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# Main Tank Constrained

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## Solution 1

Iteration Count = 219100	Function Value = 35.298980	Percentage Difference = 0.000000	Gradient
Norm = 1992.093872 alpha mult = 0.000037			
Iteration Count = 219200	Function Value = 35.298977	Percentage Difference = 0.000000	Gradient
Norm = 1992.093872 alpha mult = 0.000037			
Iteration Count = 219300	Function Value = 35.298977	Percentage Difference = 0.000000	Gradient
Norm = 1992.093872 alpha mult = 0.000037			
Iteration Count = 219400	Function Value = 35.298975	Percentage Difference = 0.000000	Gradient
Norm = 1992.093872 alpha mult = 0.000037			
Iteration Count = 219500	Function Value = 35.298973	Percentage Difference = 0.000000	Gradient
Norm = 1992.093872 alpha mult = 0.000037			
Iteration Count = 219600	Function Value = 35.298974	Percentage Difference = -0.000000	Gradient
Norm = 1992.093872 alpha mult = 0.000037			
Iteration Count = 219700	Function Value = 35.298977	Percentage Difference = -0.000000	Gradient
Norm = 1992.093872 alpha mult = 0.000037			
Iteration Count = 219800	Function Value = 35.298975	Percentage Difference = -0.000000	Gradient
Norm = 1992.093872 alpha mult = 0.000037			
Iteration Count = 219900	Function Value = 35.298974	Percentage Difference = 0.000000	Gradient
Norm = 1992.093872 alpha mult = 0.000037			
Iteration Count = 220000	Function Value = 35.298976	Percentage Difference = 0.000000	Gradient
Norm = 1992.093994 alpha mult = 0.000037			

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Iteration Count = 220001

## Valve ID = 80

Valve Value [0] = 0.000000	Gradient = 0.002003
Valve Value [1] = 0.000000	Gradient = 0.002003
Valve Value [2] = 0.000000	Gradient = 0.002003
Valve Value [3] = 0.000000	Gradient = 0.002003
Valve Value [4] = 0.000000	Gradient = 0.002003
Valve Value [5] = 0.000000	Gradient = 0.002003
Valve Value [6] = 0.000000	Gradient = 0.002003
Valve Value [7] = 0.000000	Gradient = 0.002003
Valve Value [8] = 0.000000	Gradient = 0.002003
Valve Value [9] = 0.000000	Gradient = 0.002003
Valve Value [10] = 0.000000	Gradient = 0.002003
Valve Value [11] = 0.000000	Gradient = 0.002003
Valve Value [12] = 0.000000	Gradient = 0.002003
Valve Value [13] = 0.000000	Gradient = 0.002003
Valve Value [14] = 0.000000	Gradient = 0.002003
Valve Value [15] = 0.000000	Gradient = 0.002003
Valve Value [16] = 0.000000	Gradient = 0.002003
Valve Value [17] = 0.000000	Gradient = 0.002003
Valve Value [18] = 0.000000	Gradient = 0.002003
Valve Value [19] = 0.000000	Gradient = 0.002003
Valve Value [20] = 0.000000	Gradient = 0.002003
Valve Value [21] = 0.000000	Gradient = 0.002003
Valve Value [22] = 0.000000	Gradient = 0.002003
Valve Value [23] = 0.000000	Gradient = 0.002003

## Valve ID = 78

Valve Value [0] = 32.177723	Gradient = 0.002232
Valve Value [1] = 28.174454	Gradient = 0.002556
Valve Value [2] = 2.758894	Gradient = 0.001545
Valve Value [3] = 32.255451	Gradient = 0.004005
Valve Value [4] = 20.578644	Gradient = 0.001259
Valve Value [5] = 19.007080	Gradient = 0.000896
Valve Value [6] = 53.521961	Gradient = 0.001163
Valve Value [7] = 53.924419	Gradient = 0.000896

