIN\_HIGHK.g1o

## # Global Input Files

```

OPENING "DRAIN_HIGHK.dis"
FILE TYPE:DIS UNIT 19 STATUS:OLD
FORMAT:FORMATTED ACCESS:SEQUENTIAL
#

```

## # Flow Process Input Files

```

OPENING "DRAIN_HIGHK.ba6"
FILE TYPE:BAS6 UNIT 3 STATUS:OLD
FORMAT:FORMATTED ACCESS:SEQUENTIAL

```

```

OPENING "DRAIN_HIGHK.lpf"
FILE TYPE:LPF UNIT 4 STATUS:OLD
FORMAT:FORMATTED ACCESS:SEQUENTIAL

```

```

OPENING "DRAIN_HIGHK.oc"
FILE TYPE:OC UNIT 15 STATUS:OLD
FORMAT:FORMATTED ACCESS:SEQUENTIAL

```

```

OPENING "DRAIN_HIGHK.rch"
FILE TYPE:RCH UNIT 16 STATUS:OLD
FORMAT:FORMATTED ACCESS:SEQUENTIAL

```

```

OPENING "DRAIN_HIGHK.hfb"
FILE TYPE:HFB6 UNIT 7 STATUS:OLD
FORMAT:FORMATTED ACCESS:SEQUENTIAL

```

```

OPENING "DRAIN_HIGHK.wel"
FILE TYPE:WEL UNIT 9 STATUS:OLD
FORMAT:FORMATTED ACCESS:SEQUENTIAL

```

```

OPENING "DRAIN_HIGHK.drn"
FILE TYPE:DRN UNIT 10 STATUS:OLD
FORMAT:FORMATTED ACCESS:SEQUENTIAL

```

```

OPENING "DRAIN_HIGHK.ghb"
FILE TYPE:GHB UNIT 11 STATUS:OLD
FORMAT:FORMATTED ACCESS:SEQUENTIAL

```

```

OPENING "DRAIN_HIGHK.evt"
FILE TYPE:EVT UNIT 12 STATUS:OLD
FORMAT:FORMATTED ACCESS:SEQUENTIAL

```

```

OPENING "DRAIN_HIGHK.chd"
FILE TYPE:CHD UNIT 13 STATUS:OLD
FORMAT:FORMATTED ACCESS:SEQUENTIAL

```

```

OPENING "DRAIN_HIGHK.pcg"
FILE TYPE:PCG UNIT 14 STATUS:OLD
FORMAT:FORMATTED ACCESS:SEQUENTIAL

```

THE FREE FORMAT OPTION HAS BEEN SELECTED

DISCRETIZATION INPUT DATA READ FROM UNIT 19  
# MF2K DISCRETIZATION FILE

# DRAIN\_HIGHK.g1o

```
#
#
# NLAY NROW NCOL NPER TIMEUNITS LENUNITS
# 6 LAYERS 100 ROWS 100 COLUMNS
# 1 STRESS PERIOD(S) IN SIMULATION
MODEL TIME UNIT IS DAYS
MODEL LENGTH UNIT IS FEET
THE GROUND-WATER TRANSPORT PROCESS IS INACTIVE

THE OBSERVATION PROCESS IS ACTIVE
THE SENSITIVITY PROCESS IS ACTIVE, BUT ISENALL < 0
THE PARAMETER-ESTIMATION PROCESS IS ACTIVE
```

MODE: FORWARD WITH OBSERVATIONS AND PARAMETER-VALUE SUBSTITUTION

Confining bed flag for each layer:

0 0 0 0 0 0

```
540200 ELEMENTS OF GX ARRAY USED OUT OF 540200
60000 ELEMENTS OF GZ ARRAY USED OUT OF 60000
60000 ELEMENTS OF IG ARRAY USED OUT OF 60000
```

VARIABLES READ FROM ASP INPUT FILE:-

```
NOSTOP = 1 : DO NOT CEASE EXECUTION IF MODFLOW FAILS TO CONVERGE.
HYDRYBOT = 0 : ASSIGN HDRY TO HEAD IN DRY CELL.
MINTHICK = 0.000 : DO NOT PREVENT BASAL CELLS DRYING OUT.
LIMOP = 0 : NO LIMITATIONS ON OBSERVATION OR SENSITIVITY OUTPUT.
```

READING ON UNIT 19 WITH FORMAT: (FREE)

READING ON UNIT 19 WITH FORMAT: (FREE)

STRESS PERIOD	LENGTH	TIME STEPS	MULTIPLIER FOR DELT	SS FLAG
1	1.000000	1	1.000	SS

STEADY-STATE SIMULATION

LPF1 -- LAYER PROPERTY FLOW PACKAGE, VERSION 1, 1/11/2000  
INPUT READ FROM UNIT 4  
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT 40  
HEAD AT CELLS THAT CONVERT TO DRY= -888.00  
No named parameters

LAYER FLAGS:

LAYER	LAYTYP	LAYAVG	CHANI	LAYVKA	LAYWET

			DRAIN_HIGHK.g1o		
1	1	0	-1.000E+00	1	1
2	0	0	-1.000E+00	1	0
3	0	0	-1.000E+00	1	0
4	0	0	-1.000E+00	1	0
5	0	0	-1.000E+00	1	0
6	0	0	-1.000E+00	1	0

INTERPRETATION OF LAYER FLAGS:					
LAYER	LAYER TYPE (LAYTYP)	INTERBLOCK TRANSMISSIVITY (LAYAVG)	HORIZONTAL ANISOTROPY (CHANI)	DATA IN ARRAY VKA (LAYVKA)	WETTABILITY (LAYWET)
1	CONVERTIBLE	HARMONIC	VARIABLE	ANISOTROPY	WETTABLE
2	CONFINED	HARMONIC	VARIABLE	ANISOTROPY	NON-WETTABLE
3	CONFINED	HARMONIC	VARIABLE	ANISOTROPY	NON-WETTABLE
4	CONFINED	HARMONIC	VARIABLE	ANISOTROPY	NON-WETTABLE
5	CONFINED	HARMONIC	VARIABLE	ANISOTROPY	NON-WETTABLE
6	CONFINED	HARMONIC	VARIABLE	ANISOTROPY	NON-WETTABLE

240000 ELEMENTS IN X ARRAY ARE USED BY LPF  
36 ELEMENTS IN IX ARRAY ARE USED BY LPF

PCG2 -- CONJUGATE GRADIENT SOLUTION PACKAGE, VERSION 2.4, 12/29/98  
MAXIMUM OF 25 CALLS OF SOLUTION ROUTINE  
MAXIMUM OF 50 INTERNAL ITERATIONS PER CALL TO SOLUTION ROUTINE  
MATRIX PRECONDITIONING TYPE : 1  
122500 ELEMENTS IN X ARRAY ARE USED BY PCG  
8750 ELEMENTS IN IX ARRAY ARE USED BY PCG  
240000 ELEMENTS IN Z ARRAY ARE USED BY PCG

SEN1BAS6 -- SENSITIVITY PROCESS, VERSION 1.0, 10/15/98  
INPUT READ FROM UNIT 57

NUMBER OF PARAMETER VALUES TO BE READ FROM SEN FILE: 3  
ISENALL.....: -1  
SENSITIVITY PROCESS HAS BEEN DEACTIVATED BECAUSE ISENALL<0  
PARAMETER-ESTIMATION PROCESS HAS BEEN DEACTIVATED BECAUSE ISENALL<0

60022 ELEMENTS IN X ARRAY ARE USED FOR SENSITIVITIES  
60000 ELEMENTS IN Z ARRAY ARE USED FOR SENSITIVITIES  
6 ELEMENTS IN IX ARRAY ARE USED FOR SENSITIVITIES

OBS1BAS6 -- OBSERVATION PROCESS, VERSION 1.0, 4/27/99  
INPUT READ FROM UNIT 50  
OBSERVATION GRAPH-DATA OUTPUT FILES  
WILL BE PRINTED AND NAMED USING THE BASE: DRAIN\_HIGHK

HEAD OBSERVATIONS -- INPUT READ FROM UNIT 51  
# CoverageGUID ObjectType ID X Y Time OBNAME  
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5774, 221327.2, 326728.0  
ts\_0 hed1  
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5775, 219776.0, 326790.0  
ts\_0 hed2  
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5776, 220131.0, 325400.6  
ts\_0 hed3  
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5777, 220779.0, 324851.0  
ts\_0 hed4  
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5778, 219770.0, 325299.0  
ts\_0 hed5  
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5779, 220383.0, 323927.0  
ts\_0 hed6  
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5780, 220522.0, 325981.0  
ts\_0 hed7

# DRAIN\_HIGHK.g1o

NUMBER OF HEADS.....: 7  
 NUMBER OF MULTILAYER HEADS.....: 0  
 MAXIMUM NUMBER OF LAYERS FOR MULTILAYER HEADS.....: 6

OBS1DRN6 -- OBSERVATION PROCESS (DRAIN FLOW OBSERVATIONS)  
 VERSION 1.0, 10/15/98  
 INPUT READ FROM UNIT 54  
 # CoverageGUID ObjectType ID X Y Time OBNAME  
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 1 221620.32472546  
 324401.08427563 1.0 no\_drnf0

NUMBER OF FLOW-OBSERVATION DRAIN-CELL GROUPS.....: 1  
 NUMBER OF CELLS IN DRAIN-CELL GROUPS.....: 432  
 NUMBER OF DRAIN-CELL FLOWS.....: 1

OBS1GHB6 -- OBSERVATION PROCESS (GENERAL HEAD BOUNDARY FLOW OBSERVATIONS)  
 VERSION 1.0, 10/15/98  
 INPUT READ FROM UNIT 53  
 # CoverageGUID ObjectType ID X Y Time OBNAME  
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 2 219899.98547031  
 328399.37538393 1.0 no\_ghbf0  
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 3 219323.21532894  
 326636.73976194 1.0 no\_ghbf1  
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 4 219606.20168673  
 324019.54638495 1.0 no\_ghbf2  
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 5 221825.0 326713.0 1.0  
 no\_ghbf3

NUMBER OF FLOW-OBSERVATION GENERAL-HEAD-CELL GROUPS: 4  
 NUMBER OF CELLS IN GENERAL-HEAD-CELL GROUPS.....: 263  
 NUMBER OF GENERAL-HEAD-CELL FLOWS.....: 4

OBS1BAS6F -- OBSERVATION PROCESS (CONSTANT-HEAD BOUNDARY FLOW OBSERVATIONS)  
 VERSION 1.0, 12/03/99  
 INPUT READ FROM UNIT 55  
 # CoverageGUID ObjectType ID X Y Time OBNAME  
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 1 221706.7893717  
 324591.94949304 1.0 no\_chdf0  
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 11 219594.16804226  
 323688.6211621 1.0 no\_chdf1  
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 12 220080.0 323316.0 1.0  
 no\_chdf2  
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 2 219501.18238633  
 328416.68044872 1.0 no\_chdf3  
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 3 218869.23003934  
 327810.9157566 1.0 no\_chdf4  
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 4 219829.5 323290.0 1.0  
 no\_chdf5  
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 5 221825.0 326713.0 1.0  
 no\_chdf6  
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 6 219619.23539641  
 324377.97340138 1.0 no\_chdf7  
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 8 219282.05029394  
 325848.27101463 1.0 no\_chdf8  
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 9 220581.52416746  
 327592.41058298 1.0 no\_chdf9  
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 1 221706.7893717  
 324591.94949304 1.0 no\_chdf10  
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 11 219594.16804226  
 323688.6211621 1.0 no\_chdf11  
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 12 220080.0 323316.0 1.0  
 no\_chdf12

# DRAIN\_HIGHK.g1o

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#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 2 219501.18238633
328416.68044872 1.0 no_chdf13
#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 3 218869.23003934
327810.9157566 1.0 no_chdf14
#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 4 219829.5 323290.0 1.0
no_chdf15
#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 5 221825.0 326713.0 1.0
no_chdf16
#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 6 219619.23539641
324377.97340138 1.0 no_chdf17
#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 8 219282.05029394
325848.27101463 1.0 no_chdf18
#GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 9 220581.52416746
327592.41058298 1.0 no_chdf19
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NUMBER OF FLOW-OBSERVATION CONSTANT-HEAD-CELL GROUPS: 20
NUMBER OF CELLS IN CONSTANT-HEAD-CELL GROUPS.....: 752
NUMBER OF CONSTANT-HEAD-CELL FLOWS.....: 20
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9178 ELEMENTS IN X ARRAY ARE USED FOR OBSERVATIONS
702 ELEMENTS IN Z ARRAY ARE USED FOR OBSERVATIONS
273 ELEMENTS IN IX ARRAY ARE USED FOR OBSERVATIONS
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COMMON ERROR VARIANCE FOR ALL OBSERVATIONS SET TO: 1.000