Valve Value [8]	= 62.301395	Gradient = 0.000515
Valve Value [9]	= 57.860081	Gradient = 0.000820
Valve Value [10]	= 6.930030	Gradient = -0.009174
Valve Value [11]	= 35.808369	Gradient = -0.001602
Valve Value [12]	= 17.626621	Gradient = 0.000286
Valve Value [13]	= 39.946629	Gradient = -0.006390
Valve Value [14]	= 12.376292	Gradient = 0.000362
Valve Value [15]	= 36.964123	Gradient = 0.001221
Valve Value [16]	= 15.542501	Gradient = 0.000992
Valve Value [17]	= 36.536915	Gradient = 0.003128
Valve Value [18]	= 42.490280	Gradient = 0.000534
Valve Value [19]	= 36.750393	Gradient = 0.000687
Valve Value [20]	= 25.366861	Gradient = -0.001278
Valve Value [21]	= 20.145193	Gradient = -0.000648
Valve Value [22]	= 10.083963	Gradient = 0.000534
Valve Value [23]	= 0.000000	Gradient = 0.002003

## Valve ID = 76

Valve Value [0]	= 0.038475	Gradient = 0.000439
Valve Value [1]	= 12.381019	Gradient = 0.001221
Valve Value [2]	= 0.000000	Gradient = 44.632874
Valve Value [3]	= 11.526087	Gradient = 0.005379
Valve Value [4]	= 8.061313	Gradient = 0.000877
Valve Value [5]	= 11.031863	Gradient = -0.000534
Valve Value [6]	= 24.271534	Gradient = -0.000286
Valve Value [7]	= 37.325058	Gradient = 0.000706
Valve Value [8]	= 36.194843	Gradient = -0.000076
Valve Value [9]	= 25.798403	Gradient = -0.001068
Valve Value [10]	= 10.404519	Gradient = -0.012608
Valve Value [11]	= 6.680814	Gradient = -0.002422
Valve Value [12]	= 19.109339	Gradient = -0.000458
Valve Value [13]	= 14.664110	Gradient = -0.001621
Valve Value [14]	= 16.284618	Gradient = -0.000362
Valve Value [15]	= 7.573043	Gradient = -0.000877
Valve Value [16]	= 15.557719	Gradient = -0.000935
Valve Value [17]	= 9.589520	Gradient = 0.000401
Valve Value [18]	= 17.126434	Gradient = 0.001926
Valve Value [19]	= 21.327318	Gradient = 0.001087
Valve Value [20]	= 14.599547	Gradient = 0.003109
Valve Value [21]	= 10.791697	Gradient = 0.004940
Valve Value [22]	= 14.413294	Gradient = 0.002193
Valve Value [23]	= 2.892633	Gradient = -0.000992

## Valve ID = 74

Valve Value [0]	= 26.001165	Gradient = 0.000362
Valve Value [1]	= 37.700798	Gradient = -0.000916
Valve Value [2]	= 50.757923	Gradient = 0.000782
Valve Value [3]	= 66.494507	Gradient = 0.002327
Valve Value [4]	= 41.368141	Gradient = -0.000076
Valve Value [5]	= 75.755363	Gradient = 0.001106
Valve Value [6]	= 84.221512	Gradient = 0.000801
Valve Value [7]	= 85.813133	Gradient = 0.000095
Valve Value [8]	= 78.223915	Gradient = -0.001163
Valve Value [9]	= 75.894737	Gradient = -0.000801
Valve Value [10]	= 35.792797	Gradient = -0.012741
Valve Value [11]	= 65.776611	Gradient = 0.000401
Valve Value [12]	= 56.443291	Gradient = -0.000916
Valve Value [13]	= 79.924438	Gradient = -0.002098
Valve Value [14]	= 50.895714	Gradient = -0.000877
Valve Value [15]	= 44.315472	Gradient = -0.000305
Valve Value [16]	= 73.631790	Gradient = -0.000134
Valve Value [17]	= 81.668747	Gradient = 0.004005
Valve Value [18]	= 62.262508	Gradient = 0.004005
Valve Value [19]	= 73.189163	Gradient = -0.001678
Valve Value [20]	= 57.232632	Gradient = -0.002403
Valve Value [21]	= 63.189323	Gradient = -0.003128

Valve Value [22] = 15.566212      Gradient = -0.001907  
Valve Value [23] = 0.000000      Gradient = 0.001984

## Valve ID = 72

Valve Value [0] = 76.352699      Gradient = 0.002403  
Valve Value [1] = 51.539822      Gradient = 0.002136  
Valve Value [2] = 121.441620      Gradient = 0.002441  
Valve Value [3] = 82.620987      Gradient = 0.002708  
Valve Value [4] = 87.094292      Gradient = 0.002308  
Valve Value [5] = 130.182053      Gradient = 0.002499  
Valve Value [6] = 74.680923      Gradient = 0.002117  
Valve Value [7] = 75.264359      Gradient = 0.001659  
Valve Value [8] = 69.285828      Gradient = -0.003471  
Valve Value [9] = 64.637070      Gradient = 0.000916  
Valve Value [10] = 84.608757      Gradient = -0.004654  
Valve Value [11] = 98.192276      Gradient = 0.002594  
Valve Value [12] = 94.535324      Gradient = 0.000954  
Valve Value [13] = 74.495049      Gradient = -0.003433  
Valve Value [14] = 93.464203      Gradient = 0.001221  
Valve Value [15] = 97.510239      Gradient = 0.001202  
Valve Value [16] = 84.093018      Gradient = 0.001202  
Valve Value [17] = 94.723480      Gradient = 0.004005  
Valve Value [18] = 91.071404      Gradient = 0.003109  
Valve Value [19] = 89.997696      Gradient = 0.001335  
Valve Value [20] = 108.668045      Gradient = 0.001888  
Valve Value [21] = 100.423599      Gradient = 0.000801  
Valve Value [22] = 91.457085      Gradient = 0.000534  
Valve Value [23] = 44.255127      Gradient = 0.000000

## Valve ID = 40

Valve Value [0] = 48.558910      Gradient = -0.001373  
Valve Value [1] = 49.609184      Gradient = -0.001354  
Valve Value [2] = 35.586761      Gradient = -0.001545  
Valve Value [3] = 26.469423      Gradient = 0.000553  
Valve Value [4] = 53.340176      Gradient = -0.001545  
Valve Value [5] = 27.035156      Gradient = -0.001335  
Valve Value [6] = 44.612988      Gradient = -0.001202  
Valve Value [7] = 32.212128      Gradient = -0.001068  
Valve Value [8] = 42.628593      Gradient = -0.001335  
Valve Value [9] = 45.801704      Gradient = -0.000191  
Valve Value [10] = 56.262287      Gradient = -0.007820  
Valve Value [11] = 51.002716      Gradient = -0.000935  
Valve Value [12] = 24.501432      Gradient = -0.000496  
Valve Value [13] = 21.139946      Gradient = -0.007305  
Valve Value [14] = 63.619576      Gradient = -0.000210  
Valve Value [15] = 55.335327      Gradient = -0.000668  
Valve Value [16] = 27.794827      Gradient = -0.000839  
Valve Value [17] = 22.696043      Gradient = 0.000591  
Valve Value [18] = 50.574471      Gradient = -0.000687  
Valve Value [19] = 35.902382      Gradient = -0.000420  
Valve Value [20] = 37.263580      Gradient = -0.001144  
Valve Value [21] = 44.419533      Gradient = -0.000477  
Valve Value [22] = 35.393330      Gradient = 0.000458  
Valve Value [23] = 0.000000      Gradient = 0.001297

## Valve ID = 6

Valve Value [0] = 183.164108      Gradient = 0.003395  
Valve Value [1] = 179.385117      Gradient = 0.002594  
Valve Value [2] = 210.529449      Gradient = 0.002460  
Valve Value [3] = 204.810989      Gradient = 0.001793  
Valve Value [4] = 210.417877      Gradient = 0.001926  
Valve Value [5] = 262.973328      Gradient = 0.002098  
Valve Value [6] = 281.263977      Gradient = 0.001774  
Valve Value [7] = 284.495575      Gradient = 0.000954