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431700 ELEMENTS OF X ARRAY USED OUT OF 431700
300702 ELEMENTS OF Z ARRAY USED OUT OF 300702
9065 ELEMENTS OF IX ARRAY USED OUT OF 9065
0 ELEMENTS OF XHS ARRAY USED OUT OF 1
```

## INFORMATION ON PARAMETERS LISTED IN SEN FILE

NAME	ISENS	LN	VALUE IN SEN INPUT FILE	LOWER REASONABLE LIMIT	UPPER REASONABLE LIMIT	ALTERNATE SCALING FACTOR
HK_800	1	1	0.13479	0.10000E-02	20.000	1.0000
GHB_300	1	0	45.805	0.10000E-02	1000.0	1.0000
GHB_400	1	0	56.493	0.10000E-02	1000.0	1.0000

FOR THE PARAMETERS LISTED IN THE TABLE ABOVE, PARAMETER VALUES IN INDIVIDUAL PACKAGE INPUT FILES ARE REPLACED BY THE VALUES FROM THE SEN INPUT FILE. THE ALTERNATE SCALING FACTOR IS USED TO SCALE SENSITIVITIES IF IT IS LARGER THAN THE PARAMETER VALUE IN ABSOLUTE VALUE AND THE PARAMETER IS NOT LOG-TRANSFORMED.

BECAUSE ISENALL < 0, ALL ISENS ARE SET TO 0

HEAD OBSERVATION VARIANCES ARE MULTIPLIED BY: 1.000

OBSERVED HEAD DATA -- TIME OFFSETS ARE MULTIPLIED BY: 1.0000

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVATION	STATISTIC	STATISTIC TYPE	PLOT SYM.
1	hed1	1	0.000	3690.	1.531	STD. DEV.	1
2	hed2	1	0.000	3698.	1.531	STD. DEV.	1
3	hed3	1	0.000	3697.	1.531	STD. DEV.	1
4	hed4	1	0.000	3701.	1.531	STD. DEV.	1
5	hed5	1	0.000	3706.	1.531	STD. DEV.	1
6	hed6	1	0.000	3703.	1.531	STD. DEV.	1
7	hed7	1	0.000	3605.	1.531	STD. DEV.	1

HEAD CHANGE  
REFERENCE



OBS#	OBSERVATION NAME	LAY	ROW	COL	DRAIN_HIGHK.glo		OBSERVATION (IF > 0)
					ROW OFFSET	COL OFFSET	
1	hed1	5	32	73	0.135	-0.495	0
2	hed2	5	31	40	0.047	-0.250	0
3	hed3	5	55	47	0.419	0.246	0
4	hed4	5	65	61	0.060	-0.071	0
5	hed5	5	57	40	0.202	-0.377	0
6	hed6	5	81	53	0.268	-0.433	0
7	hed7	5	45	56	0.238	-0.498	0

DRAIN-CELL FLOW OBSERVATION VARIANCES ARE MULTIPLIED BY: 1.000

OBSERVED DRAIN-CELL FLOW DATA

-- TIME OFFSETS ARE MULTIPLIED BY: 1.0000

GROUP NUMBER: 1 BOUNDARY TYPE: DRN NUMBER OF CELLS IN GROUP: 432  
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED DRAIN FLOW GAIN (-)	STATISTIC	STATISTIC TYPE	PLOT SYM.
8	no_drnf0	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
2.	97.	46.	1.00
3.	97.	46.	1.00
4.	97.	46.	1.00
5.	97.	46.	1.00
2.	96.	46.	1.00
3.	96.	46.	1.00
4.	96.	46.	1.00
5.	96.	46.	1.00
2.	95.	46.	1.00
3.	95.	46.	1.00
4.	95.	46.	1.00
5.	95.	46.	1.00
2.	94.	46.	1.00
3.	94.	46.	1.00
4.	94.	46.	1.00
5.	94.	46.	1.00
2.	93.	46.	1.00
3.	93.	46.	1.00
4.	93.	46.	1.00
5.	93.	46.	1.00
2.	92.	46.	1.00
3.	92.	46.	1.00
4.	92.	46.	1.00
5.	92.	46.	1.00
2.	91.	46.	1.00
3.	91.	46.	1.00
4.	91.	46.	1.00
5.	91.	46.	1.00
2.	90.	46.	1.00
3.	90.	46.	1.00
4.	90.	46.	1.00
5.	90.	46.	1.00
2.	89.	46.	1.00
3.	89.	46.	1.00
4.	89.	46.	1.00
5.	89.	46.	1.00
2.	88.	46.	1.00
3.	88.	46.	1.00
4.	88.	46.	1.00

DRAIN\_HIGHK.g1o

5.	88.	46.	1.00
2.	87.	46.	1.00
3.	87.	46.	1.00
4.	87.	46.	1.00
5.	87.	46.	1.00
2.	87.	47.	1.00
3.	87.	47.	1.00
4.	87.	47.	1.00
5.	87.	47.	1.00
2.	86.	47.	1.00
3.	86.	47.	1.00
4.	86.	47.	1.00
5.	86.	47.	1.00
2.	86.	48.	1.00
3.	86.	48.	1.00
4.	86.	48.	1.00
5.	86.	48.	1.00
2.	86.	49.	1.00
3.	86.	49.	1.00
4.	86.	49.	1.00
5.	86.	49.	1.00
2.	86.	50.	1.00
3.	86.	50.	1.00
4.	86.	50.	1.00
5.	86.	50.	1.00
2.	86.	51.	1.00
3.	86.	51.	1.00
4.	86.	51.	1.00
5.	86.	51.	1.00
2.	85.	51.	1.00
3.	85.	51.	1.00
4.	85.	51.	1.00
5.	85.	51.	1.00
2.	85.	52.	1.00
3.	85.	52.	1.00
4.	85.	52.	1.00
5.	85.	52.	1.00
2.	85.	53.	1.00
3.	85.	53.	1.00
4.	85.	53.	1.00
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5.	84.	56.	1.00
2.	84.	57.	1.00
3.	84.	57.	1.00
4.	84.	57.	1.00
5.	84.	57.	1.00
2.	83.	57.	1.00
3.	83.	57.	1.00

## DRAIN\_HIGHK.g1o

4.	83.	57.	1.00
5.	83.	57.	1.00
2.	83.	58.	1.00
3.	83.	58.	1.00
4.	83.	58.	1.00
5.	83.	58.	1.00
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3.	82.	58.	1.00
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3.	81.	58.	1.00
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4.	81.	59.	1.00
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2.	73.	62.	1.00
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4.	73.	62.	1.00
5.	73.	62.	1.00
2.	72.	62.	1.00

## DRAIN\_HIGHK.g1o

3.	72.	62.	1.00
4.	72.	62.	1.00
5.	72.	62.	1.00
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3.	72.	63.	1.00
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5.	72.	63.	1.00
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5.	77.	71.	1.00
2.	76.	71.	1.00
3.	76.	71.	1.00
4.	76.	71.	1.00
5.	76.	71.	1.00

DRAIN\_HIGHK.g1o

2.	76.	72.	1.00
3.	76.	72.	1.00
4.	76.	72.	1.00
5.	76.	72.	1.00
2.	76.	73.	1.00
3.	76.	73.	1.00
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5.	76.	73.	1.00
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4.	75.	73.	1.00
5.	75.	73.	1.00
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3.	75.	74.	1.00
4.	75.	74.	1.00
5.	75.	74.	1.00
2.	75.	75.	1.00
3.	75.	75.	1.00
4.	75.	75.	1.00
5.	75.	75.	1.00
2.	74.	75.	1.00
3.	74.	75.	1.00
4.	74.	75.	1.00
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2.	74.	76.	1.00
3.	74.	76.	1.00
4.	74.	76.	1.00
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2.	74.	77.	1.00
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2.	70.	81.	1.00
3.	70.	81.	1.00
4.	70.	81.	1.00

			DRAIN_HIGHK.g1o
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2.	69.	81.	1.00
3.	69.	81.	1.00
4.	69.	81.	1.00
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4.	68.	81.	1.00
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4.	67.	81.	1.00
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4.	65.	81.	1.00
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4.	59.	81.	1.00
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2.	58.	81.	1.00
3.	58.	81.	1.00
4.	58.	81.	1.00
5.	58.	81.	1.00
2.	57.	81.	1.00
3.	57.	81.	1.00
4.	57.	81.	1.00
5.	57.	81.	1.00
2.	56.	81.	1.00
3.	56.	81.	1.00
4.	56.	81.	1.00
5.	56.	81.	1.00
2.	55.	81.	1.00
3.	55.	81.	1.00
4.	55.	81.	1.00
5.	55.	81.	1.00
2.	55.	82.	1.00
3.	55.	82.	1.00

DRAIN\_HIGHK.g1o

4.	55.	82.	1.00
5.	55.	82.	1.00
2.	54.	82.	1.00
3.	54.	82.	1.00
4.	54.	82.	1.00
5.	54.	82.	1.00
2.	54.	83.	1.00
3.	54.	83.	1.00
4.	54.	83.	1.00
5.	54.	83.	1.00
2.	53.	83.	1.00
3.	53.	83.	1.00
4.	53.	83.	1.00
5.	53.	83.	1.00
2.	53.	84.	1.00
3.	53.	84.	1.00
4.	53.	84.	1.00
5.	53.	84.	1.00
2.	53.	85.	1.00
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5.	53.	85.	1.00
2.	52.	85.	1.00
3.	52.	85.	1.00
4.	52.	85.	1.00
5.	52.	85.	1.00
2.	52.	86.	1.00
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4.	52.	86.	1.00
5.	52.	86.	1.00
2.	51.	86.	1.00
3.	51.	86.	1.00
4.	51.	86.	1.00
5.	51.	86.	1.00
2.	51.	87.	1.00
3.	51.	87.	1.00
4.	51.	87.	1.00
5.	51.	87.	1.00
2.	51.	88.	1.00
3.	51.	88.	1.00
4.	51.	88.	1.00
5.	51.	88.	1.00
2.	50.	88.	1.00
3.	50.	88.	1.00
4.	50.	88.	1.00
5.	50.	88.	1.00
2.	50.	89.	1.00
3.	50.	89.	1.00
4.	50.	89.	1.00
5.	50.	89.	1.00
2.	49.	89.	1.00
3.	49.	89.	1.00
4.	49.	89.	1.00
5.	49.	89.	1.00
2.	49.	90.	1.00
3.	49.	90.	1.00
4.	49.	90.	1.00
5.	49.	90.	1.00
2.	48.	90.	1.00
3.	48.	90.	1.00
4.	48.	90.	1.00
5.	48.	90.	1.00
2.	48.	91.	1.00

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3.	48.	91.	1.00
4.	48.	91.	1.00
5.	48.	91.	1.00
2.	48.	92.	1.00
3.	48.	92.	1.00
4.	48.	92.	1.00
5.	48.	92.	1.00
2.	47.	92.	1.00
3.	47.	92.	1.00
4.	47.	92.	1.00
5.	47.	92.	1.00
2.	47.	93.	1.00
3.	47.	93.	1.00
4.	47.	93.	1.00
5.	47.	93.	1.00

GENERAL-HEAD-CELL FLOW OBSERVATION VARIANCES ARE MULTIPLIED BY: 1.000

OBSERVED GENERAL-HEAD-CELL FLOW DATA

-- TIME OFFSETS ARE MULTIPLIED BY: 1.0000

GROUP NUMBER: 2 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP: 79  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
9	no_ghbf0	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
5.	18.	74.	1.00
5.	18.	73.	1.00
5.	18.	72.	1.00
5.	18.	71.	1.00
5.	18.	70.	1.00
5.	18.	69.	1.00
5.	18.	68.	1.00
5.	18.	67.	1.00
5.	17.	67.	1.00
5.	17.	66.	1.00
5.	17.	65.	1.00
5.	17.	64.	1.00
5.	17.	63.	1.00
5.	17.	62.	1.00
5.	17.	61.	1.00
5.	17.	60.	1.00
5.	17.	59.	1.00
5.	17.	58.	1.00
5.	17.	57.	1.00
5.	17.	56.	1.00
5.	16.	56.	1.00
5.	15.	56.	1.00
5.	14.	56.	1.00
5.	13.	56.	1.00
5.	13.	57.	1.00
5.	12.	57.	1.00
5.	11.	57.	1.00
5.	10.	57.	1.00
5.	9.	57.	1.00
5.	8.	57.	1.00
5.	7.	57.	1.00
5.	6.	57.	1.00



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5.	5.	57.	1.00
5.	4.	57.	1.00
5.	3.	57.	1.00
5.	3.	56.	1.00
5.	3.	55.	1.00
5.	3.	54.	1.00
5.	3.	53.	1.00
5.	3.	52.	1.00
5.	3.	51.	1.00
5.	3.	50.	1.00
5.	3.	49.	1.00
5.	3.	48.	1.00
5.	3.	47.	1.00
5.	3.	46.	1.00
5.	3.	45.	1.00
5.	3.	44.	1.00
5.	3.	43.	1.00
5.	3.	42.	1.00
5.	3.	41.	1.00
5.	3.	40.	1.00
5.	3.	39.	1.00
5.	3.	38.	1.00
5.	3.	37.	1.00
5.	3.	36.	1.00
5.	3.	35.	1.00
5.	3.	34.	1.00
5.	2.	34.	1.00
5.	2.	33.	1.00
5.	2.	32.	1.00
5.	2.	31.	1.00
5.	2.	30.	1.00
5.	2.	29.	1.00
5.	2.	28.	1.00
5.	2.	27.	1.00
5.	2.	26.	1.00
5.	2.	25.	1.00
5.	2.	24.	1.00
5.	2.	23.	1.00
5.	2.	22.	1.00
5.	2.	21.	1.00
5.	2.	20.	1.00
5.	2.	19.	1.00
5.	2.	18.	1.00
5.	2.	17.	1.00
5.	2.	16.	1.00
5.	2.	15.	1.00
5.	2.	14.	1.00

GROUP NUMBER: 3 BOUNDARY TYPE: GHb NUMBER OF CELLS IN GROUP: 83  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
10	no_ghbf1	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	5.	66.	28.	1.00			
	5.	65.	28.	1.00			
	5.	64.	28.	1.00			
	5.	63.	28.	1.00			
	5.	62.	28.	1.00			

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5.	61.	28.	1.00
5.	61.	29.	1.00
5.	60.	29.	1.00
5.	59.	29.	1.00
5.	58.	29.	1.00
5.	57.	29.	1.00
5.	56.	29.	1.00
5.	55.	29.	1.00
5.	54.	29.	1.00
5.	53.	29.	1.00
5.	52.	29.	1.00
5.	51.	29.	1.00
5.	50.	29.	1.00
5.	49.	29.	1.00
5.	48.	29.	1.00
5.	47.	29.	1.00
5.	46.	29.	1.00
5.	45.	29.	1.00
5.	45.	30.	1.00
5.	44.	30.	1.00
5.	43.	30.	1.00
5.	42.	30.	1.00
5.	41.	30.	1.00
5.	40.	30.	1.00
5.	39.	30.	1.00
5.	38.	30.	1.00
5.	37.	30.	1.00
5.	36.	30.	1.00
5.	35.	30.	1.00
5.	34.	30.	1.00
5.	33.	30.	1.00
5.	32.	30.	1.00
5.	31.	30.	1.00
5.	30.	30.	1.00
5.	29.	30.	1.00
5.	29.	29.	1.00
5.	28.	29.	1.00
5.	27.	29.	1.00
5.	27.	28.	1.00
5.	26.	28.	1.00
5.	26.	27.	1.00
5.	25.	27.	1.00
5.	24.	27.	1.00
5.	24.	26.	1.00
5.	23.	26.	1.00
5.	22.	26.	1.00
5.	22.	25.	1.00
5.	21.	25.	1.00
5.	20.	25.	1.00
5.	20.	24.	1.00
5.	19.	24.	1.00
5.	18.	24.	1.00
5.	18.	23.	1.00
5.	17.	23.	1.00
5.	17.	22.	1.00
5.	16.	22.	1.00
5.	15.	22.	1.00
5.	15.	21.	1.00
5.	14.	21.	1.00
5.	13.	21.	1.00
5.	13.	20.	1.00
5.	12.	20.	1.00
5.	11.	20.	1.00

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5.	11.	19.	1.00
5.	10.	19.	1.00
5.	9.	19.	1.00
5.	9.	18.	1.00
5.	8.	18.	1.00
5.	8.	17.	1.00
5.	7.	17.	1.00
5.	6.	17.	1.00
5.	6.	16.	1.00
5.	5.	16.	1.00
5.	4.	16.	1.00
5.	4.	15.	1.00
5.	3.	15.	1.00
5.	2.	15.	1.00
5.	2.	14.	1.00

GROUP NUMBER: 4 BOUNDARY TYPE: GHb NUMBER OF CELLS IN GROUP: 52  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
11	no_ghbf2	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
5.	97.	46.	1.00
5.	97.	45.	1.00
5.	96.	45.	1.00
5.	96.	44.	1.00
5.	95.	44.	1.00
5.	95.	43.	1.00
5.	94.	43.	1.00
5.	94.	42.	1.00
5.	93.	42.	1.00
5.	93.	41.	1.00
5.	92.	41.	1.00
5.	92.	40.	1.00
5.	91.	40.	1.00
5.	91.	39.	1.00
5.	90.	39.	1.00
5.	90.	38.	1.00
5.	89.	38.	1.00
5.	89.	37.	1.00
5.	88.	37.	1.00
5.	88.	36.	1.00
5.	87.	36.	1.00
5.	86.	36.	1.00
5.	85.	36.	1.00
5.	84.	36.	1.00
5.	83.	36.	1.00
5.	82.	36.	1.00
5.	81.	36.	1.00
5.	80.	36.	1.00
5.	79.	36.	1.00
5.	78.	36.	1.00
5.	77.	36.	1.00
5.	76.	36.	1.00
5.	75.	36.	1.00
5.	74.	36.	1.00
5.	73.	36.	1.00
5.	72.	36.	1.00
5.	72.	37.	1.00

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5.	71.	37.	1.00
5.	70.	37.	1.00
5.	69.	37.	1.00
5.	68.	37.	1.00
5.	67.	37.	1.00
5.	66.	37.	1.00
5.	66.	36.	1.00
5.	66.	35.	1.00
5.	66.	34.	1.00
5.	66.	33.	1.00
5.	66.	32.	1.00
5.	66.	31.	1.00
5.	66.	30.	1.00
5.	66.	29.	1.00
5.	66.	28.	1.00

GROUP NUMBER: 5 BOUNDARY TYPE: GHb NUMBER OF CELLS IN GROUP: 49  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
12	no_ghbf3	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
5.	47.	93.	1.00
5.	47.	92.	1.00
5.	46.	92.	1.00
5.	45.	92.	1.00
5.	45.	91.	1.00
5.	44.	91.	1.00
5.	44.	90.	1.00
5.	43.	90.	1.00
5.	42.	90.	1.00
5.	42.	89.	1.00
5.	41.	89.	1.00
5.	41.	88.	1.00
5.	40.	88.	1.00
5.	39.	88.	1.00
5.	39.	87.	1.00
5.	38.	87.	1.00
5.	38.	86.	1.00
5.	37.	86.	1.00
5.	36.	86.	1.00
5.	36.	85.	1.00
5.	35.	85.	1.00
5.	35.	84.	1.00
5.	34.	84.	1.00
5.	33.	84.	1.00
5.	33.	83.	1.00
5.	32.	83.	1.00
5.	32.	82.	1.00
5.	31.	82.	1.00
5.	30.	82.	1.00
5.	30.	81.	1.00
5.	29.	81.	1.00
5.	29.	80.	1.00
5.	28.	80.	1.00
5.	27.	80.	1.00
5.	27.	79.	1.00
5.	26.	79.	1.00
5.	25.	79.	1.00

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5.	25.	78.	1.00
5.	24.	78.	1.00
5.	24.	77.	1.00
5.	23.	77.	1.00
5.	22.	77.	1.00
5.	22.	76.	1.00
5.	21.	76.	1.00
5.	21.	75.	1.00
5.	20.	75.	1.00
5.	19.	75.	1.00
5.	19.	74.	1.00
5.	18.	74.	1.00

CONSTANT-HEAD-CELL FLOW OBSERVATION VARIANCES ARE MULTIPLIED BY: 1.000

OBSERVED CONSTANT-HEAD-CELL FLOW DATA  
 -- TIME OFFSETS ARE MULTIPLIED BY: 1.0000

GROUP NUMBER: 6 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 98  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
13	no_chdf0	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	47.	93.	0.19			
	1.	47.	92.	0.31			
	1.	48.	92.	0.50			
	1.	48.	91.	0.50			
	1.	48.	90.	0.50			
	1.	49.	90.	0.50			
	1.	49.	89.	0.50			
	1.	50.	89.	0.50			
	1.	50.	88.	0.50			
	1.	51.	88.	0.50			
	1.	51.	87.	0.50			
	1.	51.	86.	0.50			
	1.	52.	86.	0.50			
	1.	52.	85.	0.50			
	1.	53.	85.	0.50			
	1.	53.	84.	0.50			
	1.	53.	83.	0.50			
	1.	54.	83.	0.50			
	1.	54.	82.	0.50			
	1.	55.	82.	0.50			
	1.	55.	81.	0.50			
	1.	56.	81.	0.50			
	1.	57.	81.	0.50			
	1.	58.	81.	0.50			
	1.	59.	81.	0.50			
	1.	60.	81.	0.50			
	1.	61.	81.	0.50			
	1.	62.	81.	0.50			
	1.	63.	81.	0.50			
	1.	64.	81.	0.50			
	1.	65.	81.	0.50			
	1.	66.	81.	0.50			
	1.	67.	81.	0.50			
	1.	68.	81.	0.50			
	1.	69.	81.	0.50			

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1.	70.	81.	0.50
1.	70.	80.	0.50
1.	71.	80.	0.50
1.	72.	80.	0.50
1.	73.	80.	0.50
1.	73.	79.	0.50
1.	73.	78.	0.50
1.	74.	78.	0.50
1.	74.	77.	0.50
1.	74.	76.	0.50
1.	74.	75.	0.50
1.	75.	75.	0.50
1.	75.	74.	0.50
1.	75.	73.	0.50
1.	76.	73.	0.50
1.	76.	72.	0.50
1.	76.	71.	0.50
1.	77.	71.	0.50
1.	77.	70.	0.50
1.	77.	69.	0.50
1.	77.	68.	0.50
1.	77.	67.	0.50
1.	76.	67.	0.50
1.	76.	66.	0.50
1.	75.	66.	0.50
1.	75.	65.	0.50
1.	74.	65.	0.50
1.	73.	65.	0.50
1.	73.	64.	0.50
1.	72.	64.	0.50
1.	72.	63.	0.50
1.	72.	62.	0.50
1.	73.	62.	0.50
1.	73.	61.	0.50
1.	74.	61.	0.50
1.	75.	61.	0.50
1.	76.	61.	0.50
1.	76.	60.	0.50
1.	77.	60.	0.50
1.	78.	60.	0.50
1.	78.	59.	0.50
1.	79.	59.	0.50
1.	80.	59.	0.50
1.	81.	59.	0.50
1.	81.	58.	0.50
1.	82.	58.	0.50
1.	83.	58.	0.50
1.	83.	57.	0.50
1.	84.	57.	0.50
1.	84.	56.	0.50
1.	84.	55.	0.50
1.	85.	55.	0.50
1.	85.	54.	0.50
1.	85.	53.	0.50
1.	85.	52.	0.50
1.	85.	51.	0.50
1.	86.	51.	0.50
1.	86.	50.	0.50
1.	86.	49.	0.50
1.	86.	48.	0.50
1.	86.	47.	0.50
1.	87.	47.	0.50
1.	87.	46.	0.04

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GROUP NUMBER: 7 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 5  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
14	no_chdf1	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	83.	36.	0.03			
	1.	84.	36.	0.51			
	1.	85.	36.	0.51			
	1.	86.	36.	0.51			
	1.	87.	36.	0.48			

GROUP NUMBER: 8 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 11  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
15	no_chdf2	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	87.	46.	0.46			
	1.	88.	46.	0.50			
	1.	89.	46.	0.50			
	1.	90.	46.	0.50			
	1.	91.	46.	0.50			
	1.	92.	46.	0.50			
	1.	93.	46.	0.50			
	1.	94.	46.	0.50			
	1.	95.	46.	0.50			
	1.	96.	46.	0.50			
	1.	97.	46.	0.31			

GROUP NUMBER: 9 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 42  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
16	no_chdf3	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	2.	14.	0.15			
	1.	2.	15.	0.33			
	1.	2.	16.	0.50			
	1.	2.	17.	0.50			
	1.	2.	18.	0.50			
	1.	2.	19.	0.50			
	1.	2.	20.	0.50			
	1.	2.	21.	0.50			
	1.	2.	22.	0.50			
	1.	2.	23.	0.50			
	1.	2.	24.	0.50			
	1.	2.	25.	0.50			
	1.	2.	26.	0.50			
	1.	2.	27.	0.50			

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1.	2.	28.	0.50
1.	2.	29.	0.50
1.	2.	30.	0.50
1.	2.	31.	0.50
1.	2.	32.	0.50
1.	2.	33.	0.50
1.	2.	34.	0.50
1.	3.	34.	0.50
1.	3.	35.	0.50
1.	3.	36.	0.50
1.	3.	37.	0.50
1.	3.	38.	0.50
1.	3.	39.	0.50
1.	3.	40.	0.50
1.	3.	41.	0.50
1.	3.	42.	0.50
1.	3.	43.	0.50
1.	3.	44.	0.50
1.	3.	45.	0.50
1.	3.	46.	0.50
1.	3.	47.	0.50
1.	3.	48.	0.50
1.	3.	49.	0.50
1.	3.	50.	0.50
1.	3.	51.	0.50
1.	3.	52.	0.50
1.	3.	53.	0.50
1.	3.	54.	0.03

GROUP NUMBER: 10    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 36  
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
17	no_chdf4	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	2.	14.	0.35			
	1.	2.	15.	0.17			
	1.	3.	15.	0.50			
	1.	4.	15.	0.50			
	1.	4.	16.	0.50			
	1.	5.	16.	0.50			
	1.	6.	16.	0.50			
	1.	6.	17.	0.50			
	1.	7.	17.	0.50			
	1.	8.	17.	0.50			
	1.	8.	18.	0.50			
	1.	9.	18.	0.50			
	1.	9.	19.	0.50			
	1.	10.	19.	0.50			
	1.	11.	19.	0.50			
	1.	11.	20.	0.50			
	1.	12.	20.	0.50			
	1.	13.	20.	0.50			
	1.	13.	21.	0.50			
	1.	14.	21.	0.50			
	1.	15.	21.	0.50			
	1.	15.	22.	0.50			
	1.	16.	22.	0.50			
	1.	17.	22.	0.50			



DRAIN\_HIGHK.g1o

1.	17.	23.	0.50
1.	18.	23.	0.50
1.	18.	24.	0.50
1.	19.	24.	0.50
1.	20.	24.	0.50
1.	20.	25.	0.50
1.	21.	25.	0.50
1.	22.	25.	0.50
1.	22.	26.	0.50
1.	23.	26.	0.50
1.	24.	26.	0.50
1.	24.	27.	0.48

GROUP NUMBER: 11    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 21  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
18	no_chdf5	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	87.	36.	0.03			
	1.	88.	36.	0.51			
	1.	88.	37.	0.51			
	1.	89.	37.	0.50			
	1.	89.	38.	0.50			
	1.	90.	38.	0.50			
	1.	90.	39.	0.50			
	1.	91.	39.	0.50			
	1.	91.	40.	0.50			
	1.	92.	40.	0.50			
	1.	92.	41.	0.50			
	1.	93.	41.	0.50			
	1.	93.	42.	0.50			
	1.	94.	42.	0.50			
	1.	94.	43.	0.50			
	1.	95.	43.	0.50			
	1.	95.	44.	0.50			
	1.	96.	44.	0.50			
	1.	96.	45.	0.50			
	1.	97.	45.	0.50			
	1.	97.	46.	0.19			

GROUP NUMBER: 12    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 49  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
19	no_chdf6	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	18.	74.	0.49			
	1.	19.	74.	0.50			
	1.	19.	75.	0.50			
	1.	20.	75.	0.50			
	1.	21.	75.	0.50			
	1.	21.	76.	0.50			
	1.	22.	76.	0.50			
	1.	22.	77.	0.50			

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1.	23.	77.	0.50
1.	24.	77.	0.50
1.	24.	78.	0.50
1.	25.	78.	0.50
1.	25.	79.	0.50
1.	26.	79.	0.50
1.	27.	79.	0.50
1.	27.	80.	0.50
1.	28.	80.	0.50
1.	29.	80.	0.50
1.	29.	81.	0.50
1.	30.	81.	0.50
1.	30.	82.	0.50
1.	31.	82.	0.50
1.	32.	82.	0.50
1.	32.	83.	0.50
1.	33.	83.	0.50
1.	33.	84.	0.50
1.	34.	84.	0.50
1.	35.	84.	0.50
1.	35.	85.	0.50
1.	36.	85.	0.50
1.	36.	86.	0.50
1.	37.	86.	0.50
1.	38.	86.	0.50
1.	38.	87.	0.50
1.	39.	87.	0.50
1.	39.	88.	0.50
1.	40.	88.	0.50
1.	41.	88.	0.50
1.	41.	89.	0.50
1.	42.	89.	0.50
1.	42.	90.	0.50
1.	43.	90.	0.50
1.	44.	90.	0.50
1.	44.	91.	0.50
1.	45.	91.	0.50
1.	45.	92.	0.50
1.	46.	92.	0.50
1.	47.	92.	0.19
1.	47.	93.	0.30

GROUP NUMBER: 13    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 28  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
20	no_chdf7	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	66.	28.	0.27			
	1.	66.	29.	0.50			
	1.	66.	30.	0.50			
	1.	66.	31.	0.50			
	1.	66.	32.	0.50			
	1.	66.	33.	0.50			
	1.	66.	34.	0.50			
	1.	66.	35.	0.50			
	1.	66.	36.	0.50			
	1.	66.	37.	0.50			
	1.	67.	37.	0.50			

DRAIN\_HIGHK.g1o

1.	68.	37.	0.50
1.	69.	37.	0.50
1.	70.	37.	0.50
1.	71.	37.	0.50
1.	72.	37.	0.50
1.	72.	36.	0.50
1.	73.	36.	0.50
1.	74.	36.	0.50
1.	75.	36.	0.50
1.	76.	36.	0.50
1.	77.	36.	0.50
1.	78.	36.	0.50
1.	79.	36.	0.50
1.	80.	36.	0.50
1.	81.	36.	0.50
1.	82.	36.	0.51
1.	83.	36.	0.47

GROUP NUMBER: 14    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 48  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
21	no_chdf8	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	24.	27.	0.02
1.	25.	27.	0.50
1.	26.	27.	0.50
1.	26.	28.	0.50
1.	27.	28.	0.50
1.	27.	29.	0.50
1.	28.	29.	0.50
1.	29.	29.	0.50
1.	29.	30.	0.50
1.	30.	30.	0.50
1.	31.	30.	0.50
1.	32.	30.	0.50
1.	33.	30.	0.50
1.	34.	30.	0.50
1.	35.	30.	0.50
1.	36.	30.	0.50
1.	37.	30.	0.50
1.	38.	30.	0.50
1.	39.	30.	0.50
1.	40.	30.	0.50
1.	41.	30.	0.50
1.	42.	30.	0.50
1.	43.	30.	0.50
1.	44.	30.	0.50
1.	45.	30.	0.50
1.	45.	29.	0.50
1.	46.	29.	0.50
1.	47.	29.	0.50
1.	48.	29.	0.50
1.	49.	29.	0.50
1.	50.	29.	0.50
1.	51.	29.	0.50
1.	52.	29.	0.50
1.	53.	29.	0.50
1.	54.	29.	0.50

DRAIN\_HIGHK.g1o

1.	55.	29.	0.50
1.	56.	29.	0.50
1.	57.	29.	0.50
1.	58.	29.	0.50
1.	59.	29.	0.50
1.	60.	29.	0.50
1.	61.	29.	0.50
1.	61.	28.	0.50
1.	62.	28.	0.50
1.	63.	28.	0.50
1.	64.	28.	0.50
1.	65.	28.	0.50
1.	66.	28.	0.23

GROUP NUMBER: 15    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 38  
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
22	no_chdf9	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	3.	54.	0.47			
	1.	3.	55.	0.50			
	1.	3.	56.	0.50			
	1.	3.	57.	0.50			
	1.	4.	57.	0.50			
	1.	5.	57.	0.50			
	1.	6.	57.	0.50			
	1.	7.	57.	0.50			
	1.	8.	57.	0.50			
	1.	9.	57.	0.50			
	1.	10.	57.	0.50			
	1.	11.	57.	0.50			
	1.	12.	57.	0.50			
	1.	13.	57.	0.50			
	1.	13.	56.	0.50			
	1.	14.	56.	0.50			
	1.	15.	56.	0.50			
	1.	16.	56.	0.50			
	1.	17.	56.	0.50			
	1.	17.	57.	0.50			
	1.	17.	58.	0.50			
	1.	17.	59.	0.50			
	1.	17.	60.	0.50			
	1.	17.	61.	0.50			
	1.	17.	62.	0.50			
	1.	17.	63.	0.50			
	1.	17.	64.	0.50			
	1.	17.	65.	0.50			
	1.	17.	66.	0.50			
	1.	17.	67.	0.50			
	1.	18.	67.	0.50			
	1.	18.	68.	0.50			
	1.	18.	69.	0.50			
	1.	18.	70.	0.50			
	1.	18.	71.	0.50			
	1.	18.	72.	0.50			
	1.	18.	73.	0.50			
	1.	18.	74.	0.01			

DRAIN\_HIGHK.g1o

GROUP NUMBER: 16    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 98  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
23	no_chdf10	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	47.	93.	0.20
1.	47.	92.	0.31
1.	48.	92.	0.50
1.	48.	91.	0.50
1.	48.	90.	0.50
1.	49.	90.	0.50
1.	49.	89.	0.50
1.	50.	89.	0.50
1.	50.	88.	0.50
1.	51.	88.	0.50
1.	51.	87.	0.50
1.	51.	86.	0.50
1.	52.	86.	0.50
1.	52.	85.	0.50
1.	53.	85.	0.50
1.	53.	84.	0.50
1.	53.	83.	0.50
1.	54.	83.	0.50
1.	54.	82.	0.50
1.	55.	82.	0.50
1.	55.	81.	0.50
1.	56.	81.	0.50
1.	57.	81.	0.50
1.	58.	81.	0.50
1.	59.	81.	0.50
1.	60.	81.	0.50
1.	61.	81.	0.50
1.	62.	81.	0.50
1.	63.	81.	0.50
1.	64.	81.	0.50
1.	65.	81.	0.50
1.	66.	81.	0.50
1.	67.	81.	0.50
1.	68.	81.	0.50
1.	69.	81.	0.50
1.	70.	81.	0.50
1.	70.	80.	0.50
1.	71.	80.	0.50
1.	72.	80.	0.50
1.	73.	80.	0.50
1.	73.	79.	0.50
1.	73.	78.	0.50
1.	74.	78.	0.50
1.	74.	77.	0.50
1.	74.	76.	0.50
1.	74.	75.	0.50
1.	75.	75.	0.50
1.	75.	74.	0.50
1.	75.	73.	0.50
1.	76.	73.	0.50
1.	76.	72.	0.50
1.	76.	71.	0.50
1.	77.	71.	0.50

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1.	77.	70.	0.50
1.	77.	69.	0.50
1.	77.	68.	0.50
1.	77.	67.	0.50
1.	76.	67.	0.50
1.	76.	66.	0.50
1.	75.	66.	0.50
1.	75.	65.	0.50
1.	74.	65.	0.50
1.	73.	65.	0.50
1.	73.	64.	0.50
1.	72.	64.	0.50
1.	72.	63.	0.50
1.	72.	62.	0.50
1.	73.	62.	0.50
1.	73.	61.	0.50
1.	74.	61.	0.50
1.	75.	61.	0.50
1.	76.	61.	0.50
1.	76.	60.	0.50
1.	77.	60.	0.50
1.	78.	60.	0.50
1.	78.	59.	0.50
1.	79.	59.	0.50
1.	80.	59.	0.50
1.	81.	59.	0.50
1.	81.	58.	0.50
1.	82.	58.	0.50
1.	83.	58.	0.50
1.	83.	57.	0.50
1.	84.	57.	0.50
1.	84.	56.	0.50
1.	84.	55.	0.50
1.	85.	55.	0.50
1.	85.	54.	0.50
1.	85.	53.	0.50
1.	85.	52.	0.50
1.	85.	51.	0.50
1.	86.	51.	0.50
1.	86.	50.	0.50
1.	86.	49.	0.50
1.	86.	48.	0.50
1.	86.	47.	0.50
1.	87.	47.	0.50
1.	87.	46.	0.04

GROUP NUMBER: 17    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 5  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
24	no_chdf11	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	83.	36.	0.03
1.	84.	36.	0.49
1.	85.	36.	0.49
1.	86.	36.	0.49
1.	87.	36.	0.47

GROUP NUMBER: 18    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 11  
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DRAIN\_HIGHK.g1o  
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
25	no_chdf12	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	87.	46.	0.45			
	1.	88.	46.	0.50			
	1.	89.	46.	0.50			
	1.	90.	46.	0.50			
	1.	91.	46.	0.50			
	1.	92.	46.	0.50			
	1.	93.	46.	0.50			
	1.	94.	46.	0.50			
	1.	95.	46.	0.50			
	1.	96.	46.	0.50			
	1.	97.	46.	0.31			

GROUP NUMBER: 19 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 42  
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
26	no_chdf13	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	2.	14.	0.15			
	1.	2.	15.	0.33			
	1.	2.	16.	0.50			
	1.	2.	17.	0.50			
	1.	2.	18.	0.50			
	1.	2.	19.	0.50			
	1.	2.	20.	0.50			
	1.	2.	21.	0.50			
	1.	2.	22.	0.50			
	1.	2.	23.	0.50			
	1.	2.	24.	0.50			
	1.	2.	25.	0.50			
	1.	2.	26.	0.50			
	1.	2.	27.	0.50			
	1.	2.	28.	0.50			
	1.	2.	29.	0.50			
	1.	2.	30.	0.50			
	1.	2.	31.	0.50			
	1.	2.	32.	0.50			
	1.	2.	33.	0.50			
	1.	2.	34.	0.50			
	1.	3.	34.	0.50			
	1.	3.	35.	0.50			
	1.	3.	36.	0.50			
	1.	3.	37.	0.50			
	1.	3.	38.	0.50			
	1.	3.	39.	0.50			
	1.	3.	40.	0.50			
	1.	3.	41.	0.50			
	1.	3.	42.	0.50			
	1.	3.	43.	0.50			
	1.	3.	44.	0.50			

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1.	3.	45.	0.50
1.	3.	46.	0.50
1.	3.	47.	0.50
1.	3.	48.	0.50
1.	3.	49.	0.50
1.	3.	50.	0.50
1.	3.	51.	0.50
1.	3.	52.	0.50
1.	3.	53.	0.50
1.	3.	54.	0.03

GROUP NUMBER: 20    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 36  
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
27	no_chdf14	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	2.	14.	0.35
1.	2.	15.	0.17
1.	3.	15.	0.50
1.	4.	15.	0.50
1.	4.	16.	0.50
1.	5.	16.	0.50
1.	6.	16.	0.50
1.	6.	17.	0.50
1.	7.	17.	0.50
1.	8.	17.	0.50
1.	8.	18.	0.50
1.	9.	18.	0.50
1.	9.	19.	0.50
1.	10.	19.	0.50
1.	11.	19.	0.50
1.	11.	20.	0.50
1.	12.	20.	0.50
1.	13.	20.	0.50
1.	13.	21.	0.50
1.	14.	21.	0.50
1.	15.	21.	0.50
1.	15.	22.	0.50
1.	16.	22.	0.50
1.	17.	22.	0.50
1.	17.	23.	0.50
1.	18.	23.	0.50
1.	18.	24.	0.50
1.	19.	24.	0.50
1.	20.	24.	0.50
1.	20.	25.	0.50
1.	21.	25.	0.50
1.	22.	25.	0.50
1.	22.	26.	0.50
1.	23.	26.	0.50
1.	24.	26.	0.50
1.	24.	27.	0.48

GROUP NUMBER: 21    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 21  
NUMBER OF FLOW OBSERVATIONS: 1

REFER.	OBSERVED BOUNDARY FLOW
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OBS#	OBSERVATION NAME	STRESS PERIOD	TIME OFFSET	DRAIN_HIGHK.g1o GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
28	no_chdf15	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	87.	36.	0.03			
	1.	88.	36.	0.49			
	1.	88.	37.	0.49			
	1.	89.	37.	0.50			
	1.	89.	38.	0.50			
	1.	90.	38.	0.50			
	1.	90.	39.	0.50			
	1.	91.	39.	0.50			
	1.	91.	40.	0.50			
	1.	92.	40.	0.50			
	1.	92.	41.	0.50			
	1.	93.	41.	0.50			
	1.	93.	42.	0.50			
	1.	94.	42.	0.50			
	1.	94.	43.	0.50			
	1.	95.	43.	0.50			
	1.	95.	44.	0.50			
	1.	96.	44.	0.50			
	1.	96.	45.	0.50			
	1.	97.	45.	0.50			
	1.	97.	46.	0.19			

GROUP NUMBER: 22    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 49  
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
29	no_chdf16	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	18.	74.	0.49			
	1.	19.	74.	0.50			
	1.	19.	75.	0.50			
	1.	20.	75.	0.50			
	1.	21.	75.	0.50			
	1.	21.	76.	0.50			
	1.	22.	76.	0.50			
	1.	22.	77.	0.50			
	1.	23.	77.	0.50			
	1.	24.	77.	0.50			
	1.	24.	78.	0.50			
	1.	25.	78.	0.50			
	1.	25.	79.	0.50			
	1.	26.	79.	0.50			
	1.	27.	79.	0.50			
	1.	27.	80.	0.50			
	1.	28.	80.	0.50			
	1.	29.	80.	0.50			
	1.	29.	81.	0.50			
	1.	30.	81.	0.50			
	1.	30.	82.	0.50			
	1.	31.	82.	0.50			
	1.	32.	82.	0.50			
	1.	32.	83.	0.50			
	1.	33.	83.	0.50			
	1.	33.	84.	0.50			

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1.	34.	84.	0.50
1.	35.	84.	0.50
1.	35.	85.	0.50
1.	36.	85.	0.50
1.	36.	86.	0.50
1.	37.	86.	0.50
1.	38.	86.	0.50
1.	38.	87.	0.50
1.	39.	87.	0.50
1.	39.	88.	0.50
1.	40.	88.	0.50
1.	41.	88.	0.50
1.	41.	89.	0.50
1.	42.	89.	0.50
1.	42.	90.	0.50
1.	43.	90.	0.50
1.	44.	90.	0.50
1.	44.	91.	0.50
1.	45.	91.	0.50
1.	45.	92.	0.50
1.	46.	92.	0.50
1.	47.	92.	0.19
1.	47.	93.	0.31

GROUP NUMBER: 23    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 28  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
30	no_chdf17	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	66.	28.	0.27
1.	66.	29.	0.50
1.	66.	30.	0.50
1.	66.	31.	0.50
1.	66.	32.	0.50
1.	66.	33.	0.50
1.	66.	34.	0.50
1.	66.	35.	0.50
1.	66.	36.	0.50
1.	66.	37.	0.50
1.	67.	37.	0.50
1.	68.	37.	0.50
1.	69.	37.	0.50
1.	70.	37.	0.50
1.	71.	37.	0.50
1.	72.	37.	0.50
1.	72.	36.	0.50
1.	73.	36.	0.50
1.	74.	36.	0.50
1.	75.	36.	0.50
1.	76.	36.	0.50
1.	77.	36.	0.50
1.	78.	36.	0.50
1.	79.	36.	0.50
1.	80.	36.	0.50
1.	81.	36.	0.50
1.	82.	36.	0.49
1.	83.	36.	0.46

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GROUP NUMBER: 24    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 48  
 NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
31	no_chdf18	1	0.000	1.000	0.1000E+20	STD. DEV.	1
	LAYER	ROW	COLUMN	FACTOR			
	1.	24.	27.	0.02			
	1.	25.	27.	0.50			
	1.	26.	27.	0.50			
	1.	26.	28.	0.50			
	1.	27.	28.	0.50			
	1.	27.	29.	0.50			
	1.	28.	29.	0.50			
	1.	29.	29.	0.50			
	1.	29.	30.	0.50			
	1.	30.	30.	0.50			
	1.	31.	30.	0.50			
	1.	32.	30.	0.50			
	1.	33.	30.	0.50			
	1.	34.	30.	0.50			
	1.	35.	30.	0.50			
	1.	36.	30.	0.50			
	1.	37.	30.	0.50			
	1.	38.	30.	0.50			
	1.	39.	30.	0.50			
	1.	40.	30.	0.50			
	1.	41.	30.	0.50			
	1.	42.	30.	0.50			
	1.	43.	30.	0.50			
	1.	44.	30.	0.50			
	1.	45.	30.	0.50			
	1.	45.	29.	0.50			
	1.	46.	29.	0.50			
	1.	47.	29.	0.50			
	1.	48.	29.	0.50			
	1.	49.	29.	0.50			
	1.	50.	29.	0.50			
	1.	51.	29.	0.50			
	1.	52.	29.	0.50			
	1.	53.	29.	0.50			
	1.	54.	29.	0.50			
	1.	55.	29.	0.50			
	1.	56.	29.	0.50			
	1.	57.	29.	0.50			
	1.	58.	29.	0.50			
	1.	59.	29.	0.50			
	1.	60.	29.	0.50			
	1.	61.	29.	0.50			
	1.	61.	28.	0.50			
	1.	62.	28.	0.50			
	1.	63.	28.	0.50			
	1.	64.	28.	0.50			
	1.	65.	28.	0.50			
	1.	66.	28.	0.23			

GROUP NUMBER: 25    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP: 38  
 NUMBER OF FLOW OBSERVATIONS: 1

				DRAIN_HIGHK.glo			
	OBSERVATION	REFER.	TIME	BOUNDARY FLOW		STATISTIC	PLOT
OBS#	NAME	STRESS	OFFSET	GAIN (-) OR	LOSS (+)	TYPE	SYM.
32	no_chdf19	PERIOD	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	3.	54.	0.47
1.	3.	55.	0.50
1.	3.	56.	0.50
1.	3.	57.	0.50
1.	4.	57.	0.50
1.	5.	57.	0.50
1.	6.	57.	0.50
1.	7.	57.	0.50
1.	8.	57.	0.50
1.	9.	57.	0.50
1.	10.	57.	0.50
1.	11.	57.	0.50
1.	12.	57.	0.50
1.	13.	57.	0.50
1.	13.	56.	0.50
1.	14.	56.	0.50
1.	15.	56.	0.50
1.	16.	56.	0.50
1.	17.	56.	0.50
1.	17.	57.	0.50
1.	17.	58.	0.50
1.	17.	59.	0.50
1.	17.	60.	0.50
1.	17.	61.	0.50
1.	17.	62.	0.50
1.	17.	63.	0.50
1.	17.	64.	0.50
1.	17.	65.	0.50
1.	17.	66.	0.50
1.	17.	67.	0.50
1.	18.	67.	0.50
1.	18.	68.	0.50
1.	18.	69.	0.50
1.	18.	70.	0.50
1.	18.	71.	0.50
1.	18.	72.	0.50
1.	18.	73.	0.50
1.	18.	74.	0.01

SOLUTION BY THE CONJUGATE-GRADIENT METHOD