Valve Value [8]	= 297.435577	Gradient = 0.005512
Valve Value [9]	= 269.928680	Gradient = -0.000572
Valve Value [10]	= 241.163467	Gradient = 0.004005
Valve Value [11]	= 257.374420	Gradient = -0.002289
Valve Value [12]	= 212.162918	Gradient = -0.000839
Valve Value [13]	= 233.158798	Gradient = 0.004005
Valve Value [14]	= 236.595032	Gradient = -0.000057
Valve Value [15]	= 241.645477	Gradient = 0.000458
Valve Value [16]	= 216.567062	Gradient = 0.000305
Valve Value [17]	= 239.615677	Gradient = -0.002213
Valve Value [18]	= 254.390106	Gradient = -0.001106
Valve Value [19]	= 257.138336	Gradient = 0.000839
Valve Value [20]	= 243.100510	Gradient = 0.000019
Valve Value [21]	= 238.968124	Gradient = 0.000668
Valve Value [22]	= 166.891449	Gradient = 0.000114
Valve Value [23]	= 44.805492	Gradient = 0.001221

## Valve ID = 3

Valve Value [0]	= 106.769081	Gradient = 0.001640
Valve Value [1]	= 127.833130	Gradient = 0.000954
Valve Value [2]	= 89.087929	Gradient = 0.000515
Valve Value [3]	= 122.216835	Gradient = -0.000401
Valve Value [4]	= 123.334625	Gradient = 0.000153
Valve Value [5]	= 132.812103	Gradient = 0.000038
Valve Value [6]	= 206.609024	Gradient = -0.000019
Valve Value [7]	= 209.258514	Gradient = -0.000420
Valve Value [8]	= 219.314789	Gradient = -0.003033
Valve Value [9]	= 205.317459	Gradient = -0.001297
Valve Value [10]	= 160.464966	Gradient = 0.004005
Valve Value [11]	= 159.891586	Gradient = 0.004005
Valve Value [12]	= 117.650497	Gradient = -0.001621
Valve Value [13]	= 162.774445	Gradient = 0.004005
Valve Value [14]	= 143.149704	Gradient = -0.001106
Valve Value [15]	= 144.146988	Gradient = -0.000610
Valve Value [16]	= 132.488327	Gradient = -0.000782
Valve Value [17]	= 145.339081	Gradient = 0.002270
Valve Value [18]	= 193.917694	Gradient = 0.004005
Valve Value [19]	= 167.152237	Gradient = -0.000420
Valve Value [20]	= 136.918839	Gradient = 0.004005
Valve Value [21]	= 138.552948	Gradient = -0.000229
Valve Value [22]	= 75.440422	Gradient = -0.000381
Valve Value [23]	= 0.532490	Gradient = 0.000801

## Valve ID = 5

Valve Value [0]	= 26.054741	Gradient = 0.001125
Valve Value [1]	= 59.510448	Gradient = 0.003986
Valve Value [2]	= 50.758842	Gradient = 0.000992
Valve Value [3]	= 140.736801	Gradient = 0.003986
Valve Value [4]	= 55.242786	Gradient = 0.004005
Valve Value [5]	= 86.779320	Gradient = 0.000954
Valve Value [6]	= 108.489403	Gradient = 0.000801
Valve Value [7]	= 123.146317	Gradient = 0.000801
Valve Value [8]	= 114.415329	Gradient = -0.001717
Valve Value [9]	= 101.680328	Gradient = -0.002060
Valve Value [10]	= 89.346359	Gradient = 0.004005
Valve Value [11]	= 72.435638	Gradient = -0.002117
Valve Value [12]	= 75.545090	Gradient = -0.001488
Valve Value [13]	= 94.575493	Gradient = -0.003910
Valve Value [14]	= 67.174057	Gradient = -0.001354
Valve Value [15]	= 51.877251	Gradient = -0.001259
Valve Value [16]	= 89.178291	Gradient = -0.001049
Valve Value [17]	= 86.137581	Gradient = -0.001564
Valve Value [18]	= 70.325066	Gradient = -0.003872
Valve Value [19]	= 94.529037	Gradient = -0.000572
Valve Value [20]	= 71.858910	Gradient = 0.000229
Valve Value [21]	= 74.012589	Gradient = -0.000343