```

-----
MAXIMUM NUMBER OF CALLS TO PCG ROUTINE =      25
MAXIMUM ITERATIONS PER CALL TO PCG =      50
MATRIX PRECONDITIONING TYPE =      1
RELAXATION FACTOR (ONLY USED WITH PRECOND. TYPE 1) = 0.10000E+01
PARAMETER OF POLYNOMIAL PRECOND. = 2 (2) OR IS CALCULATED :      0
HEAD CHANGE CRITERION FOR CLOSURE = 0.10000E+00
RESIDUAL CHANGE CRITERION FOR CLOSURE = 0.10000E+00
PCG HEAD AND RESIDUAL CHANGE PRINTOUT INTERVAL =      999
PRINTING FROM SOLVER IS LIMITED(1) OR SUPPRESSED (>1) =      2
DAMPING PARAMETER = 0.10000E+01

```

WETTING CAPABILITY IS ACTIVE IN 1 LAYERS  
WETTING FACTOR= 10.00000  
WETTING ITERATION INTERVAL= 10

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IHDWET= 0

0 well parameters

0 Drain parameters

0 Evapotranspiration parameters

0 GHB parameters

0 Recharge parameters

0 TIME-VARIANT SPECIFIED-HEAD PARAMETERS

0 HFB parameters

3 PARAMETERS HAVE BEEN DEFINED IN ALL PACKAGES.  
(SPACE IS ALLOCATED FOR 999 PARAMETERS.)

#### SMALLEST AND LARGEST WEIGHTED RESIDUALS

SMALLEST WEIGHTED RESIDUALS			LARGEST WEIGHTED RESIDUALS		
NAME	WEIGHTED RESIDUAL	PERCENT OF OBJ FUNC	NAME	WEIGHTED RESIDUAL	PERCENT OF OBJ FUNC
no_ghbf2	-0.507E-12	0.00	hed6	0.204E+04	46.87
no_ghbf1	-0.129E-14	0.00	hed4	0.173E+04	33.67
no_ghbf3	-0.100E-14	0.00	hed7	839.	7.96
no_ghbf0	-0.405E-15	0.00	hed3	758.	6.51
no_chdf11	0.168E-15	0.00	hed1	460.	2.39

STATISTICS FOR ALL RESIDUALS :  
AVERAGE WEIGHTED RESIDUAL : 0.202E+03  
# RESIDUALS >= 0. : 28  
# RESIDUALS < 0. : 4  
NUMBER OF RUNS : 3 IN 32 OBSERVATIONS

INTERPRETING THE CALCULATED RUNS STATISTIC VALUE OF -3.87  
NOTE: THE FOLLOWING APPLIES ONLY IF

# RESIDUALS >= 0 . IS GREATER THAN 10 AND  
# RESIDUALS < 0. IS GREATER THAN 10

THE NEGATIVE VALUE MAY INDICATE TOO FEW RUNS:

IF THE VALUE IS LESS THAN -1.28, THERE IS LESS THAN A 10 PERCENT  
CHANCE THE VALUES ARE RANDOM,

IF THE VALUE IS LESS THAN -1.645, THERE IS LESS THAN A 5 PERCENT  
CHANCE THE VALUES ARE RANDOM,

IF THE VALUE IS LESS THAN -1.96, THERE IS LESS THAN A 2.5 PERCENT  
CHANCE THE VALUES ARE RANDOM.

CORRELATION BETWEEN ORDERED WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS  
FOR OBSERVATIONS = 0.474

-----  
COMMENTS ON THE INTERPRETATION OF THE CORRELATION BETWEEN  
WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS:

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Generally, IF the reported CORRELATION is LESS than the critical value, at the selected significance level (usually 5 or 10%), the hypothesis that the weighted residuals are INDEPENDENT AND NORMALLY DISTRIBUTED would be REJECTED. HOWEVER, in this case, conditions are outside of the range of published critical values as discussed below.

The sum of the number of observations and prior information items is 32 which is less than 35, the minimum value for which critical values are published. Therefore, the critical values for the 5 and 10% significance levels are less than 0.943 and 0.952, respectively.

CORRELATIONS GREATER than these critical values indicate that, probably, the weighted residuals ARE INDEPENDENT AND NORMALLY DISTRIBUTED.

Correlations LESS than these critical values MAY BE ACCEPTABLE, and rejection of the hypothesis is not necessarily warranted.

The Kolmogorov-Smirnov test can be used to further evaluate the residuals.

---

## DRAIN\_HIGHK.hfb

```
0 0 380
1 47 92 47 93 1.0e-009
1 46 92 47 92 1.0e-009
1 47 91 47 92 1.0e-009
1 48 91 48 92 1.0e-009
1 48 90 49 90 1.0e-009
1 49 89 49 90 1.0e-009
1 49 89 50 89 1.0e-009
1 50 88 50 89 1.0e-009
1 50 88 51 88 1.0e-009
1 50 87 51 87 1.0e-009
1 51 86 51 87 1.0e-009
1 51 86 52 86 1.0e-009
1 52 85 52 86 1.0e-009
1 52 85 53 85 1.0e-009
1 53 84 53 85 1.0e-009
1 53 83 54 83 1.0e-009
1 54 82 54 83 1.0e-009
1 54 82 55 82 1.0e-009
1 55 81 55 82 1.0e-009
1 62 81 63 81 1.0e-009
1 63 80 63 81 1.0e-009
1 64 80 64 81 1.0e-009
1 65 80 65 81 1.0e-009
1 66 80 66 81 1.0e-009
1 67 80 67 81 1.0e-009
1 68 80 68 81 1.0e-009
1 69 80 69 81 1.0e-009
1 70 80 70 81 1.0e-009
1 72 80 73 80 1.0e-009
1 72 79 73 79 1.0e-009
1 73 78 73 79 1.0e-009
1 73 78 74 78 1.0e-009
1 73 77 74 77 1.0e-009
1 74 76 74 77 1.0e-009
1 74 75 75 75 1.0e-009
1 75 74 75 75 1.0e-009
1 75 73 76 73 1.0e-009
1 76 72 76 73 1.0e-009
1 76 71 77 71 1.0e-009
1 76 70 77 70 1.0e-009
1 76 69 77 69 1.0e-009
1 76 68 77 68 1.0e-009
1 76 67 77 67 1.0e-009
1 76 66 76 67 1.0e-009
1 75 66 76 66 1.0e-009
1 75 65 75 66 1.0e-009
1 74 65 74 66 1.0e-009
1 73 65 74 65 1.0e-009
1 73 64 73 65 1.0e-009
1 72 64 73 64 1.0e-009
1 72 62 73 62 1.0e-009
1 73 61 73 62 1.0e-009
1 74 61 75 61 1.0e-009
1 75 60 75 61 1.0e-009
1 76 60 76 61 1.0e-009
1 76 60 77 60 1.0e-009
1 77 59 77 60 1.0e-009
1 78 59 78 60 1.0e-009
1 79 59 80 59 1.0e-009
1 80 58 80 59 1.0e-009
1 81 58 81 59 1.0e-009
1 82 58 83 58 1.0e-009
```

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1 83 57 83 58 1.0e-009  
 1 84 55 85 55 1.0e-009  
 1 84 54 85 54 1.0e-009  
 1 84 53 85 53 1.0e-009  
 1 85 52 85 53 1.0e-009  
 1 85 51 86 51 1.0e-009  
 1 85 50 86 50 1.0e-009  
 1 85 49 86 49 1.0e-009  
 1 86 48 86 49 1.0e-009  
 1 86 47 87 47 1.0e-009  
 1 87 46 87 47 1.0e-009  
 1 95 46 96 46 1.0e-009  
 1 96 45 96 46 1.0e-009  
 1 97 45 97 46 1.0e-009  
 2 47 92 47 93 1.0e-009  
 2 46 92 47 92 1.0e-009  
 2 47 91 47 92 1.0e-009  
 2 48 91 48 92 1.0e-009  
 2 48 90 49 90 1.0e-009  
 2 49 89 49 90 1.0e-009  
 2 49 89 50 89 1.0e-009  
 2 50 88 50 89 1.0e-009  
 2 50 88 51 88 1.0e-009  
 2 50 87 51 87 1.0e-009  
 2 51 86 51 87 1.0e-009  
 2 51 86 52 86 1.0e-009  
 2 52 85 52 86 1.0e-009  
 2 52 85 53 85 1.0e-009  
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 2 53 83 54 83 1.0e-009  
 2 54 82 54 83 1.0e-009  
 2 54 82 55 82 1.0e-009  
 2 55 81 55 82 1.0e-009  
 2 62 81 63 81 1.0e-009  
 2 63 80 63 81 1.0e-009  
 2 64 80 64 81 1.0e-009  
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 2 66 80 66 81 1.0e-009  
 2 67 80 67 81 1.0e-009  
 2 68 80 68 81 1.0e-009  
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 2 76 69 77 69 1.0e-009  
 2 76 68 77 68 1.0e-009  
 2 76 67 77 67 1.0e-009  
 2 76 66 76 67 1.0e-009  
 2 75 66 76 66 1.0e-009  
 2 75 65 75 66 1.0e-009  
 2 74 65 74 66 1.0e-009  
 2 73 65 74 65 1.0e-009  
 2 73 64 73 65 1.0e-009



## DRAIN\_HIGHK.hfb

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2 72 62 73 62 1.0e-009  
2 73 61 73 62 1.0e-009  
2 74 61 75 61 1.0e-009  
2 75 60 75 61 1.0e-009  
2 76 60 76 61 1.0e-009  
2 76 60 77 60 1.0e-009  
2 77 59 77 60 1.0e-009  
2 78 59 78 60 1.0e-009  
2 79 59 80 59 1.0e-009  
2 80 58 80 59 1.0e-009  
2 81 58 81 59 1.0e-009  
2 82 58 83 58 1.0e-009  
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 4 51 86 51 87 1.0e-009  
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 4 55 81 55 82 1.0e-009  
 4 62 81 63 81 1.0e-009  
 4 63 80 63 81 1.0e-009  
 4 64 80 64 81 1.0e-009  
 4 65 80 65 81 1.0e-009

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4 66 80 66 81 1.0e-009  
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 4 69 80 69 81 1.0e-009  
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 4 85 51 86 51 1.0e-009  
 4 85 50 86 50 1.0e-009  
 4 85 49 86 49 1.0e-009  
 4 86 48 86 49 1.0e-009  
 4 86 47 87 47 1.0e-009  
 4 87 46 87 47 1.0e-009  
 4 95 46 96 46 1.0e-009  
 4 96 45 96 46 1.0e-009  
 4 97 45 97 46 1.0e-009  
 5 47 92 47 93 1.0e-009  
 5 46 92 47 92 1.0e-009  
 5 47 91 47 92 1.0e-009  
 5 48 91 48 92 1.0e-009  
 5 48 90 49 90 1.0e-009  
 5 49 89 49 90 1.0e-009  
 5 49 89 50 89 1.0e-009  
 5 50 88 50 89 1.0e-009  
 5 50 88 51 88 1.0e-009  
 5 50 87 51 87 1.0e-009

DRAIN\_HIGHK.hfb

5 51 86 51 87 1.0e-009  
 5 51 86 52 86 1.0e-009  
 5 52 85 52 86 1.0e-009  
 5 52 85 53 85 1.0e-009  
 5 53 84 53 85 1.0e-009  
 5 53 83 54 83 1.0e-009  
 5 54 82 54 83 1.0e-009  
 5 54 82 55 82 1.0e-009  
 5 55 81 55 82 1.0e-009  
 5 62 81 63 81 1.0e-009  
 5 63 80 63 81 1.0e-009  
 5 64 80 64 81 1.0e-009  
 5 65 80 65 81 1.0e-009  
 5 66 80 66 81 1.0e-009  
 5 67 80 67 81 1.0e-009  
 5 68 80 68 81 1.0e-009  
 5 69 80 69 81 1.0e-009  
 5 70 80 70 81 1.0e-009  
 5 72 80 73 80 1.0e-009  
 5 72 79 73 79 1.0e-009  
 5 73 78 73 79 1.0e-009  
 5 73 78 74 78 1.0e-009  
 5 73 77 74 77 1.0e-009  
 5 74 76 74 77 1.0e-009  
 5 74 75 75 75 1.0e-009  
 5 75 74 75 75 1.0e-009  
 5 75 73 76 73 1.0e-009  
 5 76 72 76 73 1.0e-009  
 5 76 71 77 71 1.0e-009  
 5 76 70 77 70 1.0e-009  
 5 76 69 77 69 1.0e-009  
 5 76 68 77 68 1.0e-009  
 5 76 67 77 67 1.0e-009  
 5 76 66 76 67 1.0e-009  
 5 75 66 76 66 1.0e-009  
 5 75 65 75 66 1.0e-009  
 5 74 65 74 66 1.0e-009  
 5 73 65 74 65 1.0e-009  
 5 73 64 73 65 1.0e-009  
 5 72 64 73 64 1.0e-009  
 5 72 62 73 62 1.0e-009  
 5 73 61 73 62 1.0e-009  
 5 74 61 75 61 1.0e-009  
 5 75 60 75 61 1.0e-009  
 5 76 60 76 61 1.0e-009  
 5 76 60 77 60 1.0e-009  
 5 77 59 77 60 1.0e-009  
 5 78 59 78 60 1.0e-009  
 5 79 59 80 59 1.0e-009  
 5 80 58 80 59 1.0e-009  
 5 81 58 81 59 1.0e-009  
 5 82 58 83 58 1.0e-009  
 5 83 57 83 58 1.0e-009  
 5 84 55 85 55 1.0e-009  
 5 84 54 85 54 1.0e-009  
 5 84 53 85 53 1.0e-009  
 5 85 52 85 53 1.0e-009  
 5 85 51 86 51 1.0e-009  
 5 85 50 86 50 1.0e-009  
 5 85 49 86 49 1.0e-009  
 5 86 48 86 49 1.0e-009  
 5 86 47 87 47 1.0e-009  
 5 87 46 87 47 1.0e-009

DRAIN\_HIGHK.hfb

5 95 46 96 46 1.0e-009  
5 96 45 96 46 1.0e-009  
5 97 45 97 46 1.0e-009  
0

DRAIN\_HIGHK.1mt

# MF2K-MT3DMS LINKER FILE

#

OUTPUT\_FILE\_NAME "DRAIN\_HIGHK.hff"

OUTPUT\_FILE\_UNIT

OUTPUT\_FILE\_HEADER standard

OUTPUT\_FILE\_FORMAT unformatted

# DRAIN\_HIGHK.lpf

```

40 -888.0 0 0
1 0 0 0 0 0
0 0 0 0 0 0
-1.0 -1.0 -1.0 -1.0 -1.0 -1.0
1 1 1 1 1 1
1 0 0 0 0 0
10.0 10 0
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HK1" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HANI1" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/VANI1" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/WET1" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HK2" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HANI2" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/VANI2" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HK3" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HANI3" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/VANI3" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HK4" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HANI4" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/VANI4" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HK5" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HANI5" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/VANI5" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HK6" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/HANI6" 1 0 10000
HDF5 1.0 -1 "DRAIN_HIGHK.h5" "Arrays/VANI6" 1 0 10000

```

```

# MF2K NAME file
#
# Output Files
GLOBAL      1 "DRAIN_HIGHK.glo"
LIST        2 "DRAIN_HIGHK.out"
DATA(BINARY) 30 "DRAIN_HIGHK.hed"
DATA(BINARY) 40 "DRAIN_HIGHK.ccf"
LMT6        18 "DRAIN_HIGHK.lmt"
#
# Obs-Sen-Pes Process Input Files
OBS          50 "DRAIN_HIGHK.obs"
HOB          51 "DRAIN_HIGHK.hob"
GBOB         53 "DRAIN_HIGHK.gbob"
DROB         54 "DRAIN_HIGHK.drob"
CHOB         55 "DRAIN_HIGHK.chob"
SEN          57 "DRAIN_HIGHK.snn"
PES          58 "DRAIN_HIGHK.pes"
ASP          71 "DRAIN_HIGHK.asp"
#
# Global Input Files
DIS          19 "DRAIN_HIGHK.dis"
#
# Flow Process Input Files
BAS6         3 "DRAIN_HIGHK.ba6"
LPF          4 "DRAIN_HIGHK.lpf"
OC           15 "DRAIN_HIGHK.oc"
RCH          16 "DRAIN_HIGHK.rch"
HFB6         7 "DRAIN_HIGHK.hfb"
WEL          9 "DRAIN_HIGHK.wel"
DRN          10 "DRAIN_HIGHK.drn"
GHB          11 "DRAIN_HIGHK.ghb"
EVT          12 "DRAIN_HIGHK.evt"
CHD          13 "DRAIN_HIGHK.chd"
PCG          14 "DRAIN_HIGHK.pcg"

```



DRAIN\_HIGHK 3

DRAIN\_HIGHK.obs

DRAIN\_HIGHK.oc

HEAD SAVE UNIT 30  
COMPACT BUDGET AUX  
PERIOD 1 STEP 1  
PRINT BUDGET  
SAVE HEAD  
SAVE BUDGET

DRAIN\_HIGHK.out  
MODFLOW-2000  
U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER FLOW MODEL  
VERSION 1.18.01 06/20/2008

This model run produced both GLOBAL and LIST files. This is the LIST file.

```
#NT-1
#12 December 2007
THE FREE FORMAT OPTION HAS BEEN SELECTED
  6 LAYERS      100 ROWS      100 COLUMNS
  1 STRESS PERIOD(S) IN SIMULATION

BAS6 -- BASIC PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT    3
      30 ELEMENTS IN IR ARRAY ARE USED BY BAS

WEL6 -- WELL PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT    9
#GMS_HDF5_01
No named parameters
MAXIMUM OF      1 ACTIVE WELLS AT ONE TIME
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT    40
AUXILIARY WELL VARIABLE: IFACE
AUXILIARY WELL VARIABLE: QFACT
AUXILIARY WELL VARIABLE: CELLGRP
      7 ELEMENTS IN RX ARRAY ARE USED BY WEL

DRN6 -- DRAIN PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT   10
#GMS_HDF5_01
No named parameters
MAXIMUM OF    432 ACTIVE DRAINS AT ONE TIME
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT    40
AUXILIARY DRAIN VARIABLE: IFACE
AUXILIARY DRAIN VARIABLE: CONDFACT
AUXILIARY DRAIN VARIABLE: CELLGRP
    3456 ELEMENTS IN RX ARRAY ARE USED BY DRN

EVT6 -- EVAPOTRANSPIRATION PACKAGE, VERSION 6, 12/14/2000
      INPUT READ FROM UNIT    12
#GMS_HDF5_01
No named parameters
OPTION 1 -- EVAPOTRANSPIRATION FROM TOP LAYER
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT    40
    30000 ELEMENTS IN RX ARRAY ARE USED BY EVT
    10000 ELEMENTS IN IR ARRAY ARE USED BY EVT

GHB6 -- GHB PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT   11
#GMS_HDF5_01
No named parameters
MAXIMUM OF    263 ACTIVE GHB CELLS AT ONE TIME
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT    40
AUXILIARY GHB VARIABLE: IFACE
AUXILIARY GHB VARIABLE: CONDFACT
AUXILIARY GHB VARIABLE: CELLGRP
    2104 ELEMENTS IN RX ARRAY ARE USED BY GHB

RCH6 -- RECHARGE PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT  16
#GMS_HDF5_01
No named parameters
OPTION 3 -- RECHARGE TO HIGHEST ACTIVE NODE IN EACH VERTICAL COLUMN
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT    40
    10000 ELEMENTS IN RX ARRAY ARE USED BY RCH
    10000 ELEMENTS IN IR ARRAY ARE USED BY RCH
```

## DRAIN\_HIGHK.out

CHD6 -- TIME-VARIANT SPECIFIED-HEAD PACKAGE, VERSION 6, 1/11/2000

```

INPUT READ FROM UNIT 13

```

#GMS\_HDF5\_01

```
#args=()
No named parameters
```

MAXIMUM OF 752 TIME-VARIANT SPECIFIED-HEAD CELLS AT ONE TIME

3760 ELEMENTS IN RX ARRAY ARE USED BY CHD

HFB6 -- HORIZONTAL FLOW BARRIER PACKAGE, VERSION 6, 1/11/1000.

INPUT READ FROM UNIT 7

0 PARAMETERS DEFINE A MAXIMUM OF 0 HORIZONTAL FLOW BARRIERS

### 380 HORIZONTAL FLOW BARRIERS NOT DEFINED BY PARAMETERS

2660 ELEMENTS IN RX ARRAY ARE USED FOR

## HORIZONTAL FLOW BARRIER PACKAGE

51987 ELEMENTS OF RX ARRAY USED OUT OF 51987