Valve Value [22] = 29.985003  
Valve Value [23] = 2.837846

Gradient = -0.001392  
Gradient = -0.000362

Tank ID = 34

Tank Level[0] = 14.864641%,	Tank Inflow = 240.000000,	Tank Outflow = 183.121887,
Tank Level[1] = 35.531307%,	Tank Inflow = 240.000000,	Tank Outflow = 179.372940,
Tank Level[2] = 57.560158%,	Tank Inflow = 240.000000,	Tank Outflow = 210.529465,
Tank Level[3] = 68.268280%,	Tank Inflow = 240.000000,	Tank Outflow = 204.811005,
Tank Level[4] = 81.054199%,	Tank Inflow = 240.000000,	Tank Outflow = 210.417892,
Tank Level[5] = 91.802872%,	Tank Inflow = 240.000000,	Tank Outflow = 262.973358,
Tank Level[6] = 83.455498%,	Tank Inflow = 240.000000,	Tank Outflow = 281.264008,
Tank Level[7] = 68.462212%,	Tank Inflow = 240.000000,	Tank Outflow = 284.495605,
Tank Level[8] = 52.294727%,	Tank Inflow = 240.000000,	Tank Outflow = 288.600708,
Tank Level[9] = 34.635658%,	Tank Inflow = 240.000000,	Tank Outflow = 269.928711,
Tank Level[10] = 23.761053%,	Tank Inflow = 240.000000,	Tank Outflow = 193.999039,
Tank Level[11] = 40.475513%,	Tank Inflow = 240.000000,	Tank Outflow = 257.374451,
Tank Level[12] = 34.162502%,	Tank Inflow = 240.000000,	Tank Outflow = 212.162933,
Tank Level[13] = 44.277103%,	Tank Inflow = 240.000000,	Tank Outflow = 230.156952,
Tank Level[14] = 47.853573%,	Tank Inflow = 240.000000,	Tank Outflow = 236.595047,
Tank Level[15] = 49.090767%,	Tank Inflow = 240.000000,	Tank Outflow = 241.645493,
Tank Level[16] = 48.492874%,	Tank Inflow = 240.000000,	Tank Outflow = 216.567078,
Tank Level[17] = 57.007229%,	Tank Inflow = 240.000000,	Tank Outflow = 239.615692,
Tank Level[18] = 57.146866%,	Tank Inflow = 240.000000,	Tank Outflow = 254.390121,
Tank Level[19] = 51.918209%,	Tank Inflow = 240.000000,	Tank Outflow = 257.138367,
Tank Level[20] = 45.690983%,	Tank Inflow = 240.000000,	Tank Outflow = 243.100525,
Tank Level[21] = 44.564407%,	Tank Inflow = 240.000000,	Tank Outflow = 238.968140,
Tank Level[22] = 44.939335%,	Tank Inflow = 240.000000,	Tank Outflow = 166.891464,
Tank Level[23] = 71.503326%,	Tank Inflow = 240.000000,	Tank Outflow = 44.787704,
Tank Level[24] = 142.433731%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