```
0 ELEMENTS OF RZ ARRAY USED OUT OF 1
```

20030 ELEMENTS OF IR ARRAY USED OUT OF 20030

1

#NT-1

#12 December 2007

	1	2	3	4	5	6
7	8	9	10			
	11	12	13	14	15	16
17	18	19	20			
	21	22	23	24	25	26
27	28	29	30			
	31	32	33	34	35	36
37	38	39	40			
	41	42	43	44	45	46
47	48	49	50			
	51	52	53	54	55	56
57	58	59	60			
	61	62	63	64	65	66
67	68	69	70			
	71	72	73	74	75	76
77	78	79	80			
	81	82	83	84	85	86
87	88	89	90			
	91	92	93	94	95	96
97	98	99	100			

[illegible]

			DRAIN_HIGHK.out			
0	0	0	0			
2	0	0	0	0	0	0
0	0	0	0			
	0	0	0	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
3	0	0	0	0	0	0
0	0	0	0	0	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
4	0	0	0	0	0	0
0	0	0	0	0	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
5	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
6	0	0	0	0	0	0
0	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
7	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
8	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
1	1	1	1			
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
9	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
10	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
11	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
12	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
13	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
14	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1



			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
15	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
16	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
17	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
18	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	1	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
19	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	1	1	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
20	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	1	1	0
0	0	0	0	0	0	0





			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
28	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
29	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
30	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1

			DRAIN_HIGHK.out			
	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
31	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
32	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
33	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1

[illegible]

			DRAIN_HIGHK.out			
	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	1	1	1	1
0	0	0	0	0	0	0
37	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
0	1	1	1	1	1	1
0	0	0	0	0	0	0
38	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
39	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1



[illegible]

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
43	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
44	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
45	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
46	0	0	0	0	0	0

[illegible]



			DRAIN_HIGHK.out			
1	1	1	1			
	1	1	1	1	1	1
1	1	1	1			
	1	1	1	1	1	1
1	1	1	1			
	1	1	1	1	1	1
1	1	1	1			
	1	1	1	1	1	1
1	1	1	1			
0	0	0	0	1	1	1
	0	0	0			
0	0	0	0	0	0	0
53	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
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	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
0	0	0	0	1	1	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
54	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
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	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
55	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1



			DRAIN_HIGHK.out			
1	1	1	1			
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
59	0	0	0	0	0	0
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0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
60	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
61	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
62	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
63	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
64	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0



			DRAIN_HIGHK.out			
0	0	0	0			
65	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
66	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
67	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
68	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
69	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
70	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
71	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
72	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
73	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
74	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
75	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	1	1
1	1	1	1	1	1	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
76	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	1
1	1	1	1	1	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
77	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1

1	0	0	0	0	0
1	1	1	1	0	0
0	1	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
78	0	0	0	0	0
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1	1	1	1	0	1
1	1	1	1	1	1
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1	1	1	1	1	1
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0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
79	0	0	0	0	0
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1	1	1	1	0	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	0	1	1
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0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
80	0	0	0	0	0
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1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	0	1	1
0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
81	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
82	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
83	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
84	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
85	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
0	0	0	0	1	1	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
86	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
87	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
88	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
89	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
1	1	1	1	1	1	1
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
90	0	0	0	0	0	0
0	0	0	0	0	0	0







[illegible]

[illegible]

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
2	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	0	1	1	1
1	1	1	1	1	1	1
0	1	1	1	1	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
3	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
4	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	0	0	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	1	1	1
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
5	0	0	0	0	0	0
0	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
6	0	0	0	0	0	0
0	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
7	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
8	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
9	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
10	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
11	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
12	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
13	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
14	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0







1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
21	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
22	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
23	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1



			DRAIN_HIGHK.out			
1	1	1	0			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
27	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
28	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
29	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
30	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
31	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
32	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
33	0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
34	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
35	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
36	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0





[illegible]



[illegible]



			DRAIN_HIGHK.out			
0	0	0	0			
52	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
53	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
54	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
55	0	0	0	0	0	0
0	0	0	0	0	0	0



			DRAIN_HIGHK.out			
0	0	1	1			
	1	1	1	1	1	1
1	1	1	1			
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
59	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
60	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
61	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	1	1	1	1	1	1
	1	1	1	1	1	1

			DRAIN_HIGHK.out			
	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
62	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
63	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
64	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1



1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
65	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
66	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
67	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
	1	1	1	1	1	1
1	1	1	1	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
68	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
69	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
70	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
71	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
72	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
73	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	0	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
74	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	0	0	0	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
75	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	0	0	0	1	1
1	1	1	1	1	1	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
76	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	0	0	0	0	1
1	1	1	1	1	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
77	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
1	1	1	1	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
78	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
79	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
80	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	0	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
81	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	0	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
82	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
83	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
	1	1	1	1	1	1

			DRAIN_HIGHK.out			
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
84	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
85	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
86	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
87	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
88	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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89	0	0	0	0	0	0
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0	0	0	0	0	0	0
1	1	1	1	0	0	0
0	0	0	0	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0





			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
93	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
94	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
95	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
96	0	0	0	0	0	0

0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	1	1
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
97	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	1
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
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0	0	0	0	0	0
98	0	0	0	0	0
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0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
99	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

DRAIN\_HIGHK.out

[illegible]

1	0	0	0	0	0	0
0	0	0	0			
	0	0	0	0	0	0

0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
2	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
3	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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4	0	0	0	0	0	0
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			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
6	0	0	0	0	0	0
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7	0	0	0	0	0	0
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1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
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9	0	0	0	0	0	0
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1	1	1	1	1	1	1
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			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
11	0	0	0	0	0	0
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12	0	0	0	0	0	0
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13	0	0	0	0	0	0
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0	0	0	0	0	0	0



			DRAIN_HIGHK.out			
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14	0	0	0	0	0	0
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0	0	0	0	0	0	0
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15	0	0	0	0	0	0
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16	0	0	0	0	0	0
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			DRAIN_HIGHK.out			
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17	0	0	0	0	0	0
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0	0	0	0	0	0	0
18	0	0	0	0	0	0
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0	0	0	0	0	0	0
19	0	0	0	0	0	0
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0	0	0	0	0	0	0
20	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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21	0	0	0	0	0	0
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0	0	0	0	0	0	0
22	0	0	0	0	0	0
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23	0	0	0	0	0	0
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27	0	0	0	0	0	0
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28	0	0	0	0	0	0
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29	0	0	0	0	0	0
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1	1	1	1	1	1	1



			DRAIN_HIGHK.out			
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33	0	0	0	0	0	0
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34	0	0	0	0	0	0
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0	0	0	0	0	0	0
35	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
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36	0	0	0	0	0	0
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37	0	0	0	0	0	0
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38	0	0	0	0	0	0
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			DRAIN_HIGHK.out			
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46	0	0	0	0	0	0
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47	0	0	0	0	0	0
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48	0	0	0	0	0	0
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0	0	1	1	1	1	1
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			DRAIN_HIGHK.out			
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49	0	0	0	0	0	0
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51	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
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52	0	0	0	0	0	0
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53	0	0	0	0	0	0
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54	0	0	0	0	0	0
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	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
	1	1	1	1	1	1



			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
58	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
59	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
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1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
62	0	0	0	0	0	0
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0	0	0	0	0	0	0
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0	0	0	0	0	0	0
63	0	0	0	0	0	0
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0	0	0	0	0	0	0
64	0	0	0	0	0	0
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	0	0	0	0	0	0



			DRAIN_HIGHK.out			
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65	0	0	0	0	0	0
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0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
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0	0	0	0	0	0	0
66	0	0	0	0	0	0
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0	0	0	0	0	0	0
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
67	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
68	0	0	0	0	0	0
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0	0	0	0	0	0	0
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69	0	0	0	0	0	0
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70	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
	1	1	1	1	1	1

			DRAIN_HIGHK.out			
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1	1	1	1			
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	0	0	0			
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71	0	0	0	0	0	0
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	0	0	0			
0	0	0	0	0	0	0
	0	0	0			
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	1	1	1			
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	1	1	1			
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0	0	0	0			
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0	0	0	0	0	0	0
72	0	0	0	0	0	0
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0	0	0	0			
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73	0	0	0	0	0	0
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	0	0	0			
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	1	1	1			
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	1	1	1			
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
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1	1	1	1			
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0	0	0	0	0	0	0
75	0	0	0	0	0	0
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0	0	0	0	0	0	0
76	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	0	0	0	0	1
1	1	1	1	1	0	0

			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
77	0	0	0	0	0	0
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1	1	1	1	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	0	0	0
1	1	1	1	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
78	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
79	0	0	0	0	0	0
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1	1	1	1	0	0	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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80	0	0	0	0	0	0
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0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
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1	1	1	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
82	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
83	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
84	0	0	0	0	0	0
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1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
86	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0





[illegible]



[illegible]

DRAIN\_HIGHK.out

	0	0	0	0	0	0
0	0	0	0	0	0	0
99	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
7	1	2	3	4	5	6
8	8	9	10			
17	11	12	13	14	15	16
27	18	19	20	24	25	26
37	21	22	23			
47	28	29	30	34	35	36
57	31	32	33			
67	38	39	40	44	45	46
77	41	42	43			
87	48	49	50	54	55	56
	51	52	53			
	58	59	60	64	65	66
	61	62	63			
	68	69	70	74	75	76
	71	72	73			
	78	79	80	84	85	86
	81	82	83			
	88	89	90			

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			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
4	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
5	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
6	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
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0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
7	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
8	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
9	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
10	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	0	0	0





			DRAIN_HIGHK.out			
1	1	1	1			
1	1	1	1	1	1	1
1	1	1	1			
0	0	0	0	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
14	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
15	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
16	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
17	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
18	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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0	0	0	0	0	0	0
19	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
1	1	1	1			
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
20	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	0	0	0	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	1	1	1	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
21	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	0	0	0	0	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
22	0	0	0	0	0	0
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0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	1	1



			DRAIN_HIGHK.out			
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26	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
27	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
28	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
29	0	0	0	0	0	0
0	0	0	0	0	0	0



			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
33	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
34	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
35	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
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0	0	0	0	0	0	0
36	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	1	1	1
0	0	0	0	0	0	0
37	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
0	0	0	0	1	1	1
0	0	0	0	0	0	0
38	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1



[illegible]



			DRAIN_HIGHK.out			
1	1	1	1			
0	1	0	0	0	0	0
45	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	1	1	1	1
46	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	0	0	0	0
47	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	1	1	0	0	0





			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
0	1	1	1	0	0	0
0	0	0	0	0	0	0
55	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	0	0	0	0
0	0	0	0	0	0	0
56	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
57	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1

1	1	1	1			
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
58 0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
59 0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
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60 0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
61	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
62	0	0	0	0	0	0
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0	0	0	0	0	0	0
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1	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
63	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1



			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
64	0	0	0	0	0	0
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0	0	0	0	0	0	0
65	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
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1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
66	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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67	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
68	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
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0	0	0	0	0	0	0
69	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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70	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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71	0	0	0	0	0	0
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0	0	0	0	0	0	0
72	0	0	0	0	0	0
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1	1	1	1	1	1	1
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0	0	0	0	0	0	0
73	0	0	0	0	0	0
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0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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75	0	0	0	0	0	0
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76	0	0	0	0	0	0
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			DRAIN_HIGHK.out			
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			DRAIN_HIGHK.out			
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81	0	0	0	0	0	0
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			DRAIN_HIGHK.out			
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85	0	0	0	0	0	0
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0	0	0	0	0	0	0
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0	0	0	0	0	0	0





			DRAIN_HIGHK.out				
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89	0	0	0	0	0	0	0
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91	0	0	0	0	0	0	0
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92	0	0	0	0	0	0	0
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96	0	0	0	0	0	0
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97	0	0	0	0	0	0
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98	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

[illegible]

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	51	52	53	54	55	56
57	58	59	60			
	61	62	63	64	65	66
67	68	69	70			
	71	72	73	74	75	76
77	78	79	80			
	81	82	83	84	85	86
87	88	89	90			
	91	92	93	94	95	96
97	98	99	100			

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			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
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0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
7	0	0	0	0	0	0
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1	1	1	1	1	1	1
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0	0	0	0	0	0	0
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8	0	0	0	0	0	0
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9	0	0	0	0	0	0
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0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
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0	0	0	0	0	0	0
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11	0	0	0	0	0	0
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0	0	0	0	0	0	0
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			DRAIN_HIGHK.out				
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21	0	0	0	0	0	0
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			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
28	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1



			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
32	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	0	0	0
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
33	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
34	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	1	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
35	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	1	1	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
36	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	1	1	1
0	0	0	0	0	0	0
37	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	1	1	1
0	0	0	0	0	0	0
38	0	0	0	0	0	0
0	0	0	0	0	0	0



			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
39	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	0
0	0	0	0	0	0	0
40	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
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1	1	0	0	0	0	0
0	0	0	0	0	0	0
41	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1



[illegible]



1	1	1	1	1	1	1
1	1	1	0	0	0	0
0	0	0	0	0	0	0
51	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
52	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
53	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
54	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	1	1	0	0	0
0	0	0	0	0	0	0
55	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	1	0	0	0	0
0	0	0	0	0	0	0
56	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
57	0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
58	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
59	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
60	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
61	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
62	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
63	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
	1	1	1	1	1	1



[illegible]

			DRAIN_HIGHK.out			
	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
67	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
68	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