Tank ID = Veeranageeri

Tank Level[0] = 27.123775%,	Tank Inflow = 32.170609,	Tank Outflow = 5.625000,
Tank Level[1] = 46.239010%,	Tank Inflow = 28.142399,	Tank Outflow = 5.625000,
Tank Level[2] = 62.453564%,	Tank Inflow = 2.743193,	Tank Outflow = 5.625000,
Tank Level[3] = 60.378403%,	Tank Inflow = 17.726822,	Tank Outflow = 5.625000,
Tank Level[4] = 69.092804%,	Tank Inflow = 20.564766,	Tank Outflow = 11.250000,
Tank Level[5] = 75.800278%,	Tank Inflow = 18.997774,	Tank Outflow = 28.125000,
Tank Level[6] = 69.227852%,	Tank Inflow = 53.506725,	Tank Outflow = 56.250000,
Tank Level[7] = 67.252449%,	Tank Inflow = 53.908291,	Tank Outflow = 70.312500,
Tank Level[8] = 55.439941%,	Tank Inflow = 62.270954,	Tank Outflow = 70.312500,
Tank Level[9] = 49.649303%,	Tank Inflow = 57.835678,	Tank Outflow = 56.250000,
Tank Level[10] = 50.791134%,	Tank Inflow = 6.930066,	Tank Outflow = 28.125000,
Tank Level[11] = 35.528866%,	Tank Inflow = 35.808388,	Tank Outflow = 28.125000,
Tank Level[12] = 41.061600%,	Tank Inflow = 17.604124,	Tank Outflow = 22.500000,
Tank Level[13] = 37.536129%,	Tank Inflow = 39.946663,	Tank Outflow = 22.500000,
Tank Level[14] = 50.099297%,	Tank Inflow = 12.356130,	Tank Outflow = 28.125000,
Tank Level[15] = 38.744289%,	Tank Inflow = 36.934361,	Tank Outflow = 16.875000,
Tank Level[16] = 53.188835%,	Tank Inflow = 15.515157,	Tank Outflow = 22.500000,
Tank Level[17] = 48.159119%,	Tank Inflow = 36.505348,	Tank Outflow = 28.125000,
Tank Level[18] = 54.193729%,	Tank Inflow = 42.490295,	Tank Outflow = 42.187500,
Tank Level[19] = 54.411766%,	Tank Inflow = 36.733356,	Tank Outflow = 42.187500,
Tank Level[20] = 50.484291%,	Tank Inflow = 25.366880,	Tank Outflow = 28.125000,
Tank Level[21] = 48.498199%,	Tank Inflow = 20.145212,	Tank Outflow = 22.500000,
Tank Level[22] = 46.802536%,	Tank Inflow = 10.067492,	Tank Outflow = 16.875000,
Tank Level[23] = 41.900517%,	Tank Inflow = -2.305257,	Tank Outflow = 11.250000,
Tank Level[24] = 32.139511%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

Tank ID = NR\_mohalla2

Tank Level[0] = 42.716774%,	Tank Inflow = 0.038485,	Tank Outflow = 2.880128,
Tank Level[1] = 38.643108%,	Tank Inflow = 12.381027,	Tank Outflow = 2.880004,
Tank Level[2] = 52.263386%,	Tank Inflow = 0.000009,	Tank Outflow = 2.880131,
Tank Level[3] = 48.134563%,	Tank Inflow = 11.526095,	Tank Outflow = 2.880128,
Tank Level[4] = 60.529064%,	Tank Inflow = 8.061321,	Tank Outflow = 5.760128,
Tank Level[5] = 63.827957%,	Tank Inflow = 11.031869,	Tank Outflow = 14.400128,
Tank Level[6] = 58.999359%,	Tank Inflow = 24.271538,	Tank Outflow = 28.799995,
Tank Level[7] = 52.507549%,	Tank Inflow = 37.325062,	Tank Outflow = 36.000130,
Tank Level[8] = 54.406918%,	Tank Inflow = 36.194843,	Tank Outflow = 36.000130,

Tank Level[9] = 54.686050%,	Tank Inflow = 25.798407,	Tank Outflow = 28.799995,
Tank Level[10] = 50.383087%,	Tank Inflow = 10.404563,	Tank Outflow = 14.400128,
Tank Level[11] = 44.655209%,	Tank Inflow = 6.680820,	Tank Outflow = 14.400130,
Tank Level[12] = 33.589119%,	Tank Inflow = 19.109343,	Tank Outflow = 11.520127,
Tank Level[13] = 44.468712%,	Tank Inflow = 14.664115,	Tank Outflow = 11.520131,
Tank Level[14] = 48.975800%,	Tank Inflow = 16.284622,	Tank Outflow = 14.400126,
Tank Level[15] = 51.677338%,	Tank Inflow = 7.573048,	Tank Outflow = 8.640129,
Tank Level[16] = 50.147614%,	Tank Inflow = 15.557724,	Tank Outflow = 11.520129,
Tank Level[17] = 55.935741%,	Tank Inflow = 9.589526,	Tank Outflow = 14.400128,
Tank Level[18] = 49.039459%,	Tank Inflow = 17.126438,	Tank Outflow = 21.600128,
Tank Level[19] = 42.626160%,	Tank Inflow = 21.327326,	Tank Outflow = 21.600128,
Tank Level[20] = 42.235081%,	Tank Inflow = 14.599574,	Tank Outflow = 14.399999,
Tank Level[21] = 42.521183%,	Tank Inflow = 10.791723,	Tank Outflow = 11.520131,
Tank Level[22] = 41.476967%,	Tank Inflow = 14.413302,	Tank Outflow = 8.640004,
Tank Level[23] = 49.753334%,	Tank Inflow = 2.892638,	Tank Outflow = 5.760129,
Tank Level[24] = 45.642612%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