69	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
1	1	1	1			
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
70	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
71	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
72	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
73	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	0	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
74	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	0	0	0	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
75	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	1	1
1	1	1	1	1	1	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0			
76	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	0	0	1
1	1	1	1	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
77	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	0	0	0
1	1	1	1	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
79	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
80	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
81	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
82	0	0	0	0	0	0
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0	0	0	0	0	0	0

0	0	0	0	0	0	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
83	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
84	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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85	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1

			DRAIN_HIGHK.out			
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1	1	1	1	1	1	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
86	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
87	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
88	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
0	0	0	0	0	0	0



			DRAIN_HIGHK.out				
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0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
0	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
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91	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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0	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0



			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
95	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
96	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	1	1	1
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	1	1
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0



DRAIN_HIGHK.out						
	11	12	13	14	15	16
17	18	19	20			
	21	22	23	24	25	26
27	28	29	30			
	31	32	33	34	35	36
37	38	39	40			
	41	42	43	44	45	46
47	48	49	50			
	51	52	53	54	55	56
57	58	59	60			
	61	62	63	64	65	66
67	68	69	70			
	71	72	73	74	75	76
77	78	79	80			
	81	82	83	84	85	86
87	88	89	90			
	91	92	93	94	95	96
97	98	99	100			

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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
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0	0	0	0	0	0	0
2	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	1	1	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
3	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
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	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
4	0	0	0	0	0	0
0	0	0	0	0	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
5	0	0	0	0	0	0
0	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
6	0	0	0	0	0	0
0	0	0	0	0	0	1
1	1	1	1	1	1	1

DRAIN\_HIGHK.out

1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
7	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
8	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
9	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1

			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
10	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
11	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
12	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1



			DRAIN_HIGHK.out			
1	0	0	0			
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0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
13	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
14	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
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	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
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	0	0	0	0	0	0
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15	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
	1	1	1	1	1	1
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	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
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	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
16	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
18	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	0	0	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	1	1	0	0
0	0	0	0	0	0	0





			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
26	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
27	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
28	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	0	0

			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
29	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
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0	0	0	0	0	0	0
30	0	0	0	0	0	0
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0	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
31	0	0	0	0	0	0
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0	0	0	0	0	0	0
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1	1	1	1	1	1	1

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1	1	1	1	1	1	1
0	1	1	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
32 0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	1	0	0	0
0	0	0	0	0	0	0
33 0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	1	1	0	0
0	0	0	0	0	0	0
34 0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	1	1	0	0
0	0	0	0	0	0	0
34 0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1





1	1	1	1			
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0	0	0	0	0	0	0
38	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
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39	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	1	1	1

			DRAIN_HIGHK.out			
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41	0	0	0	0	0	0
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
42	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	0	0	0
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
43	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
44	0	0	0	0	0	0

[illegible]



			DRAIN_HIGHK.out			
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1	1	1	1			
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	0	1	1	1
	0	0	0	0	0	0
0	0	0	0	0	0	0
51	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
1	1	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
52	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
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	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
53	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	1	1	1	1	1
	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1

			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	1	1	1	1	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
54	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	1	1	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
55	0	0	0	0	0	0
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0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	1	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
56	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1

[illegible]

			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
60	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
61	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
62	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0



			DRAIN_HIGHK.out			
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63	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
64	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
65	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
66	0	0	0	0	0	0
0	0	0	0	0	0	0



			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
70	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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0	0	0	0	0	0	0
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
71	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
72	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	0	1

			DRAIN_HIGHK.out			
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1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
73	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
74	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
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1	1	1	1	1	1	1
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
75	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	1

			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
76	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	1
1	1	1	1	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
77	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
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1	1	1	1	1	1	1
1	1	0	0	0	0	0
1	1	1	1	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
78	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
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1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
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0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
79	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
80	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
81	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
0	0	0	0	0	0	0
0	0	0	0	0	0	0
82	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
83	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
84	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

			DRAIN_HIGHK.out			
85	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	1	1	1	1	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
86	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
	1	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
87	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	1
1	1	1	1	1	1	1
1	0	0	0	0	0	0
	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
88	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0



DRAIN\_HIGHK.out

0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
0	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
89	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	1	1	0	0	1
0	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
90	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	1	1	1	1	1	1
0	1	1	1	1	1	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
91	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0



[illegible]

[illegible]

DRAIN\_HIGHK.out

0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

AQUIFER HEAD WILL BE SET TO -999.00 AT ALL NO-FLOW NODES (IBOUND=0).

OUTPUT CONTROL IS SPECIFIED ONLY AT TIME STEPS FOR WHICH OUTPUT IS DESIRED  
 COMPACT CELL-BY-CELL BUDGET FILES WILL BE WRITTEN  
 AUXILIARY DATA WILL BE SAVED IN CELL-BY-CELL BUDGET FILES  
 HEAD PRINT FORMAT CODE IS 0 DRAWDOWN PRINT FORMAT CODE IS 0  
 HEADS WILL BE SAVED ON UNIT 30 DRAWDOWNS WILL BE SAVED ON UNIT 0

380 BARRIERS NOT DEFINED BY PARAMETERS

BARRIER	LAYER	IROW1	ICOL1	IROW2	ICOL2	HYDCHR
1	1	47	92	47	93	0.10000E-08
2	1	46	92	47	92	0.10000E-08
3	1	47	91	47	92	0.10000E-08
4	1	48	91	48	92	0.10000E-08
5	1	48	90	49	90	0.10000E-08
6	1	49	89	49	90	0.10000E-08
7	1	49	89	50	89	0.10000E-08
8	1	50	88	50	89	0.10000E-08
9	1	50	88	51	88	0.10000E-08
10	1	50	87	51	87	0.10000E-08
11	1	51	86	51	87	0.10000E-08
12	1	51	86	52	86	0.10000E-08
13	1	52	85	52	86	0.10000E-08
14	1	52	85	53	85	0.10000E-08
15	1	53	84	53	85	0.10000E-08
16	1	53	83	54	83	0.10000E-08
17	1	54	82	54	83	0.10000E-08
18	1	54	82	55	82	0.10000E-08
19	1	55	81	55	82	0.10000E-08
20	1	62	81	63	81	0.10000E-08
21	1	63	80	63	81	0.10000E-08
22	1	64	80	64	81	0.10000E-08
23	1	65	80	65	81	0.10000E-08
24	1	66	80	66	81	0.10000E-08
25	1	67	80	67	81	0.10000E-08
26	1	68	80	68	81	0.10000E-08
27	1	69	80	69	81	0.10000E-08
28	1	70	80	70	81	0.10000E-08
29	1	72	80	73	80	0.10000E-08
30	1	72	79	73	79	0.10000E-08
31	1	73	78	73	79	0.10000E-08
32	1	73	78	74	78	0.10000E-08
33	1	73	77	74	77	0.10000E-08
34	1	74	76	74	77	0.10000E-08
35	1	74	75	75	75	0.10000E-08
36	1	75	74	75	75	0.10000E-08
37	1	75	73	76	73	0.10000E-08
38	1	76	72	76	73	0.10000E-08
39	1	76	71	77	71	0.10000E-08
40	1	76	70	77	70	0.10000E-08
41	1	76	69	77	69	0.10000E-08
42	1	76	68	77	68	0.10000E-08
43	1	76	67	77	67	0.10000E-08
44	1	76	66	76	67	0.10000E-08
45	1	75	66	76	66	0.10000E-08
46	1	75	65	75	66	0.10000E-08
47	1	74	65	74	66	0.10000E-08

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					DRAIN_HIGHK.out
48	1	73	65	74	65 0.10000E-08
49	1	73	64	73	65 0.10000E-08
50	1	72	64	73	64 0.10000E-08
51	1	72	62	73	62 0.10000E-08
52	1	73	61	73	62 0.10000E-08
53	1	74	61	75	61 0.10000E-08
54	1	75	60	75	61 0.10000E-08
55	1	76	60	76	61 0.10000E-08
56	1	76	60	77	60 0.10000E-08
57	1	77	59	77	60 0.10000E-08
58	1	78	59	78	60 0.10000E-08
59	1	79	59	80	59 0.10000E-08
60	1	80	58	80	59 0.10000E-08
61	1	81	58	81	59 0.10000E-08
62	1	82	58	83	58 0.10000E-08
63	1	83	57	83	58 0.10000E-08
64	1	84	55	85	55 0.10000E-08
65	1	84	54	85	54 0.10000E-08
66	1	84	53	85	53 0.10000E-08
67	1	85	52	85	53 0.10000E-08
68	1	85	51	86	51 0.10000E-08
69	1	85	50	86	50 0.10000E-08
70	1	85	49	86	49 0.10000E-08
71	1	86	48	86	49 0.10000E-08
72	1	86	47	87	47 0.10000E-08
73	1	87	46	87	47 0.10000E-08
74	1	95	46	96	46 0.10000E-08
75	1	96	45	96	46 0.10000E-08
76	1	97	45	97	46 0.10000E-08
77	2	47	92	47	93 0.10000E-08
78	2	46	92	47	92 0.10000E-08
79	2	47	91	47	92 0.10000E-08
80	2	48	91	48	92 0.10000E-08
81	2	48	90	49	90 0.10000E-08
82	2	49	89	49	90 0.10000E-08
83	2	49	89	50	89 0.10000E-08
84	2	50	88	50	89 0.10000E-08
85	2	50	88	51	88 0.10000E-08
86	2	50	87	51	87 0.10000E-08
87	2	51	86	51	87 0.10000E-08
88	2	51	86	52	86 0.10000E-08
89	2	52	85	52	86 0.10000E-08
90	2	52	85	53	85 0.10000E-08
91	2	53	84	53	85 0.10000E-08
92	2	53	83	54	83 0.10000E-08
93	2	54	82	54	83 0.10000E-08
94	2	54	82	55	82 0.10000E-08
95	2	55	81	55	82 0.10000E-08
96	2	62	81	63	81 0.10000E-08
97	2	63	80	63	81 0.10000E-08
98	2	64	80	64	81 0.10000E-08
99	2	65	80	65	81 0.10000E-08
100	2	66	80	66	81 0.10000E-08
101	2	67	80	67	81 0.10000E-08
102	2	68	80	68	81 0.10000E-08
103	2	69	80	69	81 0.10000E-08
104	2	70	80	70	81 0.10000E-08
105	2	72	80	73	80 0.10000E-08
106	2	72	79	73	79 0.10000E-08
107	2	73	78	73	79 0.10000E-08
108	2	73	78	74	78 0.10000E-08
109	2	73	77	74	77 0.10000E-08
110	2	74	76	74	77 0.10000E-08

				DRAIN_HIGHK.out		
111	2	74	75	75	75	0.10000E-08
112	2	75	74	75	75	0.10000E-08
113	2	75	73	76	73	0.10000E-08
114	2	76	72	76	73	0.10000E-08
115	2	76	71	77	71	0.10000E-08
116	2	76	70	77	70	0.10000E-08
117	2	76	69	77	69	0.10000E-08
118	2	76	68	77	68	0.10000E-08
119	2	76	67	77	67	0.10000E-08
120	2	76	66	76	67	0.10000E-08
121	2	75	66	76	66	0.10000E-08
122	2	75	65	75	66	0.10000E-08
123	2	74	65	74	66	0.10000E-08
124	2	73	65	74	65	0.10000E-08
125	2	73	64	73	65	0.10000E-08
126	2	72	64	73	64	0.10000E-08
127	2	72	62	73	62	0.10000E-08
128	2	73	61	73	62	0.10000E-08
129	2	74	61	75	61	0.10000E-08
130	2	75	60	75	61	0.10000E-08
131	2	76	60	76	61	0.10000E-08
132	2	76	60	77	60	0.10000E-08
133	2	77	59	77	60	0.10000E-08
134	2	78	59	78	60	0.10000E-08
135	2	79	59	80	59	0.10000E-08
136	2	80	58	80	59	0.10000E-08
137	2	81	58	81	59	0.10000E-08
138	2	82	58	83	58	0.10000E-08
139	2	83	57	83	58	0.10000E-08
140	2	84	55	85	55	0.10000E-08
141	2	84	54	85	54	0.10000E-08
142	2	84	53	85	53	0.10000E-08
143	2	85	52	85	53	0.10000E-08
144	2	85	51	86	51	0.10000E-08
145	2	85	50	86	50	0.10000E-08
146	2	85	49	86	49	0.10000E-08
147	2	86	48	86	49	0.10000E-08
148	2	86	47	87	47	0.10000E-08
149	2	87	46	87	47	0.10000E-08
150	2	95	46	96	46	0.10000E-08
151	2	96	45	96	46	0.10000E-08
152	2	97	45	97	46	0.10000E-08
153	3	47	92	47	93	0.10000E-08
154	3	46	92	47	92	0.10000E-08
155	3	47	91	47	92	0.10000E-08
156	3	48	91	48	92	0.10000E-08
157	3	48	90	49	90	0.10000E-08
158	3	49	89	49	90	0.10000E-08
159	3	49	89	50	89	0.10000E-08
160	3	50	88	50	89	0.10000E-08
161	3	50	88	51	88	0.10000E-08
162	3	50	87	51	87	0.10000E-08
163	3	51	86	51	87	0.10000E-08
164	3	51	86	52	86	0.10000E-08
165	3	52	85	52	86	0.10000E-08
166	3	52	85	53	85	0.10000E-08
167	3	53	84	53	85	0.10000E-08
168	3	53	83	54	83	0.10000E-08
169	3	54	82	54	83	0.10000E-08
170	3	54	82	55	82	0.10000E-08
171	3	55	81	55	82	0.10000E-08
172	3	62	81	63	81	0.10000E-08
173	3	63	80	63	81	0.10000E-08

				DRAIN_HIGHK.out	
174	3	64	80	64	81 0.10000E-08
175	3	65	80	65	81 0.10000E-08
176	3	66	80	66	81 0.10000E-08
177	3	67	80	67	81 0.10000E-08
178	3	68	80	68	81 0.10000E-08
179	3	69	80	69	81 0.10000E-08
180	3	70	80	70	81 0.10000E-08
181	3	72	80	73	80 0.10000E-08
182	3	72	79	73	79 0.10000E-08
183	3	73	78	73	79 0.10000E-08
184	3	73	78	74	78 0.10000E-08
185	3	73	77	74	77 0.10000E-08
186	3	74	76	74	77 0.10000E-08
187	3	74	75	75	75 0.10000E-08
188	3	75	74	75	75 0.10000E-08
189	3	75	73	76	73 0.10000E-08
190	3	76	72	76	73 0.10000E-08
191	3	76	71	77	71 0.10000E-08
192	3	76	70	77	70 0.10000E-08
193	3	76	69	77	69 0.10000E-08
194	3	76	68	77	68 0.10000E-08
195	3	76	67	77	67 0.10000E-08
196	3	76	66	76	67 0.10000E-08
197	3	75	66	76	66 0.10000E-08
198	3	75	65	75	66 0.10000E-08
199	3	74	65	74	66 0.10000E-08
200	3	73	65	74	65 0.10000E-08
201	3	73	64	73	65 0.10000E-08
202	3	72	64	73	64 0.10000E-08
203	3	72	62	73	62 0.10000E-08
204	3	73	61	73	62 0.10000E-08
205	3	74	61	75	61 0.10000E-08
206	3	75	60	75	61 0.10000E-08
207	3	76	60	76	61 0.10000E-08
208	3	76	60	77	60 0.10000E-08
209	3	77	59	77	60 0.10000E-08
210	3	78	59	78	60 0.10000E-08
211	3	79	59	80	59 0.10000E-08
212	3	80	58	80	59 0.10000E-08
213	3	81	58	81	59 0.10000E-08
214	3	82	58	83	58 0.10000E-08
215	3	83	57	83	58 0.10000E-08
216	3	84	55	85	55 0.10000E-08
217	3	84	54	85	54 0.10000E-08
218	3	84	53	85	53 0.10000E-08
219	3	85	52	85	53 0.10000E-08
220	3	85	51	86	51 0.10000E-08
221	3	85	50	86	50 0.10000E-08
222	3	85	49	86	49 0.10000E-08
223	3	86	48	86	49 0.10000E-08
224	3	86	47	87	47 0.10000E-08
225	3	87	46	87	47 0.10000E-08
226	3	95	46	96	46 0.10000E-08
227	3	96	45	96	46 0.10000E-08
228	3	97	45	97	46 0.10000E-08
229	4	47	92	47	93 0.10000E-08
230	4	46	92	47	92 0.10000E-08
231	4	47	91	47	92 0.10000E-08
232	4	48	91	48	92 0.10000E-08
233	4	48	90	49	90 0.10000E-08
234	4	49	89	49	90 0.10000E-08
235	4	49	89	50	89 0.10000E-08
236	4	50	88	50	89 0.10000E-08



				DRAIN_HIGHK.out		
237	4	50	88	51	88	0.10000E-08
238	4	50	87	51	87	0.10000E-08
239	4	51	86	51	87	0.10000E-08
240	4	51	86	52	86	0.10000E-08
241	4	52	85	52	86	0.10000E-08
242	4	52	85	53	85	0.10000E-08
243	4	53	84	53	85	0.10000E-08
244	4	53	83	54	83	0.10000E-08
245	4	54	82	54	83	0.10000E-08
246	4	54	82	55	82	0.10000E-08
247	4	55	81	55	82	0.10000E-08
248	4	62	81	63	81	0.10000E-08
249	4	63	80	63	81	0.10000E-08
250	4	64	80	64	81	0.10000E-08
251	4	65	80	65	81	0.10000E-08
252	4	66	80	66	81	0.10000E-08
253	4	67	80	67	81	0.10000E-08
254	4	68	80	68	81	0.10000E-08
255	4	69	80	69	81	0.10000E-08
256	4	70	80	70	81	0.10000E-08
257	4	72	80	73	80	0.10000E-08
258	4	72	79	73	79	0.10000E-08
259	4	73	78	73	79	0.10000E-08
260	4	73	78	74	78	0.10000E-08
261	4	73	77	74	77	0.10000E-08
262	4	74	76	74	77	0.10000E-08
263	4	74	75	75	75	0.10000E-08
264	4	75	74	75	75	0.10000E-08
265	4	75	73	76	73	0.10000E-08
266	4	76	72	76	73	0.10000E-08
267	4	76	71	77	71	0.10000E-08
268	4	76	70	77	70	0.10000E-08
269	4	76	69	77	69	0.10000E-08
270	4	76	68	77	68	0.10000E-08
271	4	76	67	77	67	0.10000E-08
272	4	76	66	76	67	0.10000E-08
273	4	75	66	76	66	0.10000E-08
274	4	75	65	75	66	0.10000E-08
275	4	74	65	74	66	0.10000E-08
276	4	73	65	74	65	0.10000E-08
277	4	73	64	73	65	0.10000E-08
278	4	72	64	73	64	0.10000E-08
279	4	72	62	73	62	0.10000E-08
280	4	73	61	73	62	0.10000E-08
281	4	74	61	75	61	0.10000E-08
282	4	75	60	75	61	0.10000E-08
283	4	76	60	76	61	0.10000E-08
284	4	76	60	77	60	0.10000E-08
285	4	77	59	77	60	0.10000E-08
286	4	78	59	78	60	0.10000E-08
287	4	79	59	80	59	0.10000E-08
288	4	80	58	80	59	0.10000E-08
289	4	81	58	81	59	0.10000E-08
290	4	82	58	83	58	0.10000E-08
291	4	83	57	83	58	0.10000E-08
292	4	84	55	85	55	0.10000E-08
293	4	84	54	85	54	0.10000E-08
294	4	84	53	85	53	0.10000E-08
295	4	85	52	85	53	0.10000E-08
296	4	85	51	86	51	0.10000E-08
297	4	85	50	86	50	0.10000E-08
298	4	85	49	86	49	0.10000E-08
299	4	86	48	86	49	0.10000E-08

				DRAIN_HIGHK.out		
300	4	86	47	87	47	0.10000E-08
301	4	87	46	87	47	0.10000E-08
302	4	95	46	96	46	0.10000E-08
303	4	96	45	96	46	0.10000E-08
304	4	97	45	97	46	0.10000E-08
305	5	47	92	47	93	0.10000E-08
306	5	46	92	47	92	0.10000E-08
307	5	47	91	47	92	0.10000E-08
308	5	48	91	48	92	0.10000E-08
309	5	48	90	49	90	0.10000E-08
310	5	49	89	49	90	0.10000E-08
311	5	49	89	50	89	0.10000E-08
312	5	50	88	50	89	0.10000E-08
313	5	50	88	51	88	0.10000E-08
314	5	50	87	51	87	0.10000E-08
315	5	51	86	51	87	0.10000E-08
316	5	51	86	52	86	0.10000E-08
317	5	52	85	52	86	0.10000E-08
318	5	52	85	53	85	0.10000E-08
319	5	53	84	53	85	0.10000E-08
320	5	53	83	54	83	0.10000E-08
321	5	54	82	54	83	0.10000E-08
322	5	54	82	55	82	0.10000E-08
323	5	55	81	55	82	0.10000E-08
324	5	62	81	63	81	0.10000E-08
325	5	63	80	63	81	0.10000E-08
326	5	64	80	64	81	0.10000E-08
327	5	65	80	65	81	0.10000E-08
328	5	66	80	66	81	0.10000E-08
329	5	67	80	67	81	0.10000E-08
330	5	68	80	68	81	0.10000E-08
331	5	69	80	69	81	0.10000E-08
332	5	70	80	70	81	0.10000E-08
333	5	72	80	73	80	0.10000E-08
334	5	72	79	73	79	0.10000E-08
335	5	73	78	73	79	0.10000E-08
336	5	73	78	74	78	0.10000E-08
337	5	73	77	74	77	0.10000E-08
338	5	74	76	74	77	0.10000E-08
339	5	74	75	75	75	0.10000E-08
340	5	75	74	75	75	0.10000E-08
341	5	75	73	76	73	0.10000E-08
342	5	76	72	76	73	0.10000E-08
343	5	76	71	77	71	0.10000E-08
344	5	76	70	77	70	0.10000E-08
345	5	76	69	77	69	0.10000E-08
346	5	76	68	77	68	0.10000E-08
347	5	76	67	77	67	0.10000E-08
348	5	76	66	76	67	0.10000E-08
349	5	75	66	76	66	0.10000E-08
350	5	75	65	75	66	0.10000E-08
351	5	74	65	74	66	0.10000E-08
352	5	73	65	74	65	0.10000E-08
353	5	73	64	73	65	0.10000E-08
354	5	72	64	73	64	0.10000E-08
355	5	72	62	73	62	0.10000E-08
356	5	73	61	73	62	0.10000E-08
357	5	74	61	75	61	0.10000E-08
358	5	75	60	75	61	0.10000E-08
359	5	76	60	76	61	0.10000E-08
360	5	76	60	77	60	0.10000E-08
361	5	77	59	77	60	0.10000E-08
362	5	78	59	78	60	0.10000E-08

					DRAIN_HIGHK.out
363	5	79	59	80	59 0.10000E-08
364	5	80	58	80	59 0.10000E-08
365	5	81	58	81	59 0.10000E-08
366	5	82	58	83	58 0.10000E-08
367	5	83	57	83	58 0.10000E-08
368	5	84	55	85	55 0.10000E-08
369	5	84	54	85	54 0.10000E-08
370	5	84	53	85	53 0.10000E-08
371	5	85	52	85	53 0.10000E-08
372	5	85	51	86	51 0.10000E-08
373	5	85	50	86	50 0.10000E-08
374	5	85	49	86	49 0.10000E-08
375	5	86	48	86	49 0.10000E-08
376	5	86	47	87	47 0.10000E-08
377	5	87	46	87	47 0.10000E-08
378	5	95	46	96	46 0.10000E-08
379	5	96	45	96	46 0.10000E-08
380	5	97	45	97	46 0.10000E-08

# 380 HFB BARRIERS

1

STRESS PERIOD NO. 1, LENGTH = 1.000000

NUMBER OF TIME STEPS = 1

MULTIPLIER FOR DELT = 1.000

INITIAL TIME STEP SIZE = 1.000000

WELL NO. CELLGRP	LAYER	ROW	COL	STRESS RATE	IFACE	QFACT
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1.000	1	5	45	55	-3100.	0.000	1.000
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## 1 WELL

DRAIN NO. CONDFACT	LAYER	ROW CELLGRP	COL	DRAIN EL.	CONDUCTANCE	IFACE
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1	2	97	46	0.000	5272.	6.000
52.72		1.000				
2	3	97	46	0.000	5272.	6.000
52.72		1.000				
3	4	97	46	0.000	5272.	6.000
52.72		1.000				
4	5	97	46	0.000	5272.	6.000
52.72		1.000				
5	2	96	46	0.000	5704.	6.000
57.04		1.000				
6	3	96	46	0.000	5704.	6.000
57.04		1.000				
7	4	96	46	0.000	5704.	6.000
57.04		1.000				
8	5	96	46	0.000	5704.	6.000
57.04		1.000				
9	2	95	46	0.000	5704.	6.000
57.04		1.000				

				DRAIN_HIGHK.out		
10	3	95	46	0.000	5704.	6.000
57.04		1.000				
11	4	95	46	0.000	5704.	6.000
57.04		1.000				
12	5	95	46	0.000	5704.	6.000
57.04		1.000				
13	2	94	46	0.000	5704.	6.000
57.04		1.000				
14	3	94	46	0.000	5704.	6.000
57.04		1.000				
15	4	94	46	0.000	5704.	6.000
57.04		1.000				
16	5	94	46	0.000	5704.	6.000
57.04		1.000				
17	2	93	46	0.000	5704.	6.000
57.04		1.000				
18	3	93	46	0.000	5704.	6.000
57.04		1.000				
19	4	93	46	0.000	5704.	6.000
57.04		1.000				
20	5	93	46	0.000	5704.	6.000
57.04		1.000				
21	2	92	46	0.000	5704.	6.000
57.04		1.000				
22	3	92	46	0.000	5704.	6.000
57.04		1.000				
23	4	92	46	0.000	5704.	6.000
57.04		1.000				
24	5	92	46	0.000	5704.	6.000
57.04		1.000				
25	2	91	46	0.000	5704.	6.000
57.04		1.000				
26	3	91	46	0.000	5704.	6.000
57.04		1.000				
27	4	91	46	0.000	5704.	6.000
57.04		1.000				
28	5	91	46	0.000	5704.	6.000
57.04		1.000				
29	2	90	46	0.000	5704.	6.000
57.04		1.000				
30	3	90	46	0.000	5704.	6.000
57.04		1.000				
31	4	90	46	0.000	5704.	6.000
57.04		1.000				
32	5	90	46	0.000	5704.	6.000
57.04		1.000				
33	2	89	46	0.000	5704.	6.000
57.04		1.000				
34	3	89	46	0.000	5704.	6.000
57.04		1.000				
35	4	89	46	0.000	5704.	6.000
57.04		1.000				
36	5	89	46	0.000	5704.	6.000
57.04		1.000				
37	2	88	46	0.000	5704.	6.000
57.04		1.000				
38	3	88	46	0.000	5704.	6.000
57.04		1.000				
39	4	88	46	0.000	5704.	6.000
57.04		1.000				
40	5	88	46	0.000	5704.	6.000
57.04		1.000				
41	2	87	46	0.000	5914.	6.000

			DRAIN_HIGHK.out			
59.14		1.000				
42	3	87	46	0.000	5914.	6.000
59.14		1.000				
43	4	87	46	0.000	5914.	6.000
59.14		1.000				
44	5	87	46	0.000	5914.	6.000
59.14		1.000				
45	2	87	47	0.000	524.5	6.000
5.245		1.000				
46	3	87	47	0.000	524.5	6.000
5.245		1.000				
47	4	87	47	0.000	524.5	6.000
5.245		1.000				
48	5	87	47	0.000	524.5	6.000
5.245		1.000				
49	2	86	47	0.000	4399.	6.000
43.99		1.000				
50	3	86	47	0.000	4399.	6.000
43.99		1.000				
51	4	86	47	0.000	4399.	6.000
43.99		1.000				
52	5	86	47	0.000	4399.	6.000
43.99		1.000				
53	2	86	48	0.000	4924.	6.000
49.24		1.000				
54	3	86	48	0.000	4924.	6.000
49.24		1.000				
55	4	86	48	0.000	4924.	6.000
49.24		1.000				
56	5	86	48	0.000	4924.	6.000
49.24		1.000				
57	2	86	49	0.000	4924.	6.000
49.24		1.000				
58	3	86	49	0.000	4924.	6.000
49.24		1.000				
59	4	86	49	0.000	4924.	6.000
49.24		1.000				
60	5	86	49	0.000	4924.	6.000
49.24		1.000				
61	2	86	50	0.000	4924.	6.000
49.24		1.000				
62	3	86	50	0.000	4924.	6.000
49.24		1.000				
63	4	86	50	0.000	4924.	6.000
49.24		1.000				
64	5	86	50	0.000	4924.	6.000
49.24		1.000				
65	2	86	51	0.000	1675.	6.000
16.75		1.000				
66	3	86	51	0.000	1675.	6.000
16.75		1.000				
67	4	86	51	0.000	1675.	6.000
16.75		1.000				
68	5	86	51	0.000	1675.	6.000
16.75		1.000				
69	2	85	51	0.000	3249.	6.000
32.49		1.000				
70	3	85	51	0.000	3249.	6.000
32.49		1.000				
71	4	85	51	0.000	3249.	6.000
32.49		1.000				
72	5	85	51	0.000	3249.	6.000
32.49		1.000				

				DRAIN_HIGHK.out		
73	2	85	52	0.000	4924.	6.000
49.24		1.000				
74	3	85	52	0.000	4924.	6.000
49.24		1.000				
75	4	85	52	0.000	4924.	6.000
49.24		1.000				
76	5	85	52	0.000	4924.	6.000
49.24		1.000				
77	2	85	53	0.000	4924.	6.000
49.24		1.000				
78	3	85	53	0.000	4924.	6.000
49.24		1.000				
79	4	85	53	0.000	4924.	6.000
49.24		1.000				
80	5	85	53	0.000	4924.	6.000
49.24		1.000				
81	2	85	54	0.000	4924.	6.000
49.24		1.000				
82	3	85	54	0.000	4924.	6.000
49.24		1.000				
83	4	85	54	0.000	4924.	6.000
49.24		1.000				
84	5	85	54	0.000	4924.	6.000
49.24		1.000				
85	2	85	55	0.000	2825.	6.000
28.25		1.000				
86	3	85	55	0.000	2825.	6.000
28.25		1.000				
87	4	85	55	0.000	2825.	6.000
28.25		1.000				
88	5	85	55	0.000	2825.	6.000
28.25		1.000				
89	2	84	55	0.000	2098.	6.000
20.98		1.000				
90	3	84	55	0.000	2098.	6.000
20.98		1.000				
91	4	84	55	0.000	2098.	6.000
20.98		1.000				
92	5	84	55	0.000	2098.	6.000
20.98		1.000				
93	2	84	56	0.000	4924.	6.000
49.24		1.000				
94	3	84	56	0.000	4924.	6.000
49.24		1.000				
95	4	84	56	0.000	4924.	6.000
49.24		1.000				
96	5	84	56	0.000	4924.	6.000
49.24		1.000				
97	2	84	57	0.000	6836.	6.000
68.36		1.000				
98	3	84	57	0.000	6836.	6.000
68.36		1.000				
99	4	84	57	0.000	6836.	6.000
68.36		1.000				
100	5	84	57	0.000	6836.	6.000
68.36		1.000				
101	2	83	57	0.000	70.83	6.000
0.7083		1.000				
102	3	83	57	0.000	70.83	6.000
0.7083		1.000				
103	4	83	57	0.000	70.83	6.000
0.7083		1.000				
104	5	83	57	0.000	70.83	6.000

			DRAIN_HIGHK.out			
0.7083		1.000				
105	2	83	58	0.000	5904.	6.000
59.04		1.000				
106	3	83	58	0.000	5904.	6.000
59.04		1.000				
107	4	83	58	0.000	5904.	6.000
59.04		1.000				
108	5	83	58	0.000	5904.	6.000
59.04		1.000				
109	2	82	58	0.000	5974.	6.000
59.74		1.000				
110	3	82	58	0.000	5974.	6.000
59.74		1.000				
111	4	82	58	0.000	5974.	6.000
59.74		1.000				
112	5	82	58	0.000	5974.	6.000
59.74		1.000				
113	2	81	58	0.000	3951.	6.000
39.51		1.000				
114	3	81	58	0.000	3951.	6.000
39.51		1.000				
115	4	81	58	0.000	3951.	6.000
39.51		1.000				
116	5	81	58	0.000	3951.	6.000
39.51		1.000				
117	2	81	59	0.000	2023.	6.000
20.23		1.000				
118	3	81	59	0.000	2023.	6.000
20.23		1.000				
119	4	81	59	0.000	2023.	6.000
20.23		1.000				
120	5	81	59	0.000	2023.	6.000
20.23		1.000				
121	2	80	59	0.000	5974.	6.000
59.74		1.000				
122	3	80	59	0.000	5974.	6.000
59.74		1.000				
123	4	80	59	0.000	5974.	6.000
59.74		1.000				
124	5	80	59	0.000	5974.	6.000
59.74		1.000				
125	2	79	59	0.000	5974.	6.000
59.74		1.000				
126	3	79	59	0.000	5974.	6.000
59.74		1.000				
127	4	79	59	0.000	5974.	6.000
59.74		1.000				
128	5	79	59	0.000	5974.	6.000
59.74		1.000				
129	2	78	59	0.000	1857.	6.000
18.57		1.000				
130	3	78	59	0.000	1857.	6.000
18.57		1.000				
131	4	78	59	0.000	1857.	6.000
18.57		1.000				
132	5	78	59	0.000	1857.	6.000
18.57		1.000				
133	2	78	60	0.000	4118.	6.000
41.18		1.000				
134	3	78	60	0.000	4118.	6.000
41.18		1.000				
135	4	78	60	0.000	4118.	6.000
41.18		1.000				

				DRAIN_HIGHK.out		
136	5	78	60	0.000	4118.	6.000
41.18		1.000				
137	2	77	60	0.000	5974.	6.000
59.74		1.000				
138	3	77	60	0.000	5974.	6.000
59.74		1.000				
139	4	77	60	0.000	5974.	6.000
59.74		1.000				
140	5	77	60	0.000	5974.	6.000
59.74		1.000				
141	2	76	60	0.000	5737.	6.000
57.37		1.000				
142	3	76	60	0.000	5737.	6.000
57.37		1.000				
143	4	76	60	0.000	5737.	6.000
57.37		1.000				
144	5	76	60	0.000	5737.	6.000
57.37		1.000				
145	2	76	61	0.000	237.6	6.000
2.376		1.000				
146	3	76	61	0.000	237.6	6.000
2.376		1.000				
147	4	76	61	0.000	237.6	6.000
2.376		1.000				
148	5	76	61	0.000	237.6	6.000
2.376		1.000				
149	2	75	61	0.000	5974.	6.000
59.74		1.000				
150	3	75	61	0.000	5974.	6.000
59.74		1.000				
151	4	75	61	0.000	5974.	6.000
59.74		1.000				
152	5	75	61	0.000	5974.	6.000
59.74		1.000				
153	2	74	61	0.000	5974.	6.000
59.74		1.000				
154	3	74	61	0.000	5974.	6.000
59.74		1.000				
155	4	74	61	0.000	5974.	6.000
59.74		1.000				
156	5	74	61	0.000	5974.	6.000
59.74		1.000				
157	2	73	61	0.000	3643.	6.000
36.43		1.000				
158	3	73	61	0.000	3643.	6.000
36.43		1.000				
159	4	73	61	0.000	3643.	6.000
36.43		1.000				
160	5	73	61	0.000	3643.	6.000
36.43		1.000				
161	2	73	62	0.000	2332.	6.000
23.32		1.000				
162	3	73	62	0.000	2332.	6.000
23.32		1.000				
163	4	73	62	0.000	2332.	6.000
23.32		1.000				
164	5	73	62	0.000	2332.	6.000
23.32		1.000				
165	2	72	62	0.000	4268.	6.000
42.68		1.000				
166	3	72	62	0.000	4268.	6.000
42.68		1.000				
167	4	72	62	0.000	4268.	6.000



			DRAIN_HIGHK.out			
42.68		1.000				
168	5	72	62	0.000	4268.	6.000
42.68		1.000				
169	2	72	63	0.000	4736.	6.000
47.36		1.000				
170	3	72	63	0.000	4736.	6.000
47.36		1.000				
171	4	72	63	0.000	4736.	6.000
47.36		1.000				
172	5	72	63	0.000	4736.	6.000
47.36		1.000				
173	2	72	64	0.000	2786.	6.000
27.86		1.000				
174	3	72	64	0.000	2786.	6.000
27.86		1.000				
175	4	72	64	0.000	2786.	6.000
27.86		1.000				
176	5	72	64	0.000	2786.	6.000
27.86		1.000				
177	2	73	64	0.000	4241.	6.000
42.41		1.000				
178	3	73	64	0.000	4241.	6.000
42.41		1.000				
179	4	73	64	0.000	4241.	6.000
42.41		1.000				
180	5	73	64	0.000	4241.	6.000
42.41		1.000				
181	2	73	65	0.000	2352.	6.000
23.52		1.000				
182	3	73	65	0.000	2352.	6.000
23.52		1.000				
183	4	73	65	0.000	2352.	6.000
23.52		1.000				
184	5	73	65	0.000	2352.	6.000
23.52		1.000				
185	2	74	65	0.000	6592.	6.000
65.92		1.000				
186	3	74	65	0.000	6592.	6.000
65.92		1.000				
187	4	74	65	0.000	6592.	6.000
65.92		1.000				
188	5	74	65	0.000	6592.	6.000
65.92		1.000				
189	2	75	65	0.000	485.5	6.000
4.855		1.000				
190	3	75	65	0.000	485.5	6.000
4.855		1.000				
191	4	75	65	0.000	485.5	6.000
4.855		1.000				
192	5	75	65	0.000	485.5	6.000
4.855		1.000				
193	2	75	66	0.000	6107.	6.000
61.07		1.000				
194	3	75	66	0.000	6107.	6.000
61.07		1.000				
195	4	75	66	0.000	6107.	6.000
61.07		1.000				
196	5	75	66	0.000	6107.	6.000
61.07		1.000				
197	2	76	66	0.000	3323.	6.000
33.23		1.000				
198	3	76	66	0.000	3323.	6.000
33.23		1.000				

				DRAIN_HIGHK.out		
199	4	76	66	0.000	3323.	6.000
33.23		1.000				
200	5	76	66	0.000	3323.	6.000
33.23		1.000				
201	2	76	67	0.000	5578.	6.000
55.78		1.000				
202	3	76	67	0.000	5578.	6.000
55.78		1.000				
203	4	76	67	0.000	5578.	6.000
55.78		1.000				
204	5	76	67	0.000	5578.	6.000
55.78		1.000				
205	2	77	67	0.000	673.0	6.000
6.730		1.000				
206	3	77	67	0.000	673.0	6.000
6.730		1.000				
207	4	77	67	0.000	673.0	6.000
6.730		1.000				
208	5	77	67	0.000	673.0	6.000
6.730		1.000				
209	2	77	68	0.000	4753.	6.000
47.53		1.000				
210	3	77	68	0.000	4753.	6.000
47.53		1.000				
211	4	77	68	0.000	4753.	6.000
47.53		1.000				
212	5	77	68	0.000	4753.	6.000
47.53		1.000				
213	2	77	69	0.000	4753.	6.000
47.53		1.000				
214	3	77	69	0.000	4753.	6.000
47.53		1.000				
215	4	77	69	0.000	4753.	6.000
47.53		1.000				
216	5	77	69	0.000	4753.	6.000
47.53		1.000				
217	2	77	70	0.000	4753.	6.000
47.53		1.000				
218	3	77	70	0.000	4753.	6.000
47.53		1.000				
219	4	77	70	0.000	4753.	6.000
47.53		1.000				
220	5	77	70	0.000	4753.	6.000
47.53		1.000				
221	2	77	71	0.000	2909.	6.000
29.09		1.000				
222	3	77	71	0.000	2909.	6.000
29.09		1.000				
223	4	77	71	0.000	2909.	6.000
29.09		1.000				
224	5	77	71	0.000	2909.	6.000
29.09		1.000				
225	2	76	71	0.000	2476.	6.000
24.76		1.000				
226	3	76	71	0.000	2476.	6.000
24.76		1.000				
227	4	76	71	0.000	2476.	6.000
24.76		1.000				
228	5	76	71	0.000	2476.	6.000
24.76		1.000				
229	2	76	72	0.000	5424.	6.000
54.24		1.000				
230	3	76	72	0.000	5424.	6.000

				DRAIN_HIGHK.out		
54.24		1.000				
231	4	76	72	0.000	5424.	6.000
54.24		1.000				
232	5	76	72	0.000	5424.	6.000
54.24		1.000				
233	2	76	73	0.000	3797.	6.000
37.97		1.000				
234	3	76	73	0.000	3797.	6.000
37.97		1.000				
235	4	76	73	0.000	3797.	6.000
37.97		1.000				
236	5	76	73	0.000	3797.	6.000
37.97		1.000				
237	2	75	73	0.000	1627.	6.000
16.27		1.000				
238	3	75	73	0.000	1627.	6.000
16.27		1.000				
239	4	75	73	0.000	1627.	6.000
16.27		1.000				
240	5	75	73	0.000	1627.	6.000
16.27		1.000				
241	2	75	74	0.000	5424.	6.000
54.24		1.000				
242	3	75	74	0.000	5424.	6.000
54.24		1.000				
243	4	75	74	0.000	5424.	6.000
54.24		1.000				
244	5	75	74	0.000	5424.	6.000
54.24		1.000				
245	2	75	75	0.000	4646.	6.000
46.46		1.000				
246	3	75	75	0.000	4646.	6.000
46.46		1.000				
247	4	75	75	0.000	4646.	6.000
46.46		1.000				
248	5	75	75	0.000	4646.	6.000
46.46		1.000				
249	2	74	75	0.000	777.6	6.000
7.776		1.000				
250	3	74	75	0.000	777.6	6.000
7.776		1.000				
251	4	74	75	0.000	777.6	6.000
7.776		1.000				
252	5	74	75	0.000	777.6	6.000
7.776		1.000				
253	2	74	76	0.000	5424.	6.000
54.24		1.000				
254	3	74	76	0.000	5424.	6.000
54.24		1.000				
255	4	74	76	0.000	5424.	6.000
54.24		1.000				
256	5	74	76	0.000	5424.	6.000
54.24		1.000				
257	2	74	77	0.000	5424.	6.000
54.24		1.000				
258	3	74	77	0.000	5424.	6.000
54.24		1.000				
259	4	74	77	0.000	5424.	6.000
54.24		1.000				
260	5	74	77	0.000	5424.	6.000
54.24		1.000				
261	2	74	78	0.000	71.45	6.000
0.7145		1.000				

				DRAIN_HIGHK.out		
262	3	74	78	0.000	71.45	6.000
0.7145		1.000				
263	4	74	78	0.000	71.45	6.000
0.7145		1.000				
264	5	74	78	0.000	71.45	6.000
0.7145		1.000				
265	2	73	78	0.000	5352.	6.000
53.52		1.000				
266	3	73	78	0.000	5352.	6.000
53.52		1.000				
267	4	73	78	0.000	5352.	6.000
53.52		1.000				
268	5	73	78	0.000	5352.	6.000
53.52		1.000				
269	2	73	79	0.000	5424.	6.000
54.24		1.000				
270	3	73	79	0.000	5424.	6.000
54.24		1.000				
271	4	73	79	0.000	5424.	6.000
54.24		1.000				
272	5	73	79	0.000	5424.	6.000
54.24		1.000				
273	2	73	80	0.000	920.5	6.000
9.205		1.000				
274	3	73	80	0.000	920.5	6.000
9.205		1.000				
275	4	73	80	0.000	920.5	6.000
9.205		1.000				
276	5	73	80	0.000	920.5	6.000
9.205		1.000				
277	2	72	80	0.000	7613.	6.000
76.13		1.000				
278	3	72	80	0.000	7613.	6.000
76.13		1.000				
279	4	72	80	0.000	7613.	6.000
76.13		1.000				
280	5	72	80	0.000	7613.	6.000
76.13		1.000				
281	2	71	80	0.000	5709.	6.000
57.09		1.000				
282	3	71	80	0.000	5709.	6.000
57.09		1.000				
283	4	71	80	0.000	5709.	6.000
57.09		1.000				
284	5	71	80	0.000	5709.	6.000
57.09		1.000				
285	2	70	80	0.000	3324.	6.000
33.24		1.000				
286	3	70	80	0.000	3324.	6.000
33.24		1.000				
287	4	70	80	0.000	3324.	6.000
33.24		1.000				
288	5	70	80	0.000	3324.	6.000
33.24		1.000				
289	2	70	81	0.000	2385.	6.000
23.85		1.000				
290	3	70	81	0.000	2385.	6.000
23.85		1.000				
291	4	70	81	0.000	2385.	6.000
23.85		1.000				
292	5	70	81	0.000	2385.	6.000
23.85		1.000				
293	2	69	81	0.000	5709.	6.000

			DRAIN_HIGHK.out			
57.09		1.000				
294	3	69	81	0.000	5709.	6.000
57.09		1.000				
295	4	69	81	0.000	5709.	6.000
57.09		1.000				
296	5	69	81	0.000	5709.	6.000
57.09		1.000				
297	2	68	81	0.000	5709.	6.000
57.09		1.000				
298	3	68	81	0.000	5709.	6.000
57.09		1.000				
299	4	68	81	0.000	5709.	6.000
57.09		1.000				
300	5	68	81	0.000	5709.	6.000
57.09		1.000				
301	2	67	81	0.000	5709.	6.000
57.09		1.000				
302	3	67	81	0.000	5709.	6.000
57.09		1.000				
303	4	67	81	0.000	5709.	6.000
57.09		1.000				
304	5	67	81	0.000	5709.	6.000
57.09		1.000				
305	2	66	81	0.000	5709.	6.000
57.09		1.000				
306	3	66	81	0.000	5709.	6.000
57.09		1.000				
307	4	66	81	0.000	5709.	6.000
57.09		1.000				
308	5	66	81	0.000	5709.	6.000
57.09		1.000				
309	2	65	81	0.000	5709.	6.000
57.09		1.000				
310	3	65	81	0.000	5709.	6.000
57.09		1.000				
311	4	65	81	0.000	5709.	6.000
57.09		1.000				
312	5	65	81	0.000	5709.	6.000
57.09		1.000				
313	2	64	81	0.000	5709.	6.000
57.09		1.000				
314	3	64	81	0.000	5709.	6.000
57.09		1.000				
315	4	64	81	0.000	5709.	6.000
57.09		1.000				
316	5	64	81	0.000	5709.	6.000
57.09		1.000				
317	2	63	81	0.000	5709.	6.000
57.09		1.000				
318	3	63	81	0.000	5709.	6.000
57.09		1.000				
319	4	63	81	0.000	5709.	6.000
57.09		1.000				
320	5	63	81	0.000	5709.	6.000
57.09		1.000				
321	2	62	81	0.000	5709.	6.000
57.09		1.000				
322	3	62	81	0.000	5709.	6.000
57.09		1.000				
323	4	62	81	0.000	5709.	6.000
57.09		1.000				
324	5	62	81	0.000	5709.	6.000
57.09		1.000				

				DRAIN_HIGHK.out		
325	2	61	81	0.000	5709.	6.000
57.09		1.000				
326	3	61	81	0.000	5709.	6.000
57.09		1.000				
327	4	61	81	0.000	5709.	6.000
57.09		1.000				
328	5	61	81	0.000	5709.	6.000
57.09		1.000				
329	2	60	81	0.000	5709.	6.000
57.09		1.000				
330	3	60	81	0.000	5709.	6.000
57.09		1.000				
331	4	60	81	0.000	5709.	6.000
57.09		1.000				
332	5	60	81	0.000	5709.	6.000
57.09		1.000				
333	2	59	81	0.000	5709.	6.000
57.09		1.000				
334	3	59	81	0.000	5709.	6.000
57.09		1.000				
335	4	59	81	0.000	5709.	6.000
57.09		1.000				
336	5	59	81	0.000	5709.	6.000
57.09		1.000				
337	2	58	81	0.000	5709.	6.000
57.09		1.000				
338	3	58	81	0.000	5709.	6.000
57.09		1.000				
339	4	58	81	0.000	5709.	6.000
57.09		1.000				
340	5	58	81	0.000	5709.	6.000
57.09		1.000				
341	2	57	81	0.000	5709.	6.000
57.09		1.000				
342	3	57	81	0.000	5709.	6.000
57.09		1.000				
343	4	57	81	0.000	5709.	6.000
57.09		1.000				
344	5	57	81	0.000	5709.	6.000
57.09		1.000				
345	2	56	81	0.000	5709.	6.000
57.09		1.000				
346	3	56	81	0.000	5709.	6.000
57.09		1.000				
347	4	56	81	0.000	5709.	6.000
57.09		1.000				
348	5	56	81	0.000	5709.	6.000
57.09		1.000				
349	2	55	81	0.000	3296.	6.000
32.96		1.000				
350	3	55	81	0.000	3296.	6.000
32.96		1.000				
351	4	55	81	0.000	3296.	6.000
32.96		1.000				
352	5	55	81	0.000	3296.	6.000
32.96		1.000				
353	2	55	82	0.000	3817.	6.000
38.17		1.000				
354	3	55	82	0.000	3817.	6.000
38.17		1.000				
355	4	55	82	0.000	3817.	6.000
38.17		1.000				
356	5	55	82	0.000	3817.	6.000

DRAIN_HIGHK.out						
38.17		1.000				
357	2	54	82	0.000	2467.	6.000
24.67		1.000				
358	3	54	82	0.000	2467.	6.000
24.67		1.000				
359	4	54	82	0.000	2467.	6.000
24.67		1.000				
360	5	54	82	0.000	2467.	6.000
24.67		1.000				
361	2	54	83	0.000	6207.	6.000
62.07		1.000				
362	3	54	83	0.000	6207.	6.000
62.07		1.000				
363	4	54	83	0.000	6207.	6.000
62.07		1.000				
364	5	54	83	0.000	6207.	6.000
62.07		1.000				
365	2	53	83	0.000	77.12	6.000
0.7712		1.000				
366	3	53	83	0.000	77.12	6.000
0.7712		1.000				
367	4	53	83	0.000	77.12	6.000
0.7712		1.000				
368	5	53	83	0.000	77.12	6.000
0.7712		1.000				
369	2	53	84	0.000	6284.	6.000
62.84		1.000				
370	3	53	84	0.000	6284.	6.000
62.84		1.000				
371	4	53	84	0.000	6284.	6.000
62.84		1.000				
372	5	53	84	0.000	6284.	6.000
62.84		1.000				
373	2	53	85	0.000	2312.	6.000
23.12		1.000				
374	3	53	85	0.000	2312.	6.000
23.12		1.000				
375	4	53	85	0.000	2312.	6.000
23.12		1.000				
376	5	53	85	0.000	2312.	6.000
23.12		1.000				
377	2	52	85	0.000	3972.	6.000
39.72		1.000				
378	3	52	85	0.000	3972.	6.000
39.72		1.000				
379	4	52	85	0.000	3972.	6.000
39.72		1.000				
380	5	52	85	0.000	3972.	6.000
39.72		1.000				
381	2	52	86	0.000	4702.	6.000
47.02		1.000				
382	3	52	86	0.000	4702.	6.000
47.02		1.000				
383	4	52	86	0.000	4702.	6.000
47.02		1.000				
384	5	52	86	0.000	4702.	6.000
47.02		1.000				
385	2	51	86	0.000	1582.	6.000
15.82		1.000				
386	3	51	86	0.000	1582.	6.000
15.82		1.000				
387	4	51	86	0.000	1582.	6.000
15.82		1.000				

				DRAIN_HIGHK.out		
388	5	51	86	0.000	1582.	6.000
15.82		1.000				
389	2	51	87	0.000	6284.	6.000
62.84		1.000				
390	3	51	87	0.000	6284.	6.000
62.84		1.000				
391	4	51	87	0.000	6284.	6.000
62.84		1.000				
392	5	51	87	0.000	6284.	6.000
62.84		1.000				
393	2	51	88	0.000	807.2	6.000
8.072		1.000				
394	3	51	88	0.000	807.2	6.000
8.072		1.000				
395	4	51	88	0.000	807.2	6.000
8.072		1.000				
396	5	51	88	0.000	807.2	6.000
8.072		1.000				
397	2	50	88	0.000	5477.	6.000
54.77		1.000				
398	3	50	88	0.000	5477.	6.000
54.77		1.000				
399	4	50	88	0.000	5477.	6.000
54.77		1.000				
400	5	50	88	0.000	5477.	6.000
54.77		1.000				
401	2	50	89	0.000	3197.	6.000
31.97		1.000				
402	3	50	89	0.000	3197.	6.000
31.97		1.000				
403	4	50	89	0.000	3197.	6.000
31.97		1.000				
404	5	50	89	0.000	3197.	6.000
31.97		1.000				
405	2	49	89	0.000	3087.	6.000
30.87		1.000				
406	3	49	89	0.000	3087.	6.000
30.87		1.000				
407	4	49	89	0.000	3087.	6.000
30.87		1.000				
408	5	49	89	0.000	3087.	6.000
30.87		1.000				
409	2	49	90	0.000	5586.	6.000
55.86		1.000				
410	3	49	90	0.000	5586.	6.000
55.86		1.000				
411	4	49	90	0.000	5586.	6.000
55.86		1.000				
412	5	49	90	0.000	5586.	6.000
55.86		1.000				
413	2	48	90	0.000	697.8	6.000
6.978		1.000				
414	3	48	90	0.000	697.8	6.000
6.978		1.000				
415	4	48	90	0.000	697.8	6.000
6.978		1.000				
416	5	48	90	0.000	697.8	6.000
6.978		1.000				
417	2	48	91	0.000	6284.	6.000
62.84		1.000				
418	3	48	91	0.000	6284.	6.000
62.84		1.000				
419	4	48	91	0.000	6284.	6.000



DRAIN_HIGHK.out						
62.84		1.000				
420	5	48	91	0.000	6284.	6.000
62.84		1.000				
421	2	48	92	0.000	1692.	6.000
16.92		1.000				
422	3	48	92	0.000	1692.	6.000
16.92		1.000				
423	4	48	92	0.000	1692.	6.000
16.92		1.000				
424	5	48	92	0.000	1692.	6.000
16.92		1.000				
425	2	47	92	0.000	4592.	6.000
45.92		1.000				
426	3	47	92	0.000	4592.	6.000
45.92		1.000				
427	4	47	92	0.000	4592.	6.000
45.92		1.000				
428	5	47	92	0.000	4592.	6.000
45.92		1.000				
429	2	47	93	0.000	114.5	6.000
1.145		1.000				
430	3	47	93	0.000	114.5	6.000
1.145		1.000				
431	4	47	93	0.000	114.5	6.000
1.145		1.000				
432	5	47	93	0.000	114.5	6.000
1.145		1.000				

# 432 DRAINS

BOUND.	NO.	LAYER	ROW	COL	STAGE	CONDUCTANCE	IFACE
CONDFACT			CELLGRP				
0.6643	1	5	18	74	3700.	3.986	6.000
			1.000				
47.45	2	5	18	73	3700.	284.7	6.000
			1.000				
47.45	3	5	18	72	3700.	284.7	6.000
			1.000				
47.45	4	5	18	71	3700.	284.7	6.000
			1.000				
47.45	5	5	18	70	3700.	284.7	6.000
			1.000				
47.45	6	5	18	69	3700.	284.7	6.000
			1.000				
47.45	7	5	18	68	3700.	284.7	6.000
			1.000				
47.45	8	5	18	67	3700.	150.4	6.000
			1.000				
25.07	9	5	17	67	3700.	134.3	6.000
			1.000				
22.38	10	5	17	66	3700.	284.7	6.000
			1.000				
47.45	11	5	17	65	3701.	284.7	6.000
			1.000				
47.45	12	5	17	64	3701.	284.7	6.000
			1.000				
47.45	13	5	17	63	3701.	284.7	6.000
			1.000				
47.45	14	5	17	62	3701.	284.7	6.000
			1.000				

				DRAIN_HIGHK.out		
15	5	17	61	3701.	284.7	6.000
47.45		1.000				
16	5	17	60	3701.	284.7	6.000
47.45		1.000				
17	5	17	59	3701.	284.7	6.000
47.45		1.000				
18	5	17	58	3701.	284.7	6.000
47.45		1.000				
19	5	17	57	3701.	284.7	6.000
47.45		1.000				
20	5	17	56	3701.	231.7	6.000
38.62		1.000				
21	5	16	56	3701.	342.6	6.000
57.10		1.000				
22	5	15	56	3701.	342.6	6.000
57.10		1.000				
23	5	14	56	3701.	342.6	6.000
57.10		1.000				
24	5	13	56	3701.	223.0	6.000
37.17		1.000				
25	5	13	57	3701.	119.6	6.000
19.93		1.000				
26	5	12	57	3702.	342.6	6.000
57.10		1.000				
27	5	11	57	3702.	342.6	6.000
57.10		1.000				
28	5	10	57	3702.	342.6	6.000
57.10		1.000				
29	5	9	57	3702.	342.6	6.000
57.10		1.000				
30	5	8	57	3702.	342.6	6.000
57.10		1.000				
31	5	7	57	3702.	342.6	6.000
57.10		1.000				
32	5	6	57	3702.	342.6	6.000
57.10		1.000				
33	5	5	57	3702.	342.6	6.000
57.10		1.000				
34	5	4	57	3702.	342.6	6.000
57.10		1.000				
35	5	3	57	3702.	236.3	6.000
39.39		1.000				
36	5	3	56	3702.	284.4	6.000
47.40		1.000				
37	5	3	55	3702.	284.4	6.000
47.40		1.000				
38	5	3	54	3702.	284.4	6.000
47.40		1.000				
39	5	3	53	3702.	284.4	6.000
47.40		1.000				
40	5	3	52	3703.	284.4	6.000
47.40		1.000				
41	5	3	51	3703.	284.4	6.000
47.40		1.000				
42	5	3	50	3703.	284.4	6.000
47.40		1.000				
43	5	3	49	3703.	284.4	6.000
47.40		1.000				
44	5	3	48	3703.	284.4	6.000
47.40		1.000				
45	5	3	47	3703.	284.4	6.000
47.40		1.000				
46	5	3	46	3703.	284.4	6.000

## DRAIN\_HIGHK.out

47.40		1.000				
47	5	3	45	3703.	284.4	6.000
47.40		1.000				
48	5	3	44	3703.	284.4	6.000
47.40		1.000				
49	5	3	43	3703.	284.4	6.000
47.40		1.000				
50	5	3	42	3703.	284.4	6.000
47.40		1.000				
51	5	3	41	3703.	284.4	6.000
47.40		1.000				
52	5	3	40	3703.	284.4	6.000
47.40		1.000				
53	5	3	39	3703.	284.4	6.000
47.40		1.000				
54	5	3	38	3703.	284.4	6.000
47.40		1.000				
55	5	3	37	3704.	284.4	6.000
47.40		1.000				
56	5	3	36	3704.	284.4	6.000
47.40		1.000				
57	5	3	35	3704.	284.4	6.000
47.40		1.000				
58	5	3	34	3704.	258.2	6.000
43.03		1.000				
59	5	2	34	3704.	26.26	6.000
4.377		1.000				
60	5	2	33	3704.	284.4	6.000
47.40		1.000				
61	5	2	32	3704.	284.4	6.000
47.40		1.000				
62	5	2	31	3704.	284.4	6.000
47.40		1.000				
63	5	2	30	3704.	284.4	6.000
47.40		1.000				
64	5	2	29	3704.	284.4	6.000
47.40		1.000				
65	5	2	28	3704.	284.4	6.000
47.40		1.000				
66	5	2	27	3704.	284.4	6.000
47.40		1.000				
67	5	2	26	3704.	284.4	6.000
47.40		1.000				
68	5	2	25	3704.	284.4	6.000
47.40		1.000				
69	5	2	24	3704.	284.4	6.000
47.40		1.000				
70	5	2	23	3704.	284.4	6.000
47.40		1.000				
71	5	2	22	3704.	284.4	6.000
47.40		1.000				
72	5	2	21	3705.	284.4	6.000
47.40		1.000				
73	5	2	20	3705.	284.4	6.000
47.40		1.000				
74	5	2	19	3705.	284.4	6.000
47.40		1.000				
75	5	2	18	3705.	284.4	6.000
47.40		1.000				
76	5	2	17	3705.	284.4	6.000
47.40		1.000				
77	5	2	16	3705.	284.4	6.000
47.40		1.000				

				DRAIN_HIGHK.out		
78	5	2	15	3705.	284.4	6.000
47.40		1.000				
79	5	2	14	3705.	49.38	6.000
8.229		1.000				
80	5	66	28	3711.	592.8	6.000
12.94		2.000				
81	5	65	28	3711.	2615.	6.000
57.09		2.000				
82	5	64	28	3711.	2615.	6.000
57.09		2.000				
83	5	63	28	3711.	2615.	6.000
57.09		2.000				
84	5	62	28	3711.	2615.	6.000
57.09		2.000				
85	5	61	28	3711.	2330.	6.000
50.86		2.000				
86	5	61	29	3711.	285.0	6.000
6.221		2.000				
87	5	60	29	3710.	2615.	6.000
57.09		2.000				
88	5	59	29	3710.	2615.	6.000
57.09		2.000				
89	5	58	29	3710.	2615.	6.000
57.09		2.000				
90	5	57	29	3710.	2615.	6.000
57.09		2.000				
91	5	56	29	3710.	2615.	6.000
57.09		2.000				
92	5	55	29	3710.	2615.	6.000
57.09		2.000				
93	5	54	29	3710.	2615.	6.000
57.09		2.000				
94	5	53	29	3710.	2615.	6.000
57.09		2.000				
95	5	52	29	3710.	2615.	6.000
57.09		2.000				
96	5	51	29	3710.	2615.	6.000
57.09		2.000				
97	5	50	29	3710.	2615.	6.000
57.09		2.000				
98	5	49	29	3709.	2615.	6.000
57.09		2.000				
99	5	48	29	3709.	2615.	6.000
57.09		2.000				
100	5	47	29	3709.	2615.	6.000
57.09		2.000				
101	5	46	29	3709.	2615.	6.000
57.09		2.000				
102	5	45	29	3709.	2099.	6.000
45.82		2.000				
103	5	45	30	3709.	516.0	6.000
11.27		2.000				
104	5	44	30	3709.	2615.	6.000
57.09		2.000				
105	5	43	30	3709.	2615.	6.000
57.09		2.000				
106	5	42	30	3709.	2615.	6.000
57.09		2.000				
107	5	41	30	3709.	2615.	6.000
57.09		2.000				
108	5	40	30	3709.	2615.	6.000
57.09		2.000				
109	5	39	30	3709.	2615.	6.000

			DRAIN_HIGHK.out		
57.09		2.000			
110	5	38	30	3709.	2615. 6.000
57.09		2.000			
111	5	37	30	3708.	2615. 6.000
57.09		2.000			
112	5	36	30	3708.	2615. 6.000
57.09		2.000			
113	5	35	30	3708.	2615. 6.000
57.09		2.000			
114	5	34	30	3708.	2615. 6.000
57.09		2.000			
115	5	33	30	3708.	2615. 6.000
57.09		2.000			
116	5	32	30	3708.	2615. 6.000
57.09		2.000			
117	5	31	30	3708.	2689. 6.000
58.69		2.000			
118	5	30	30	3708.	2874. 6.000
62.75		2.000			
119	5	29	30	3708.	847.6 6.000
18.50		2.000			
120	5	29	29	3708.	2027. 6.000
44.25		2.000			
121	5	28	29	3708.	2874. 6.000
62.75		2.000			
122	5	27	29	3708.	289.3 6.000
6.315		2.000			
123	5	27	28	3707.	2585. 6.000
56.44		2.000			
124	5	26	28	3707.	2605. 6.000
56.88		2.000			
125	5	26	27	3707.	269.1 6.000
5.875		2.000			
126	5	25	27	3707.	2874. 6.000
62.75		2.000			
127	5	24	27	3707.	2047. 6.000
44.69		2.000			
128	5	24	26	3707.	827.5 6.000
18.07		2.000			
129	5	23	26	3707.	2874. 6.000
62.75		2.000			
130	5	22	26	3707.	1488. 6.000
32.50		2.000			
131	5	22	25	3707.	1386. 6.000
30.26		2.000			
132	5	21	25	3707.	2874. 6.000
62.75		2.000			
133	5	20	25	3707.	930.1 6.000
20.31		2.000			
134	5	20	24	3707.	1944. 6.000
42.45		2.000			
135	5	19	24	3707.	2874. 6.000
62.75		2.000			
136	5	18	24	3707.	371.8 6.000
8.116		2.000			
137	5	18	23	3707.	2503. 6.000
54.64		2.000			
138	5	17	23	3707.	2688. 6.000
58.68		2.000			
139	5	17	22	3706.	186.6 6.000
4.074		2.000			
140	5	16	22	3706.	2874. 6.000
62.75		2.000			

				DRAIN_HIGHK.out		
141	5	15	22	3706.	2129.	6.000
46.49		2.000				
142	5	15	21	3706.	745.0	6.000
16.26		2.000				
143	5	14	21	3706.	2874.	6.000
62.75		2.000				
144	5	13	21	3706.	1571.	6.000
34.30		2.000				
145	5	13	20	3706.	1303.	6.000
28.45		2.000				
146	5	12	20	3706.	2874.	6.000
62.75		2.000				
147	5	11	20	3706.	1013.	6.000
22.11		2.000				
148	5	11	19	3706.	1862.	6.000
40.64		2.000				
149	5	10	19	3706.	2874.	6.000
62.75		2.000				
150	5	9	19	3706.	454.3	6.000
9.917		2.000				
151	5	9	18	3706.	2420.	6.000
52.83		2.000				
152	5	8	18	3706.	2770.	6.000
60.48		2.000				
153	5	8	17	3706.	104.1	6.000
2.273		2.000				
154	5	7	17	3706.	2874.	6.000
62.75		2.000				
155	5	6	17	3705.	2212.	6.000
48.29		2.000				
156	5	6	16	3705.	662.5	6.000
14.46		2.000				
157	5	5	16	3705.	2874.	6.000
62.75		2.000				
158	5	4	16	3705.	1653.	6.000
36.10		2.000				
159	5	4	15	3705.	1221.	6.000
26.65		2.000				
160	5	3	15	3705.	2874.	6.000
62.75		2.000				
161	5	2	15	3705.	1095.	6.000
23.91		2.000				
162	5	2	14	3705.	901.1	6.000
19.67		2.000				
163	5	97	46	3704.	1813.	6.000
32.08		3.000				
164	5	97	45	3704.	2081.	6.000
36.84		3.000				
165	5	96	45	3704.	2069.	6.000
36.62		3.000				
166	5	96	44	3704.	2144.	6.000
37.95		3.000				
167	5	95	44	3704.	2006.	6.000
35.51		3.000				
168	5	95	43	3705.	2207.	6.000
39.06		3.000				
169	5	94	43	3705.	1943.	6.000
34.40		3.000				
170	5	94	42	3705.	2270.	6.000
40.17		3.000				
171	5	93	42	3705.	1880.	6.000
33.29		3.000				
172	5	93	41	3705.	2332.	6.000

## DRAIN\_HIGHK.out

41.29		3.000				
173	5	92	41	3705.	1818.	6.000
32.17		3.000				
174	5	92	40	3705.	2395.	6.000
42.40		3.000				
175	5	91	40	3705.	1755.	6.000
31.06		3.000				
176	5	91	39	3705.	2458.	6.000
43.51		3.000				
177	5	90	39	3706.	1692.	6.000
29.95		3.000				
178	5	90	38	3706.	2521.	6.000
44.62		3.000				
179	5	89	38	3706.	1629.	6.000
28.84		3.000				
180	5	89	37	3706.	2584.	6.000
45.74		3.000				
181	5	88	37	3706.	1566.	6.000
27.72		3.000				
182	5	88	36	3706.	2647.	6.000
46.85		3.000				
183	5	87	36	3706.	3262.	6.000
57.74		3.000				
184	5	86	36	3706.	3223.	6.000
57.05		3.000				
185	5	85	36	3707.	3223.	6.000
57.05		3.000				
186	5	84	36	3707.	3223.	6.000
57.05		3.000				
187	5	83	36	3707.	3223.	6.000
57.05		3.000				
188	5	82	36	3707.	3223.	6.000
57.05		3.000				
189	5	81	36	3707.	3223.	6.000
57.05		3.000				
190	5	80	36	3707.	3223.	6.000
57.05		3.000				
191	5	79	36	3708.	3223.	6.000
57.05		3.000				
192	5	78	36	3708.	3223.	6.000
57.05		3.000				
193	5	77	36	3708.	3223.	6.000
57.05		3.000				
194	5	76	36	3708.	3223.	6.000
57.05		3.000				
195	5	75	36	3708.	3223.	6.000
57.05		3.000				
196	5	74	36	3708.	3223.	6.000
57.05		3.000				
197	5	73	36	3709.	3223.	6.000
57.05		3.000				
198	5	72	36	3709.	1681.	6.000
29.76		3.000				
199	5	72	37	3709.	1541.	6.000
27.28		3.000				
200	5	71	37	3709.	3223.	6.000
57.05		3.000				
201	5	70	37	3709.	3223.	6.000
57.05		3.000				
202	5	69	37	3709.	3223.	6.000
57.05		3.000				
203	5	68	37	3709.	3223.	6.000
57.05		3.000				

				DRAIN_HIGHK.out		
204	5	67	37	3710.	3223.	6.000
57.05		3.000				
205	5	66	37	3710.	1527.	6.000
27.03		3.000				
206	5	66	36	3710.	2682.	6.000
47.48		3.000				
207	5	66	35	3710.	2682.	6.000
47.48		3.000				
208	5	66	34	3710.	2682.	6.000
47.48		3.000				
209	5	66	33	3710.	2682.	6.000
47.48		3.000				
210	5	66	32	3710.	2682.	6.000
47.48		3.000				
211	5	66	31	3711.	2682.	6.000
47.48		3.000				
212	5	66	30	3711.	2682.	6.000
47.48		3.000				
213	5	66	29	3711.	2682.	6.000
47.48		3.000				
214	5	66	28	3711.	862.7	6.000
15.27		3.000				
215	5	47	93	3705.	0.1811E-01	6.000
1.811		4.000				
216	5	47	92	3705.	0.2785	6.000
27.85		4.000				
217	5	46	92	3705.	0.6485	6.000
64.85		4.000				
218	5	45	92	3705.	0.6669E-01	6.000
6.669		4.000				
219	5	45	91	3705.	0.5818	6.000
58.18		4.000				
220	5	44	91	3705.	0.4118	6.000
41.18		4.000				
221	5	44	90	3704.	0.2366	6.000
23.66		4.000				
222	5	43	90	3704.	0.6485	6.000
64.85		4.000				
223	5	42	90	3704.	0.1085	6.000
10.85		4.000				
224	5	42	89	3704.	0.5400	6.000
54.00		4.000				
225	5	41	89	3704.	0.4536	6.000
45.36		4.000				
226	5	41	88	3704.	0.1948	6.000
19.48		4.000				
227	5	40	88	3704.	0.6485	6.000
64.85		4.000				
228	5	39	88	3704.	0.1503	6.000
15.03		4.000				
229	5	39	87	3704.	0.4982	6.000
49.82		4.000				
230	5	38	87	3703.	0.4954	6.000
49.54		4.000				
231	5	38	86	3703.	0.1530	6.000
15.30		4.000				
232	5	37	86	3703.	0.6485	6.000
64.85		4.000				
233	5	36	86	3703.	0.1921	6.000
19.21		4.000				
234	5	36	85	3703.	0.4564	6.000
45.64		4.000				
235	5	35	85	3703.	0.5372	6.000



## DRAIN\_HIGHK.out

53.72		4.000				
236	5	35	84	3703.	0.1112	6.000
11.12		4.000				
237	5	34	84	3703.	0.6485	6.000
64.85		4.000				
238	5	33	84	3703.	0.2339	6.000
23.39		4.000				
239	5	33	83	3703.	0.4146	6.000
41.46		4.000				
240	5	32	83	3702.	0.5790	6.000
57.90		4.000				
241	5	32	82	3702.	0.6944E-01	6.000
6.944		4.000				
242	5	31	82	3702.	0.6485	6.000
64.85		4.000				
243	5	30	82	3702.	0.2757	6.000
27.57		4.000				
244	5	30	81	3702.	0.3728	6.000
37.28		4.000				
245	5	29	81	3702.	0.6208	6.000
62.08		4.000				
246	5	29	80	3702.	0.2763E-01	6.000
2.763		4.000				
247	5	28	80	3702.	0.6485	6.000
64.85		4.000				
248	5	27	80	3702.	0.3175	6.000
31.75		4.000				
249	5	27	79	3702.	0.3310	6.000
33.10		4.000				
250	5	26	79	3701.	0.6485	6.000
64.85		4.000				
251	5	25	79	3701.	0.1417E-01	6.000
1.417		4.000				
252	5	25	78	3701.	0.6343	6.000
63.43		4.000				
253	5	24	78	3701.	0.3593	6.000
35.93		4.000				
254	5	24	77	3701.	0.2892	6.000
28.92		4.000				
255	5	23	77	3701.	0.6485	6.000
64.85		4.000				
256	5	22	77	3701.	0.5597E-01	6.000
5.597		4.000				
257	5	22	76	3701.	0.5925	6.000
59.25		4.000				
258	5	21	76	3701.	0.4011	6.000
40.11		4.000				
259	5	21	75	3700.	0.2474	6.000
24.74		4.000				
260	5	20	75	3700.	0.6485	6.000
64.85		4.000				
261	5	19	75	3700.	0.9778E-01	6.000
9.778		4.000				
262	5	19	74	3700.	0.5507	6.000
55.07		4.000				
263	5	18	74	3700.	0.4290	6.000
42.90		4.000				

263 GHB CELLS

CHD NO.	LAYER	ROW	COL	START HEAD	END HEAD
1	1	47	93	690.6	690.6

				DRAIN_HIGHK.out	
2	1	47	92	1110.	1110.
3	1	48	92	1783.	1783.
4	1	48	91	1784.	1784.
5	1	48	90	1785.	1785.
6	1	49	90	1785.	1785.
7	1	49	89	1786.	1786.
8	1	50	89	1786.	1786.
9	1	50	88	1787.	1787.
10	1	51	88	1787.	1787.
11	1	51	87	1788.	1788.
12	1	51	86	1789.	1789.
13	1	52	86	1789.	1789.
14	1	52	85	1790.	1790.
15	1	53	85	1790.	1790.
16	1	53	84	1791.	1791.
17	1	53	83	1792.	1792.
18	1	54	83	1792.	1792.
19	1	54	82	1793.	1793.
20	1	55	82	1793.	1793.
21	1	55	81	1794.	1794.
22	1	56	81	1795.	1795.
23	1	57	81	1796.	1796.
24	1	58	81	1796.	1796.
25	1	59	81	1797.	1797.
26	1	60	81	1798.	1798.
27	1	61	81	1799.	1799.
28	1	62	81	1800.	1800.
29	1	63	81	1801.	1801.
30	1	64	81	1802.	1802.
31	1	65	81	1803.	1803.
32	1	66	81	1804.	1804.
33	1	67	81	1805.	1805.
34	1	68	81	1806.	1806.
35	1	69	81	1807.	1807.
36	1	70	81	1807.	1807.
37	1	70	80	1808.	1808.
38	1	71	80	1808.	1808.
39	1	72	80	1809.	1809.
40	1	73	80	1810.	1810.
41	1	73	79	1811.	1811.
42	1	73	78	1811.	1811.
43	1	74	78	1812.	1812.
44	1	74	77	1812.	1812.
45	1	74	76	1813.	1813.
46	1	74	75	1814.	1814.
47	1	75	75	1814.	1814.
48	1	75	74	1815.	1815.
49	1	75	73	1816.	1816.
50	1	76	73	1816.	1816.
51	1	76	72	1817.	1817.
52	1	76	71	1817.	1817.
53	1	77	71	1818.	1818.
54	1	77	70	1818.	1818.
55	1	77	69	1819.	1819.
56	1	77	68	1820.	1820.
57	1	77	67	1820.	1820.
58	1	76	67	1821.	1821.
59	1	76	66	1822.	1822.
60	1	75	66	1822.	1822.
61	1	75	65	1823.	1823.
62	1	74	65	1823.	1823.
63	1	73	65	1824.	1824.
64	1	73	64	1825.	1825.

				DRAIN_HIGHK.out	
65	1	72	64	1825.	1825.
66	1	72	63	1826.	1826.
67	1	72	62	1827.	1827.
68	1	73	62	1827.	1827.
69	1	73	61	1828.	1828.
70	1	74	61	1828.	1828.
71	1	75	61	1829.	1829.
72	1	76	61	1830.	1830.
73	1	76	60	1830.	1830.
74	1	77	60	1831.	1831.
75	1	78	60	1832.	1832.
76	1	78	59	1832.	1832.
77	1	79	59	1833.	1833.
78	1	80	59	1834.	1834.
79	1	81	59	1835.	1835.
80	1	81	58	1835.	1835.
81	1	82	58	1836.	1836.
82	1	83	58	1837.	1837.
83	1	83	57	1837.	1837.
84	1	84	57	1838.	1838.
85	1	84	56	1839.	1839.
86	1	84	55	1839.	1839.
87	1	85	55	1840.	1840.
88	1	85	54	1840.	1840.
89	1	85	53	1841.	1841.
90	1	85	52	1842.	1842.
91	1	85	51	1843.	1843.
92	1	86	51	1843.	1843.
93	1	86	50	1844.	1844.
94	1	86	49	1844.	1844.
95	1	86	48	1845.	1845.
96	1	86	47	1846.	1846.
97	1	87	47	1846.	1846.
98	1	87	46	151.7	151.7
99	1	2	14	541.2	541.2
100	1	2	15	1220.	1220.
101	1	2	16	1834.	1834.
102	1	2	17	1833.	1833.
103	1	2	18	1833.	1833.
104	1	2	19	1832.	1832.
105	1	2	20	1832.	1832.
106	1	2	21	1831.	1831.
107	1	2	22	1831.	1831.
108	1	2	23	1830.	1830.
109	1	2	24	1830.	1830.
110	1	2	25	1829.	1829.
111	1	2	26	1828.	1828.
112	1	2	27	1828.	1828.
113	1	2	28	1827.	1827.
114	1	2	29	1827.	1827.
115	1	2	30	1826.	1826.
116	1	2	31	1826.	1826.
117	1	2	32	1825.	1825.
118	1	2	33	1825.	1825.
119	1	2	34	1824.	1824.
120	1	3	34	1824.	1824.
121	1	3	35	1823.	1823.
122	1	3	36	1823.	1823.
123	1	3	37	1822.	1822.
124	1	3	38	1822.	1822.
125	1	3	39	1821.	1821.
126	1	3	40	1821.	1821.
127	1	3	41	1820.	1820.

				DRAIN_HIGHK.out	
128	1	3	42	1819.	1819.
129	1	3	43	1819.	1819.
130	1	3	44	1818.	1818.
131	1	3	45	1818.	1818.
132	1	3	46	1817.	1817.
133	1	3	47	1817.	1817.
134	1	3	48	1816.	1816.
135	1	3	49	1816.	1816.
136	1	3	50	1815.	1815.
137	1	3	51	1814.	1814.
138	1	3	52	1814.	1814.
139	1	3	53	1813.	1813.
140	1	3	54	122.0	122.0
141	1	2	14	1294.	1294.
142	1	2	15	615.3	615.3
143	1	3	15	1835.	1835.
144	1	4	15	1836.	1836.
145	1	4	16	1836.	1836.
146	1	5	16	1836.	1836.
147	1	6	16	1836.	1836.
148	1	6	17	1837.	1837.
149	1	7	17	1837.	1837.
150	1	8	17	1837.	1837.
151	1	8	18	1837.	1837.
152	1	9	18	1838.	1838.
153	1	9	19	1838.	1838.
154	1	10	19	1838.	1838.
155	1	11	19	1838.	1838.
156	1	11	20	1838.	1838.
157	1	12	20	1839.	1839.
158	1	13	20	1839.	1839.
159	1	13	21	1839.	1839.
160	1	14	21	1839.	1839.
161	1	15	21	1840.	1840.
162	1	15	22	1840.	1840.
163	1	16	22	1840.	1840.
164	1	17	22	1840.	1840.
165	1	17	23	1840.	1840.
166	1	18	23	1841.	1841.
167	1	18	24	1841.	1841.
168	1	19	24	1841.	1841.
169	1	20	24	1841.	1841.
170	1	20	25	1842.	1842.
171	1	21	25	1842.	1842.
172	1	22	25	1842.	1842.
173	1	22	26	1842.	1842.
174	1	23	26	1842.	1842.
175	1	24	26	1843.	1843.
176	1	24	27	1771.	1771.
177	1	87	36	93.94	93.94
178	1	88	36	1847.	1847.
179	1	88	37	1847.	1847.
180	1	89	37	1846.	1846.
181	1	89	38	1846.	1846.
182	1	90	38	1846.	1846.
183	1	90	39	1845.	1845.
184	1	91	39	1845.	1845.
185	1	91	40	1845.	1845.
186	1	92	40	1844.	1844.
187	1	92	41	1844.	1844.
188	1	93	41	1843.	1843.
189	1	93	42	1843.	1843.
190	1	94	42	1843.	1843.

				DRAIN_HIGHK.out	
191	1	94	43	1842.	1842.
192	1	95	43	1842.	1842.
193	1	95	44	1842.	1842.
194	1	96	44	1841.	1841.
195	1	96	45	1841.	1841.
196	1	97	45	1841.	1841.
197	1	97	46	696.2	696.2
198	1	18	74	1782.	1782.
199	1	19	74	1809.	1809.
200	1	19	75	1809.	1809.
201	1	20	75	1808.	1808.
202	1	21	75	1807.	1807.
203	1	21	76	1807.	1807.
204	1	22	76	1806.	1806.
205	1	22	77	1806.	1806.
206	1	23	77	1805.	1805.
207	1	24	77	1804.	1804.
208	1	24	78	1804.	1804.
209	1	25	78	1803.	1803.
210	1	25	79	1803.	1803.
211	1	26	79	1802.	1802.
212	1	27	79	1802.	1802.
213	1	27	80	1801.	1801.
214	1	28	80	1800.	1800.
215	1	29	80	1800.	1800.
216	1	29	81	1799.	1799.
217	1	30	81	1799.	1799.
218	1	30	82	1798.	1798.
219	1	31	82	1798.	1798.
220	1	32	82	1797.	1797.
221	1	32	83	1797.	1797.
222	1	33	83	1796.	1796.
223	1	33	84	1795.	1795.
224	1	34	84	1795.	1795.
225	1	35	84	1794.	1794.
226	1	35	85	1794.	1794.
227	1	36	85	1793.	1793.
228	1	36	86	1793.	1793.
229	1	37	86	1792.	1792.
230	1	38	86	1791.	1791.
231	1	38	87	1791.	1791.
232	1	39	87	1790.	1790.
233	1	39	88	1790.	1790.
234	1	40	88	1789.	1789.
235	1	41	88	1788.	1788.
236	1	41	89	1788.	1788.
237	1	42	89	1787.	1787.
238	1	42	90	1787.	1787.
239	1	43	90	1786.	1786.
240	1	44	90	1786.	1786.
241	1	44	91	1785.	1785.
242	1	45	91	1784.	1784.
243	1	45	92	1784.	1784.
244	1	46	92	1783.	1783.
245	1	47	92	672.9	672.9
246	1	47	93	1092.	1092.
247	1	66	28	995.9	995.9
248	1	66	29	1840.	1840.
249	1	66	30	1840.	1840.
250	1	66	31	1841.	1841.
251	1	66	32	1841.	1841.
252	1	66	33	1841.	1841.
253	1	66	34	1841.	1841.

				DRAIN_HIGHK.out	
254	1	66	35	1842.	1842.
255	1	66	36	1842.	1842.
256	1	66	37	1842.	1842.
257	1	67	37	1842.	1842.
258	1	68	37	1843.	1843.
259	1	69	37	1843.	1843.
260	1	70	37	1843.	1843.
261	1	71	37	1843.	1843.
262	1	72	37	1844.	1844.
263	1	72	36	1844.	1844.
264	1	73	36	1844.	1844.
265	1	74	36	1844.	1844.
266	1	75	36	1845.	1845.
267	1	76	36	1845.	1845.
268	1	77	36	1845.	1845.
269	1	78	36	1845.	1845.
270	1	79	36	1846.	1846.
271	1	80	36	1846.	1846.
272	1	81	36	1846.	1846.
273	1	82	36	1847.	1847.
274	1	83	36	1735.	1735.
275	1	24	27	72.26	72.26
276	1	25	27	1843.	1843.
277	1	26	27	1843.	1843.
278	1	26	28	1843.	1843.
279	1	27	28	1843.	1843.
280	1	27	29	1843.	1843.
281	1	28	29	1843.	1843.
282	1	29	29	1843.	1843.
283	1	29	30	1843.	1843.
284	1	30	30	1843.	1843.
285	1	31	30	1842.	1842.
286	1	32	30	1842.	1842.
287	1	33	30	1842.	1842.
288	1	34	30	1842.	1842.
289	1	35	30	1842.	1842.
290	1	36	30	1842.	1842.
291	1	37	30	1842.	1842.
292	1	38	30	1842.	1842.
293	1	39	30	1842.	1842.
294	1	40	30	1842.	1842.
295	1	41	30	1842.	1842.
296	1	42	30	1842.	1842.
297	1	43	30	1842.	1842.
298	1	44	30	1842.	1842.
299	1	45	30	1842.	1842.
300	1	45	29	1841.	1841.
301	1	46	29	1841.	1841.
302	1	47	29	1841.	1841.
303	1	48	29	1841.	1841.
304	1	49	29	1841.	1841.
305	1	50	29	1841.	1841.
306	1	51	29	1841.	1841.
307	1	52	29	1841.	1841.
308	1	53	29	1841.	1841.
309	1	54	29	1841.	1841.
310	1	55	29	1841.	1841.
311	1	56	29	1841.	1841.
312	1	57	29	1841.	1841.
313	1	58	29	1841.	1841.
314	1	59	29	1840.	1840.
315	1	60	29	1840.	1840.
316	1	61	29	1840.	1840.

				DRAIN_HIGHK.out	
317	1	61	28	1840.	1840.
318	1	62	28	1840.	1840.
319	1	63	28	1840.	1840.
320	1	64	28	1840.	1840.
321	1	65	28	1840.	1840.
322	1	66	28	844.1	844.1
323	1	3	54	1691.	1691.
324	1	3	55	1813.	1813.
325	1	3	56	1813.	1813.
326	1	3	57	1813.	1813.
327	1	4	57	1813.	1813.
328	1	5	57	1813.	1813.
329	1	6	57	1812.	1812.
330	1	7	57	1812.	1812.
331	1	8	57	1812.	1812.
332	1	9	57	1812.	1812.
333	1	10	57	1812.	1812.
334	1	11	57	1812.	1812.
335	1	12	57	1812.	1812.
336	1	13	57	1812.	1812.
337	1	13	56	1812.	1812.
338	1	14	56	1812.	1812.
339	1	15	56	1812.	1812.
340	1	16	56	1811.	1811.
341	1	17	56	1811.	1811.
342	1	17	57	1811.	1811.
343	1	17	58	1811.	1811.
344	1	17	59	1811.	1811.
345	1	17	60	1811.	1811.
346	1	17	61	1811.	1811.
347	1	17	62	1811.	1811.
348	1	17	63	1811.	1811.
349	1	17	64	1811.	1811.
350	1	17	65	1811.	1811.
351	1	17	66	1811.	1811.
352	1	17	67	1811.	1811.
353	1	18	67	1810.	1810.
354	1	18	68	1810.	1810.
355	1	18	69	1810.	1810.
356	1	18	70	1810.	1810.
357	1	18	71	1810.	1810.
358	1	18	72	1810.	1810.
359	1	18	73	1810.	1810.
360	1	18	74	27.60	27.60
361	1	83	36	112.0	112.0
362	1	84	36	1847.	1847.
363	1	85	36	1847.	1847.
364	1	86	36	1847.	1847.
365	1	87	36	1754.	1754.
366	1	87	46	1695.	1695.
367	1	88	46	1846.	1846.
368	1	89	46	1845.	1845.
369	1	90	46	1844.	1844.
370	1	91	46	1844.	1844.
371	1	92	46	1843.	1843.
372	1	93	46	1843.	1843.
373	1	94	46	1842.	1842.
374	1	95	46	1841.	1841.
375	1	96	46	1841.	1841.
376	1	97	46	1144.	1144.
377	1	47	93	701.2	701.2
378	1	47	92	1127.	1127.
379	1	48	92	1810.	1810.

				DRAIN_HIGHK.out	
380	1	48	91	1810.	1810.
381	1	48	90	1810.	1810.
382	1	49	90	1810.	1810.
383	1	49	89	1810.	1810.
384	1	50	89	1810.	1810.
385	1	50	88	1810.	1810.
386	1	51	88	1810.	1810.
387	1	51	87	1810.	1810.
388	1	51	86	1810.	1810.
389	1	52	86	1810.	1810.
390	1	52	85	1810.	1810.
391	1	53	85	1810.	1810.
392	1	53	84	1810.	1810.
393	1	53	83	1810.	1810.
394	1	54	83	1810.	1810.
395	1	54	82	1810.	1810.
396	1	55	82	1810.	1810.
397	1	55	81	1810.	1810.
398	1	56	81	1810.	1810.
399	1	57	81	1810.	1810.
400	1	58	81	1810.	1810.
401	1	59	81	1810.	1810.
402	1	60	81	1810.	1810.
403	1	61	81	1810.	1810.
404	1	62	81	1810.	1810.
405	1	63	81	1810.	1810.
406	1	64	81	1810.	1810.
407	1	65	81	1810.	1810.
408	1	66	81	1810.	1810.
409	1	67	81	1810.	1810.
410	1	68	81	1810.	1810.
411	1	69	81	1810.	1810.
412	1	70	81	1810.	1810.
413	1	70	80	1810.	1810.
414	1	71	80	1810.	1810.
415	1	72	80	1810.	1810.
416	1	73	80	1810.	1810.
417	1	73	79	1810.	1810.
418	1	73	78	1810.	1810.
419	1	74	78	1810.	1810.
420	1	74	77	1810.	1810.
421	1	74	76	1810.	1810.
422	1	74	75	1810.	1810.
423	1	75	75	1810.	1810.
424	1	75	74	1810.	1810.
425	1	75	73	1810.	1810.
426	1	76	73	1810.	1810.
427	1	76	72	1810.	1810.
428	1	76	71	1810.	1810.
429	1	77	71	1810.	1810.
430	1	77	70	1810.	1810.
431	1	77	69	1810.	1810.
432	1	77	68	1810.	1810.
433	1	77	67	1810.	1810.
434	1	76	67	1810.	1810.
435	1	76	66	1810.	1810.
436	1	75	66	1810.	1810.
437	1	75	65	1810.	1810.
438	1	74	65	1810.	1810.
439	1	73	65	1810.	1810.
440	1	73	64	1810.	1810.
441	1	72	64	1810.	1810.
442	1	72	63	1810.	1810.



				DRAIN_HIGHK.out	
443	1	72	62	1810.	1810.
444	1	73	62	1810.	1810.
445	1	73	61	1810.	1810.
446	1	74	61	1810.	1810.
447	1	75	61	1810.	1810.
448	1	76	61	1810.	1810.
449	1	76	60	1810.	1810.
450	1	77	60	1810.	1810.
451	1	78	60	1810.	1810.
452	1	78	59	1810.	1810.
453	1	79	59	1810.	1810.
454	1	80	59	1810.	1810.
455	1	81	59	1810.	1810.
456	1	81	58	1810.	1810.
457	1	82	58	1810.	1810.
458	1	83	58	1810.	1810.
459	1	83	57	1810.	1810.
460	1	84	57	1810.	1810.
461	1	84	56	1810.	1810.
462	1	84	55	1810.	1810.
463	1	85	55	1810.	1810.
464	1	85	54	1810.	1810.
465	1	85	53	1810.	1810.
466	1	85	52	1810.	1810.
467	1	85	51	1810.	1810.
468	1	86	51	1810.	1810.
469	1	86	50	1810.	1810.
470	1	86	49	1810.	1810.
471	1	86	48	1810.	1810.
472	1	86	47	1810.	1810.
473	1	87	47	1810.	1810.
474	1	87	46	148.7	148.7
475	1	2	14	533.9	533.9
476	1	2	15	1203.	1203.
477	1	2	16	1810.	1810.
478	1	2	17	1810.	1810.
479	1	2	18	1810.	1810.
480	1	2	19	1810.	1810.
481	1	2	20	1810.	1810.
482	1	2	21	1810.	1810.
483	1	2	22	1810.	1810.
484	1	2	23	1810.	1810.
485	1	2	24	1810.	1810.
486	1	2	25	1810.	1810.
487	1	2	26	1810.	1810.
488	1	2	27	1810.	1810.
489	1	2	28	1810.	1810.
490	1	2	29	1810.	1810.
491	1	2	30	1810.	1810.
492	1	2	31	1810.	1810.
493	1	2	32	1810.	1810.
494	1	2	33	1810.	1810.
495	1	2	34	1810.	1810.
496	1	3	34	1810.	1810.
497	1	3	35	1810.	1810.
498	1	3	36	1810.	1810.
499	1	3	37	1810.	1810.
500	1	3	38	1810.	1810.
501	1	3	39	1810.	1810.
502	1	3	40	1810.	1810.
503	1	3	41	1810.	1810.
504	1	3	42	1810.	1810.
505	1	3	43	1810.	1810.

				DRAIN_HIGHK.out	
506	1	3	44	1810.	1810.
507	1	3	45	1810.	1810.
508	1	3	46	1810.	1810.
509	1	3	47	1810.	1810.
510	1	3	48	1810.	1810.
511	1	3	49	1810.	1810.
512	1	3	50	1810.	1810.
513	1	3	51	1810.	1810.
514	1	3	52	1810.	1810.
515	1	3	53	1810.	1810.
516	1	3	54	121.8	121.8
517	1	2	14	1276.	1276.
518	1	2	15	606.8	606.8
519	1	3	15	1810.	1810.
520	1	4	15	1810.	1810.
521	1	4	16	1810.	1810.
522	1	5	16	1810.	1810.
523	1	6	16	1810.	1810.
524	1	6	17	1810.	1810.
525	1	7	17	1810.	1810.
526	1	8	17	1810.	1810.
527	1	8	18	1810.	1810.
528	1	9	18	1810.	1810.
529	1	9	19	1810.	1810.
530	1	10	19	1810.	1810.
531	1	11	19	1810.	1810.
532	1	11	20	1810.	1810.
533	1	12	20	1810.	1810.
534	1	13	20	1810.	1810.
535	1	13	21	1810.	1810.
536	1	14	21	1810.	1810.
537	1	15	21	1810.	1810.
538	1	15	22	1810.	1810.
539	1	16	22	1810.	1810.
540	1	17	22	1810.	1810.
541	1	17	23	1810.	1810.
542	1	18	23	1810.	1810.
543	1	18	24	1810.	1810.
544	1	19	24	1810.	1810.
545	1	20	24	1810.	1810.
546	1	20	25	1810.	1810.
547	1	21	25	1810.	1810.
548	1	22	25	1810.	1810.
549	1	22	26	1810.	1810.
550	1	23	26	1810.	1810.
551	1	24	26	1810.	1810.
552	1	24	27	1739.	1739.
553	1	87	36	92.03	92.03
554	1	88	36	1810.	1810.
555	1	88	37	1810.	1810.
556	1	89	37	1810.	1810.
557	1	89	38	1810.	1810.
558	1	90	38	1810.	1810.
559	1	90	39	1810.	1810.
560	1	91	39	1810.	1810.
561	1	91	40	1810.	1810.
562	1	92	40	1810.	1810.
563	1	92	41	1810.	1810.
564	1	93	41	1810.	1810.
565	1	93	42	1810.	1810.
566	1	94	42	1810.	1810.
567	1	94	43	1810.	1810.
568	1	95	43	1810.	1810.

				DRAIN_HIGHK.out	
569	1	95	44	1810.	1810.
570	1	96	44	1810.	1810.
571	1	96	45	1810.	1810.
572	1	97	45	1810.	1810.
573	1	97	46	684.8	684.8
574	1	18	74	1782.	1782.
575	1	19	74	1810.	1810.
576	1	19	75	1810.	1810.
577	1	20	75	1810.	1810.
578	1	21	75	1810.	1810.
579	1	21	76	1810.	1810.
580	1	22	76	1810.	1810.
581	1	22	77	1810.	1810.
582	1	23	77	1810.	1810.
583	1	24	77	1810.	1810.
584	1	24	78	1810.	1810.
585	1	25	78	1810.	1810.
586	1	25	79	1810.	1810.
587	1	26	79	1810.	1810.
588	1	27	79	1810.	1810.
589	1	27	80	1810.	1810.
590	1	28	80	1810.	1810.
591	1	29	80	1810.	1810.
592	1	29	81	1810.	1810.
593	1	30	81	1810.	1810.
594	1	30	82	1810.	1810.
595	1	31	82	1810.	1810.
596	1	32	82	1810.	1810.
597	1	32	83	1810.	1810.
598	1	33	83	1810.	1810.
599	1	33	84	1810.	1810.
600	1	34	84	1810.	1810.
601	1	35	84	1810.	1810.
602	1	35	85	1810.	1810.
603	1	36	85	1810.	1810.
604	1	36	86	1810.	1810.
605	1	37	86	1810.	1810.
606	1	38	86	1810.	1810.
607	1	38	87	1810.	1810.
608	1	39	87	1810.	1810.
609	1	39	88	1810.	1810.
610	1	40	88	1810.	1810.
611	1	41	88	1810.	1810.
612	1	41	89	1810.	1810.
613	1	42	89	1810.	1810.
614	1	42	90	1810.	1810.
615	1	43	90	1810.	1810.
616	1	44	90	1810.	1810.
617	1	44	91	1810.	1810.
618	1	45	91	1810.	1810.
619	1	45	92	1810.	1810.
620	1	46	92	1810.	1810.
621	1	47	92	683.2	683.2
622	1	47	93	1109.	1109.
623	1	66	28	979.7	979.7
624	1	66	29	1810.	1810.
625	1	66	30	1810.	1810.
626	1	66	31	1810.	1810.
627	1	66	32	1810.	1810.
628	1	66	33	1810.	1810.
629	1	66	34	1810.	1810.
630	1	66	35	1810.	1810.
631	1	66	36	1810.	1810.

				DRAIN_HIGHK.out	
632	1	66	37	1810.	1810.
633	1	67	37	1810.	1810.
634	1	68	37	1810.	1810.
635	1	69	37	1810.	1810.
636	1	70	37	1810.	1810.
637	1	71	37	1810.	1810.
638	1	72	37	1810.	1810.
639	1	72	36	1810.	1810.
640	1	73	36	1810.	1810.
641	1	74	36	1810.	1810.
642	1	75	36	1810.	1810.
643	1	76	36	1810.	1810.
644	1	77	36	1810.	1810.
645	1	78	36	1810.	1810.
646	1	79	36	1810.	1810.
647	1	80	36	1810.	1810.
648	1	81	36	1810.	1810.
649	1	82	36	1810.	1810.
650	1	83	36	1700.	1700.
651	1	24	27	70.96	70.96
652	1	25	27	1810.	1810.
653	1	26	27	1810.	1810.
654	1	26	28	1810.	1810.
655	1	27	28	1810.	1810.
656	1	27	29	1810.	1810.
657	1	28	29	1810.	1810.
658	1	29	29	1810.	1810.
659	1	29	30	1810.	1810.
660	1	30	30	1810.	1810.
661	1	31	30	1810.	1810.
662	1	32	30	1810.	1810.
663	1	33	30	1810.	1810.
664	1	34	30	1810.	1810.
665	1	35	30	1810.	1810.
666	1	36	30	1810.	1810.
667	1	37	30	1810.	1810.
668	1	38	30	1810.	1810.
669	1	39	30	1810.	1810.
670	1	40	30	1810.	1810.
671	1	41	30	1810.	1810.
672	1	42	30	1810.	1810.
673	1	43	30	1810.	1810.
674	1	44	30	1810.	1810.
675	1	45	30	1810.	1810.
676	1	45	29	1810.	1810.
677	1	46	29	1810.	1810.
678	1	47	29	1810.	1810.
679	1	48	29	1810.	1810.
680	1	49	29	1810.	1810.
681	1	50	29	1810.	1810.
682	1	51	29	1810.	1810.
683	1	52	29	1810.	1810.
684	1	53	29	1810.	1810.
685	1	54	29	1810.	1810.
686	1	55	29	1810.	1810.
687	1	56	29	1810.	1810.
688	1	57	29	1810.	1810.
689	1	58	29	1810.	1810.
690	1	59	29	1810.	1810.
691	1	60	29	1810.	1810.
692	1	61	29	1810.	1810.
693	1	61	28	1810.	1810.
694	1	62	28	1810.	1810.

				DRAIN_HIGHK.out	
695	1	63	28	1810.	1810.
696	1	64	28	1810.	1810.
697	1	65	28	1810.	1810.
698	1	66	28	830.3	830.3
699	1	3	54	1688.	1688.
700	1	3	55	1810.	1810.
701	1	3	56	1810.	1810.
702	1	3	57	1810.	1810.
703	1	4	57	1810.	1810.
704	1	5	57	1810.	1810.
705	1	6	57	1810.	1810.
706	1	7	57	1810.	1810.
707	1	8	57	1810.	1810.
708	1	9	57	1810.	1810.
709	1	10	57	1810.	1810.
710	1	11	57	1810.	1810.
711	1	12	57	1810.	1810.
712	1	13	57	1810.	1810.
713	1	13	56	1810.	1810.
714	1	14	56	1810.	1810.
715	1	15	56	1810.	1810.
716	1	16	56	1810.	1810.
717	1	17	56	1810.	1810.
718	1	17	57	1810.	1810.
719	1	17	58	1810.	1810.
720	1	17	59	1810.	1810.
721	1	17	60	1810.	1810.
722	1	17	61	1810.	1810.
723	1	17	62	1810.	1810.
724	1	17	63	1810.	1810.
725	1	17	64	1810.	1810.
726	1	17	65	1810.	1810.
727	1	17	66	1810.	1810.
728	1	17	67	1810.	1810.
729	1	18	67	1810.	1810.
730	1	18	68	1810.	1810.
731	1	18	69	1810.	1810.
732	1	18	70	1810.	1810.
733	1	18	71	1810.	1810.
734	1	18	72	1810.	1810.
735	1	18	73	1810.	1810.
736	1	18	74	27.60	27.60
737	1	83	36	109.7	109.7
738	1	84	36	1810.	1810.
739	1	85	36	1810.	1810.
740	1	86	36	1810.	1810.
741	1	87	36	1718.	1718.
742	1	87	46	1661.	1661.
743	1	88	46	1810.	1810.
744	1	89	46	1810.	1810.
745	1	90	46	1810.	1810.
746	1	91	46	1810.	1810.
747	1	92	46	1810.	1810.
748	1	93	46	1810.	1810.
749	1	94	46	1810.	1810.
750	1	95	46	1810.	1810.
751	1	96	46	1810.	1810.
752	1	97	46	1125.	1125.

752 TIME-VARIANT SPECIFIED-HEAD CELLS

SOLVING FOR HEAD

# DRAIN\_HIGHK.out

OUTPUT CONTROL FOR STRESS PERIOD 1 TIME STEP 1

PRINT BUDGET

SAVE HEAD FOR ALL LAYERS

SAVE BUDGET

UBDSV2	SAVING	"	CONSTANT HEAD"	ON UNIT	40	AT TIME STEP	1,	STRESS PERIOD	1
UBDSV1	SAVING	"	FLOW RIGHT FACE "	ON UNIT	40	AT TIME STEP	1,	STRESS PERIOD	1
UBDSV1	SAVING	"	FLOW FRONT FACE "	ON UNIT	40	AT TIME STEP	1,	STRESS PERIOD	1
UBDSV1	SAVING	"	FLOW LOWER FACE "	ON UNIT	40	AT TIME STEP	1,	STRESS PERIOD	1
UBDSV4	SAVING	"	WELLS"	ON UNIT	40	AT TIME STEP	1,	STRESS PERIOD	1
UBDSV4	SAVING	"	DRAINS"	ON UNIT	40	AT TIME STEP	1,	STRESS PERIOD	1
UBDSV3	SAVING	"	ET"	ON UNIT	40	AT TIME STEP	1,	STRESS PERIOD	1
UBDSV4	SAVING	"	HEAD DEP BOUNDS"	ON UNIT	40	AT TIME STEP	1,	STRESS PERIOD	1
UBDSV3	SAVING	"	RECHARGE"	ON UNIT	40	AT TIME STEP	1,	STRESS PERIOD	1

\*\*\*Link-MT3DMS Package\*\*\*

OPENING LINK-MT3DMS OUTPUT FILE: DRAIN\_HIGHK.hff

ON UNIT NUMBER: 333

FILE TYPE: UNFORMATTED

HEADER OPTION: STANDARD

\*\*\*Link-MT3DMS Package\*\*\*

SAVING SATURATED THICKNESS AND FLOW TERMS ON UNIT 333 FOR MT3DMS

BY THE LINK-MT3DMS PACKAGE V6.3 AT TIME STEP 1, STRESS PERIOD 1

HEAD WILL BE SAVED ON UNIT 30 AT END OF TIME STEP 1, STRESS PERIOD 1

1 VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP 1 IN STRESS PERIOD 1

CUMULATIVE VOLUMES	L**3	RATES FOR THIS TIME STEP	L**3/T
-----		-----	
IN:		IN:	
---		---	
STORAGE =	0.0000	STORAGE =	0.0000
CONSTANT HEAD =	1588.9995	CONSTANT HEAD =	1588.9995
WELLS =	0.0000	WELLS =	0.0000
DRAINS =	0.0000	DRAINS =	0.0000
ET =	0.0000	ET =	0.0000
HEAD DEP BOUNDS =	5099664.0000	HEAD DEP BOUNDS =	5099664.0000
RECHARGE =	964420.4375	RECHARGE =	964420.4375
TOTAL IN =	6065673.5000	TOTAL IN =	6065673.5000
OUT:		OUT:	
----		----	
STORAGE =	0.0000	STORAGE =	0.0000
CONSTANT HEAD =	966000.4375	CONSTANT HEAD =	966000.4375
WELLS =	3100.0000	WELLS =	3100.0000
DRAINS =	5096543.5000	DRAINS =	5096543.5000
ET =	1.0073	ET =	1.0073
HEAD DEP BOUNDS =	26.7080	HEAD DEP BOUNDS =	26.7080
RECHARGE =	0.0000	RECHARGE =	0.0000
TOTAL OUT =	6065671.5000	TOTAL OUT =	6065671.5000
IN - OUT =	2.0000	IN - OUT =	2.0000

## DRAIN\_HIGHK.out

PERCENT DISCREPANCY = 0.00 PERCENT DISCREPANCY = 0.00

		TIME SUMMARY AT END OF TIME STEP	1 IN STRESS PERIOD	1
		SECONDS	MINUTES	HOURS
TIME STEP LENGTH	86400.	1440.0	24.000	1.0000
STRESS PERIOD TIME	86400.	1440.0	24.000	1.0000
TOTAL TIME	86400.	1440.0	24.000	1.0000

1

## DATA AT HEAD LOCATIONS

OBS#	OBSERVATION NAME	OBSERVATION *	SIMUL. EQUIV. *	RESIDUAL	WEIGHT**.5	WEIGHTED RESIDUAL
1	hed1	0.369E+04	0.299E+04	704.	0.653	460.
2	hed2	0.370E+04	0.334E+04	354.	0.653	231.
3	hed3	0.370E+04	0.254E+04	0.116E+04	0.653	758.
4	hed4	0.370E+04	0.106E+04	0.264E+04	0.653	0.173E+04
5	hed5	0.371E+04	0.306E+04	643.	0.653	420.
6	hed6	0.370E+04	587.	0.312E+04	0.653	0.204E+04
7	hed7	0.360E+04	0.232E+04	0.128E+04	0.653	839.

\* THE OBSERVATION (AND CORRESPONDING SIMULATED EQUIVALENT) IS HEAD OR TEMPORAL CHANGE IN HEAD, AS SPECIFIED IN THE "HOB" INPUT FILE. NEGATIVE TEMPORAL CHANGES INDICATE DRAWDOWN.

## STATISTICS FOR HEAD RESIDUALS :

MAXIMUM WEIGHTED RESIDUAL : 0.204E+04 OBS# 6  
 MINIMUM WEIGHTED RESIDUAL : 231. OBS# 2  
 AVERAGE WEIGHTED RESIDUAL : 924.  
 # RESIDUALS >= 0. : 7  
 # RESIDUALS < 0. : 0  
 NUMBER OF RUNS : 1 IN 7 OBSERVATIONS

SUM OF SQUARED WEIGHTED RESIDUALS (HEADS ONLY) 0.88418E+07

## DATA FOR FLOWS REPRESENTED USING THE DRAIN PACKAGE

OBS#	OBSERVATION NAME	MEAS. FLOW	CALC. FLOW	RESIDUAL	WEIGHT**.5	WEIGHTED RESIDUAL
8	no_drnf0	1.00	-0.510E+07	0.510E+07	0.100E-18	0.510E-12

## STATISTICS FOR DRAIN FLOW RESIDUALS :

MAXIMUM WEIGHTED RESIDUAL : 0.510E-12 OBS# 8  
 MINIMUM WEIGHTED RESIDUAL : 0.510E-12 OBS# 8  
 AVERAGE WEIGHTED RESIDUAL : 0.510E-12  
 # RESIDUALS >= 0. : 1  
 # RESIDUALS < 0. : 0  
 NUMBER OF RUNS: 1 IN 1 OBSERVATIONS

SUM OF SQUARED WEIGHTED RESIDUALS (DRAIN FLOWS ONLY) 0.25975E-24

## DATA FOR FLOWS REPRESENTED USING THE GENERAL-HEAD BOUNDARY PACKAGE

OBSERVATION	MEAS.	CALC.	WEIGHTED
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OBS#	NAME	FLOW	DRAIN_HIGHK.out FLOW	RESIDUAL	WEIGHT**.5	RESIDUAL
9	no_ghbf0	1.00	0.406E+04	-0.405E+04	0.100E-18	-0.405E-15
10	no_ghbf1	1.00	0.129E+05	-0.129E+05	0.100E-18	-0.129E-14
11	no_ghbf2	1.00	0.507E+07	-0.507E+07	0.100E-18	-0.507E-12
12	no_ghbf3	1.00	0.100E+05	-0.100E+05	0.100E-18	-0.100E-14

STATISTICS FOR GENERAL-HEAD BOUNDARY FLOW RESIDUALS :

MAXIMUM WEIGHTED RESIDUAL :-0.405E-15 OBS# 9  
 MINIMUM WEIGHTED RESIDUAL :-0.507E-12 OBS# 11  
 AVERAGE WEIGHTED RESIDUAL :-0.127E-12  
 # RESIDUALS >= 0. : 0  
 # RESIDUALS < 0. : 4  
 NUMBER OF RUNS: 1 IN 4 OBSERVATIONS

SUM OF SQUARED WEIGHTED RESIDUALS  
 (GENERAL-HEAD BOUNDARY FLOWS ONLY) 0.25732E-24

DATA FOR FLOW OBSERVATIONS AT BOUNDARIES REPRESENTED AS CONSTANT-HEAD

OBS#	OBSERVATION NAME	MEAS. FLOW	CALC. FLOW	RESIDUAL	WEIGHT**.5	WEIGHTED RESIDUAL
13	no_chdf0	1.00	-0.133E+06	0.133E+06	0.100E-18	0.133E-13
14	no_chdf1	1.00	-0.171E+04	0.171E+04	0.100E-18	0.171E-15
15	no_chdf2	1.00	-0.268E+04	0.268E+04	0.100E-18	0.268E-15
16	no_chdf3	1.00	-0.458E+05	0.458E+05	0.100E-18	0.458E-14
17	no_chdf4	1.00	-0.133E+05	0.133E+05	0.100E-18	0.133E-14
18	no_chdf5	1.00	-0.323E+04	0.323E+04	0.100E-18	0.323E-15
19	no_chdf6	1.00	-0.111E+06	0.111E+06	0.100E-18	0.111E-13
20	no_chdf7	1.00	-0.355E+05	0.355E+05	0.100E-18	0.355E-14
21	no_chdf8	1.00	-0.692E+05	0.692E+05	0.100E-18	0.692E-14
22	no_chdf9	1.00	-0.667E+05	0.667E+05	0.100E-18	0.667E-14
23	no_chdf10	1.00	-0.134E+06	0.134E+06	0.100E-18	0.134E-13
24	no_chdf11	1.00	-0.168E+04	0.168E+04	0.100E-18	0.168E-15
25	no_chdf12	1.00	-0.262E+04	0.263E+04	0.100E-18	0.263E-15
26	no_chdf13	1.00	-0.454E+05	0.454E+05	0.100E-18	0.454E-14
27	no_chdf14	1.00	-0.131E+05	0.131E+05	0.100E-18	0.131E-14
28	no_chdf15	1.00	-0.317E+04	0.317E+04	0.100E-18	0.317E-15
29	no_chdf16	1.00	-0.112E+06	0.112E+06	0.100E-18	0.112E-13
30	no_chdf17	1.00	-0.349E+05	0.349E+05	0.100E-18	0.349E-14
31	no_chdf18	1.00	-0.680E+05	0.680E+05	0.100E-18	0.680E-14
32	no_chdf19	1.00	-0.667E+05	0.667E+05	0.100E-18	0.667E-14

STATISTICS FOR CONSTANT-HEAD BOUNDARY FLOW RESIDUALS :

MAXIMUM WEIGHTED RESIDUAL : 0.134E-13 OBS# 23  
 MINIMUM WEIGHTED RESIDUAL : 0.168E-15 OBS# 24  
 AVERAGE WEIGHTED RESIDUAL : 0.482E-14  
 # RESIDUALS >= 0. : 20  
 # RESIDUALS < 0. : 0  
 NUMBER OF RUNS : 1 IN 20 OBSERVATIONS

SUM OF SQUARED WEIGHTED RESIDUALS  
 (CONSTANT-HEAD BOUNDARY FLOWS ONLY) 0.86012E-27

SUM OF SQUARED WEIGHTED RESIDUALS (ALL DEPENDENT VARIABLES) 0.88418E+07

STATISTICS FOR ALL RESIDUALS :

AVERAGE WEIGHTED RESIDUAL : 0.202E+03  
 # RESIDUALS >= 0. : 28  
 # RESIDUALS < 0. : 4  
 NUMBER OF RUNS : 3 IN 32 OBSERVATIONS



DRAIN\_HIGHK.out

INTERPRETING THE CALCULATED RUNS STATISTIC VALUE OF       -3.87  
 NOTE: THE FOLLOWING APPLIES ONLY IF

# RESIDUALS  $\geq 0$  . IS GREATER THAN 10 AND  
 # RESIDUALS  $< 0$  . IS GREATER THAN 10  
 THE NEGATIVE VALUE MAY INDICATE TOO FEW RUNS:  
 IF THE VALUE IS LESS THAN -1.28, THERE IS LESS THAN A 10 PERCENT  
 CHANCE THE VALUES ARE RANDOM,  
 IF THE VALUE IS LESS THAN -1.645, THERE IS LESS THAN A 5 PERCENT  
 CHANCE THE VALUES ARE RANDOM,  
 IF THE VALUE IS LESS THAN -1.96, THERE IS LESS THAN A 2.5 PERCENT  
 CHANCE THE VALUES ARE RANDOM.

ORDERED DEPENDENT-VARIABLE WEIGHTED RESIDUALS  
 NUMBER OF RESIDUALS INCLUDED:       32

-0.507E-12	-0.129E-14	-0.100E-14	-0.405E-15	0.168E-15	0.171E-15	0.263E-15
0.268E-15	0.317E-15	0.323E-15	0.131E-14	0.133E-14	0.349E-14	0.355E-14
0.454E-14	0.458E-14	0.667E-14	0.667E-14	0.680E-14	0.692E-14	0.111E-13
0.112E-13	0.133E-13	0.134E-13	0.510E-12	231.	420.	460.
758.	839.	0.173E+04	0.204E+04			

CORRELATION BETWEEN ORDERED WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS  
 FOR OBSERVATIONS =       0.474

-----  
 COMMENTS ON THE INTERPRETATION OF THE CORRELATION BETWEEN  
 WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS:

Generally, IF the reported CORRELATION is LESS than the critical value,  
 at the selected significance level (usually 5 or 10%), the hypothesis  
 that the weighted residuals are INDEPENDENT AND NORMALLY DISTRIBUTED  
 would be REJECTED. HOWEVER, in this case, conditions are outside of  
 the range of published critical values as discussed below.

The sum of the number of observations and prior information items is       32  
 which is less than 35, the minimum value for which critical values are  
 published. Therefore, the critical values for the 5 and 10% significance  
 levels are less than 0.943 and 0.952, respectively.

CORRELATIONS GREATER than these critical values indicate that, probably, the  
 weighted residuals ARE INDEPENDENT AND NORMALLY DISTRIBUTED.

Correlations LESS than these critical values MAY BE ACCEPTABLE, and  
 rejection of the hypothesis is not necessarily warranted.

The Kolmogorov-Smirnov test can be used to further evaluate the residuals.  
 -----

DRAIN\_HIGHK.pcg

25 50 1  
0.1 0.1 1.0 0 0 2 1.0

DRAIN\_HIGHK.pes

500 2.0 0.01 0.0  
0 0 0 0 0 0.0 0.001 1.5 1  
2 1 0  
0.8 0.0 1  
0 0 0

DRAIN\_HIGHK.rch

#GMS\_HDF5\_01

3 40

1 1

HDF5 1.0 -1 "DRAIN\_HIGHK.h5" "Recharge/07. Property" 3 0 1 0 10000 0 1

# drain\_highk.rec

## PEST RUN RECORD: CASE drain\_highk

### PEST run mode:-

Parameter estimation mode

### Case dimensions:-

Number of parameters	:	3
Number of adjustable parameters	:	3
Number of parameter groups	:	1
Number of observations	:	32
Number of prior estimates	:	0

### Model command line(s):-

start /w /min DRAIN\_HIGHK\_bat1.bat

### Jacobian command line:-

na

### Model interface files:-

#### Templates:

DRAIN\_HIGHK.tpl\_1  
for model input files:  
DRAIN\_HIGHK.snn\_1

(Parameter values written using single precision protocol.)  
(Decimal point always included.)

#### Instruction files:

DRAIN\_HIGHK.ins  
for reading model output files:  
DRAIN\_HIGHK.\_os

### PEST-to-model message file:-

na

### Derivatives calculation:-

Param group	Increment type	Increment	Increment low bound	Forward or central switch	Multiplier (central)	Method (central)
general	relative	1.0000E-02	none		2.000	
outside_pts						

### Parameter definitions:-

Name	Trans-formation	Change limit	Initial value	Lower bound	Upper bound
hk_800	log	factor	1.40000	1.000000E-03	20.0000
ghb_300	none	factor	0.100000	1.000000E-03	1000.00

ghb_400	none	drain_highk.rec factor	0.100000	1.000000E-03	1000.00
Name	Group	Scale	Offset	Model	command number
hk_800	general	1.00000	0.00000	1	
ghb_300	general	1.00000	0.00000	1	
ghb_400	general	1.00000	0.00000	1	

Prior information:-

No prior information supplied

Observations:-

Observation name	Observation	Weight	Group
hed1	3689.73	0.6533	head
hed2	3698.05	0.6533	head
hed3	3696.72	0.6533	head
hed4	3700.85	0.6533	head
hed5	3706.41	0.6533	head
hed6	3702.56	0.6533	head
hed7	3604.85	0.6533	head
no_drnf0	1.00000	1.0000E-19	drain
no_ghbf0	1.00000	1.0000E-19	ghb
no_ghbf1	1.00000	1.0000E-19	ghb
no_ghbf2	1.00000	1.0000E-19	ghb
no_ghbf3	1.00000	1.0000E-19	ghb
no_chdf0	1.00000	1.0000E-19	const_head
no_chdf1	1.00000	1.0000E-19	const_head
no_chdf2	1.00000	1.0000E-19	const_head
no_chdf3	1.00000	1.0000E-19	const_head
no_chdf4	1.00000	1.0000E-19	const_head
no_chdf5	1.00000	1.0000E-19	const_head
no_chdf6	1.00000	1.0000E-19	const_head
no_chdf7	1.00000	1.0000E-19	const_head
no_chdf8	1.00000	1.0000E-19	const_head
no_chdf9	1.00000	1.0000E-19	const_head
no_chdf10	1.00000	1.0000E-19	const_head
no_chdf11	1.00000	1.0000E-19	const_head
no_chdf12	1.00000	1.0000E-19	const_head
no_chdf13	1.00000	1.0000E-19	const_head
no_chdf14	1.00000	1.0000E-19	const_head
no_chdf15	1.00000	1.0000E-19	const_head
no_chdf16	1.00000	1.0000E-19	const_head
no_chdf17	1.00000	1.0000E-19	const_head
no_chdf18	1.00000	1.0000E-19	const_head
no_chdf19	1.00000	1.0000E-19	const_head

Control settings:-

Initial lambda	:	10.000
Lambda adjustment factor	:	2.0000
Sufficient new/old phi ratio per optimisation iteration	:	0.30000
Limiting relative phi reduction between lambdas	:	3.00000E-02
Maximum trial lambdas per iteration	:	10
Maximum factor parameter change (factor-limited changes)	:	5.0000
Maximum relative parameter change (relative-limited changes)	:	na
Fraction of initial parameter values used in computing	:	
change limit for near-zero parameters	:	1.00000E-03
Allow bending of parameter upgrade vector	:	no

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```

drain_highk.rec
Allow parameters to stick to their bounds           : no

Relative phi reduction below which to begin use of
central derivatives                                 : 0.10000
Iteration at which to first consider derivatives switch : 1

Relative phi reduction indicating convergence         : 0.50000E-02
Number of phi values required within this range      : 3
Maximum number of consecutive failures to lower phi  : 3
Minimal relative parameter change indicating convergence : 0.50000E-02
Number of consecutive iterations with minimal param change : 3
Maximum number of optimisation iterations            : 20

Attempt automatic user intervention                  : no

```

#### OPTIMISATION RECORD

##### INITIAL CONDITIONS:

```

Sum of squared weighted residuals (ie phi)          = 1.13310E+07
Contribution to phi from observation group "head"    = 1.13310E+07
Contribution to phi from observation group "drain"   = 2.53824E-27
Contribution to phi from observation group "ghb"     = 1.29563E-27
Contribution to phi from observation group "const_head" = 8.60117E-28

Current parameter values
hk_800          1.40000
ghb_300         0.100000
ghb_400         0.100000

```

```

OPTIMISATION ITERATION NO.      : 1
Model calls so far              : 1
Starting phi for this iteration  : 1.13310E+07
Contribution to phi from observation group "head" : 1.13310E+07
Contribution to phi from observation group "drain" : 2.53824E-27
Contribution to phi from observation group "ghb" : 1.29563E-27
Contribution to phi from observation group "const_head" : 8.60117E-28

```

```

Lambda = 10.000 ----->
Phi = 9.55810E+06 ( 0.844 of starting phi)

```

```

Lambda = 5.0000 ----->
Phi = 9.59918E+06 ( 0.847 of starting phi)

```

```

Lambda = 20.000 ----->
Phi = 9.53875E+06 ( 0.842 of starting phi)

```

No more lambdas: relative phi reduction between lambdas less than 0.0300  
Lowest phi this iteration: 9.53875E+06

Current parameter values		Previous parameter values	
hk_800	0.964602	hk_800	1.40000
ghb_300	0.302348	ghb_300	0.100000
ghb_400	0.500000	ghb_400	0.100000
Maximum factor change:	5.000	["ghb_400"]	
Maximum relative change:	4.000	["ghb_400"]	

```

OPTIMISATION ITERATION NO.      : 2
Model calls so far              : 7
Page 3

```

```

                                drain_highk.rec
Starting phi for this iteration      : 9.53875E+06
Contribution to phi from observation group "head"      : 9.53875E+06
Contribution to phi from observation group "drain"     : 3.57324E-27
Contribution to phi from observation group "ghb"       : 2.43660E-27
Contribution to phi from observation group "const_head" : 8.60117E-28

```

```

Lambda = 20.000 ----->
Phi = 8.89409E+06 ( 0.932 of starting phi)

```

```

Lambda = 10.000 ----->
Phi = 8.89176E+06 ( 0.932 of starting phi)

```

No more lambdas: relative phi reduction between lambdas less than 0.0300  
Lowest phi this iteration: 8.89176E+06  
Relative phi reduction between optimisation iterations less than 0.1000  
Switch to central derivatives calculation

Current parameter values		Previous parameter values	
hk_800	0.192920	hk_800	0.964602
ghb_300	0.530618	ghb_300	0.302348
ghb_400	0.859583	ghb_400	0.500000
Maximum factor change:	5.000	["hk_800"]	
Maximum relative change:	0.8000	["hk_800"]	

```

OPTIMISATION ITERATION NO.      : 3
Model calls so far              : 12
Starting phi for this iteration  : 8.89176E+06
Contribution to phi from observation group "head"      : 8.89176E+06
Contribution to phi from observation group "drain"     : 5.60395E-28
Contribution to phi from observation group "ghb"       : 4.24546E-28
Contribution to phi from observation group "const_head" : 8.60117E-28

```

```

Lambda = 5.0000 ----->
Phi = 8.86916E+06 ( 0.997 of starting phi)

```

```

Lambda = 2.5000 ----->
Phi = 8.85909E+06 ( 0.996 of starting phi)

```

No more lambdas: relative phi reduction between lambdas less than 0.0300  
Lowest phi this iteration: 8.85909E+06

Current parameter values		Previous parameter values	
hk_800	0.132106	hk_800	0.192920
ghb_300	2.65309	ghb_300	0.530618
ghb_400	3.59011	ghb_400	0.859583
Maximum factor change:	5.000	["ghb_300"]	
Maximum relative change:	4.000	["ghb_300"]	

```

OPTIMISATION ITERATION NO.      : 4
Model calls so far              : 20
Starting phi for this iteration  : 8.85909E+06
Contribution to phi from observation group "head"      : 8.85909E+06
Contribution to phi from observation group "drain"     : 2.64713E-27
Contribution to phi from observation group "ghb"       : 2.41381E-27
Contribution to phi from observation group "const_head" : 8.60117E-28

```

```

Lambda = 1.2500 ----->
Phi = 8.84877E+06 ( 0.999 of starting phi)

```

```

Lambda = 0.62500 ----->
Phi = 8.85076E+06 ( 0.999 of starting phi)

```

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# drain\_highk.rec

Lambda = 2.5000 ----->  
 Phi = 8.84447E+06 ( 0.998 of starting phi)

No more lambdas: relative phi reduction between lambdas less than 0.0300  
 Lowest phi this iteration: 8.84447E+06

Current parameter values		Previous parameter values	
hk_800	0.134914	hk_800	0.132106
ghb_300	9.16105	ghb_300	2.65309
ghb_400	17.9505	ghb_400	3.59011
Maximum factor change:	5.000	["ghb_400"]	
Maximum relative change:	4.000	["ghb_400"]	

OPTIMISATION ITERATION NO. : 5  
 Model calls so far : 29  
 Starting phi for this iteration : 8.84447E+06  
 Contribution to phi from observation group "head" : 8.84447E+06  
 Contribution to phi from observation group "drain" : 4.09188E-26  
 Contribution to phi from observation group "ghb" : 3.99616E-26  
 Contribution to phi from observation group "const\_head" : 8.60117E-28

Lambda = 2.5000 ----->  
 Phi = 8.84264E+06 ( 1.000 of starting phi)

Lambda = 1.2500 ----->  
 Phi = 8.84304E+06 ( 1.000 of starting phi)

Lambda = 5.0000 ----->  
 Phi = 8.84175E+06 ( 1.000 of starting phi)

No more lambdas: relative phi reduction between lambdas less than 0.0300  
 Lowest phi this iteration: 8.84175E+06

Current parameter values		Previous parameter values	
hk_800	0.134793	hk_800	0.134914
ghb_300	45.8053	ghb_300	9.16105
ghb_400	56.4930	ghb_400	17.9505
Maximum factor change:	5.000	["ghb_300"]	
Maximum relative change:	4.000	["ghb_300"]	

Optimisation complete: the 3 lowest phi's are within a relative distance  
 of each other of 5.000E-03

Total model calls: 38

The model has been run one final time using best parameters.  
 Thus all model input files contain best parameter values, and model  
 output files contain model results based on these parameters.

## OPTIMISATION RESULTS

Parameters ----->

Parameter	Estimated value	95% percent confidence limits	
		lower limit	upper limit
hk_800	0.134793	3.028710E-10	5.998953E+07
ghb_300	45.8053	-52082.9	52174.5
ghb_400	56.4930	-82370.2	82483.2

Note: confidence limits provide only an indication of parameter uncertainty.

# drain\_highk.rec

They rely on a linearity assumption which may not extend as far in parameter space as the confidence limits themselves - see PEST manual.

See file drain\_highk.sen for parameter sensitivities.

Observations ----->

Observation	Measured value	Calculated value	Residual	weight	Group
hed1	3689.73	2985.56	704.173	0.6533	head
hed2	3698.05	3344.25	353.802	0.6533	head
hed3	3696.72	2535.73	1160.99	0.6533	head
hed4	3700.85	1059.95	2640.90	0.6533	head
hed5	3706.41	3063.77	642.639	0.6533	head
hed6	3702.56	586.599	3115.96	0.6533	head
hed7	3604.85	2320.51	1284.34	0.6533	head
no_drnf0	1.00000	-5.096541E+06	5.096542E+06	1.0000E-19	drain
no_ghbf0	1.00000	4055.08	-4054.08	1.0000E-19	ghb
no_ghbf1	1.00000	12868.5	-12867.5	1.0000E-19	ghb
no_ghbf2	1.00000	5.072682E+06	-5.072681E+06	1.0000E-19	ghb
no_ghbf3	1.00000	10031.4	-10030.4	1.0000E-19	ghb
no_chdf0	1.00000	-133333.	133334.	1.0000E-19	
const_head					
no_chdf1	1.00000	-1711.66	1712.66	1.0000E-19	
const_head					
no_chdf2	1.00000	-2675.53	2676.53	1.0000E-19	
const_head					
no_chdf3	1.00000	-45760.0	45761.0	1.0000E-19	
const_head					
no_chdf4	1.00000	-13279.1	13280.1	1.0000E-19	
const_head					
no_chdf5	1.00000	-3228.54	3229.54	1.0000E-19	
const_head					
no_chdf6	1.00000	-111499.	111500.	1.0000E-19	
const_head					
no_chdf7	1.00000	-35540.3	35541.3	1.0000E-19	
const_head					
no_chdf8	1.00000	-69171.0	69172.0	1.0000E-19	
const_head					
no_chdf9	1.00000	-66744.0	66745.0	1.0000E-19	
const_head					
no_chdf10	1.00000	-133540.	133541.	1.0000E-19	
const_head					
no_chdf11	1.00000	-1677.19	1678.19	1.0000E-19	
const_head					
no_chdf12	1.00000	-2624.80	2625.80	1.0000E-19	
const_head					
no_chdf13	1.00000	-45433.3	45434.3	1.0000E-19	
const_head					
no_chdf14	1.00000	-13057.9	13058.9	1.0000E-19	

	drain_highk.res			
const_head				
no_chdf15	1.00000	-3167.61	3168.61	1.0000E-19
const_head				
no_chdf16	1.00000	-112387.	112388.	1.0000E-19
const_head				
no_chdf17	1.00000	-34899.4	34900.4	1.0000E-19
const_head				
no_chdf18	1.00000	-67986.9	67987.9	1.0000E-19
const_head				
no_chdf19	1.00000	-66695.2	66696.2	1.0000E-19
const_head				

See file drain\_highk.res for more details of residuals in graph-ready format.

See file drain\_highk.seo for composite observation sensitivities.

Objective function ----->

Sum of squared weighted residuals (ie phi)	=	8.8418E+06
Contribution to phi from observation group "head"	=	8.8418E+06
Contribution to phi from observation group "drain"	=	2.5975E-25
Contribution to phi from observation group "ghb"	=	2.5732E-25
Contribution to phi from observation group "const_head"	=	8.6012E-28

Correlation Coefficient ----->

Correlation coefficient	=	0.8990
-------------------------	---	--------

Analysis of residuals ----->

All residuals:-

Number of residuals with non-zero weight	=	32
Mean value of non-zero weighted residuals	=	202.2
Maximum weighted residual [observation "hed6"]	=	2036.
Minimum weighted residual [observation "no_ghbf2"]	=	-5.0727E-13
Standard variance of weighted residuals	=	3.0489E+05
Standard error of weighted residuals	=	552.2

Note: the above variance was obtained by dividing the objective function by the number of system degrees of freedom (ie. number of observations with non-zero weight plus number of prior information articles with non-zero weight minus the number of adjustable parameters.) If the degrees of freedom is negative the divisor becomes the number of observations with non-zero weight plus the number of prior information items with non-zero weight.

Residuals for observation group "head":-

Number of residuals with non-zero weight	=	7
Mean value of non-zero weighted residuals	=	924.2
Maximum weighted residual [observation "hed6"]	=	2036.
Minimum weighted residual [observation "hed2"]	=	231.1
"Variance" of weighted residuals	=	1.2631E+06
"Standard error" of weighted residuals	=	1124.

Note: the above "variance" was obtained by dividing the sum of squared residuals by the number of items with non-zero weight.

Residuals for observation group "drain":-

Number of residuals with non-zero weight	=	1
Mean value of non-zero weighted residuals	=	5.0965E-13

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	drain_highk.rec	
Maximum weighted residual [observation "no_drnf0"]		= 5.0965E-13
Minimum weighted residual [observation "no_drnf0"]		= 5.0965E-13
"Variance" of weighted residuals		= 2.5975E-25
"Standard error" of weighted residuals		= 5.0965E-13

Note: the above "variance" was obtained by dividing the sum of squared residuals by the number of items with non-zero weight.

Residuals for observation group "ghb":-

Number of residuals with non-zero weight	=	4
Mean value of non-zero weighted residuals	=	-1.2749E-13
Maximum weighted residual [observation "no_ghbf0"]	=	-4.0541E-16
Minimum weighted residual [observation "no_ghbf2"]	=	-5.0727E-13
"Variance" of weighted residuals	=	6.4331E-26
"Standard error" of weighted residuals	=	2.5364E-13

Note: the above "variance" was obtained by dividing the sum of squared residuals by the number of items with non-zero weight.

Residuals for observation group "const\_head":-

Number of residuals with non-zero weight	=	20
Mean value of non-zero weighted residuals	=	4.8222E-15
Maximum weighted residual [observation "no_chdf10"]	=	1.3354E-14
Minimum weighted residual [observation "no_chdf11"]	=	1.6782E-16
"Variance" of weighted residuals	=	4.3006E-29
"Standard error" of weighted residuals	=	6.5579E-15

Note: the above "variance" was obtained by dividing the sum of squared residuals by the number of items with non-zero weight.

Parameter covariance matrix ----->

	hk_800	ghb_300	ghb_400
hk_800	17.88	-9.1371E+04	9.7420E+04
ghb_300	-9.1371E+04	6.4978E+08	-8.5564E+08
ghb_400	9.7420E+04	-8.5564E+08	1.6246E+09

Parameter correlation coefficient matrix ----->

	hk_800	ghb_300	ghb_400
hk_800	1.000	-0.8476	0.5715
ghb_300	-0.8476	1.000	-0.8328
ghb_400	0.5715	-0.8328	1.000

Normalized eigenvectors of parameter covariance matrix ----->

	Vector_1	Vector_2	Vector_3
hk_800	1.000	1.9705E-04	6.1332E-05
ghb_300	2.0118E-04	-0.8646	-0.5025
ghb_400	4.5994E-05	-0.5025	0.8646

Eigenvalues ----->

3.983	1.5246E+08	2.1219E+09
-------	------------	------------

DRAIN\_HIGHK.snn

3 0 0 3

0 0 0 0

HK\_800 1 1 1.4 0.001 20.0 1.0

GHB\_300 1 0 0.1 0.001 1000.0 1.0

GHB\_400 1 0 0.1 0.001 1000.0 1.0

DRAIN\_HIGHK.we1

#GMS\_HDF5\_01

1	40	AUX	IFACE	AUX	QFACT	AUX	CELLGRP
			1		0		0

GMS\_HDF5\_01 "DRAIN\_HIGHK.h5" "we11" 1