Tank ID = NR\_Mohalla1

Tank Level[0] = 37.329845%,	Tank Inflow = 26.001169,	Tank Outflow = 11.394000,
Tank Level[1] = 42.637360%,	Tank Inflow = 37.700802,	Tank Outflow = 11.394000,
Tank Level[2] = 52.195946%,	Tank Inflow = 50.757927,	Tank Outflow = 11.394000,
Tank Level[3] = 66.498840%,	Tank Inflow = 66.494507,	Tank Outflow = 11.394000,
Tank Level[4] = 86.519615%,	Tank Inflow = 41.368145,	Tank Outflow = 22.788000,
Tank Level[5] = 93.270714%,	Tank Inflow = 75.747498,	Tank Outflow = 56.970001,
Tank Level[6] = 100.093529%,	Tank Inflow = 84.217651,	Tank Outflow = 113.940002,
Tank Level[7] = 89.293900%,	Tank Inflow = 85.813133,	Tank Outflow = 142.425003,
Tank Level[8] = 68.723961%,	Tank Inflow = 78.220573,	Tank Outflow = 142.425003,
Tank Level[9] = 45.395271%,	Tank Inflow = 75.882034,	Tank Outflow = 113.940002,
Tank Level[10] = 31.566898%,	Tank Inflow = 35.792835,	Tank Outflow = 56.970001,
Tank Level[11] = 23.872171%,	Tank Inflow = 65.754959,	Tank Outflow = 56.970001,
Tank Level[12] = 27.064190%,	Tank Inflow = 56.435699,	Tank Outflow = 45.576000,
Tank Level[13] = 31.010061%,	Tank Inflow = 79.911446,	Tank Outflow = 45.576000,
Tank Level[14] = 43.485851%,	Tank Inflow = 50.889439,	Tank Outflow = 56.970001,
Tank Level[15] = 41.276482%,	Tank Inflow = 44.304218,	Tank Outflow = 34.181999,
Tank Level[16] = 44.954391%,	Tank Inflow = 73.620338,	Tank Outflow = 45.576000,
Tank Level[17] = 55.144310%,	Tank Inflow = 76.548195,	Tank Outflow = 56.970001,
Tank Level[18] = 62.258049%,	Tank Inflow = 53.198513,	Tank Outflow = 85.455002,
Tank Level[19] = 50.537647%,	Tank Inflow = 73.189163,	Tank Outflow = 85.455002,
Tank Level[20] = 46.080853%,	Tank Inflow = 57.232655,	Tank Outflow = 56.970001,
Tank Level[21] = 46.176289%,	Tank Inflow = 63.189346,	Tank Outflow = 45.576000,
Tank Level[22] = 52.576103%,	Tank Inflow = 15.566216,	Tank Outflow = 34.181999,
Tank Level[23] = 45.812054%,	Tank Inflow = -0.054787,	Tank Outflow = 22.788000,
Tank Level[24] = 37.512119%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

Tank ID = Rajiv\_nagar\_II

Tank Level[0] = 34.698402%,	Tank Inflow = 76.352715,	Tank Outflow = 15.966128,
Tank Level[1] = 49.433121%,	Tank Inflow = 51.539837,	Tank Outflow = 15.966000,
Tank Level[2] = 58.113373%,	Tank Inflow = 121.441536,	Tank Outflow = 15.966128,
Tank Level[3] = 83.850067%,	Tank Inflow = 82.594139,	Tank Outflow = 15.966128,
Tank Level[4] = 100.107735%,	Tank Inflow = 87.083199,	Tank Outflow = 31.932129,
Tank Level[5] = 113.564957%,	Tank Inflow = 130.161255,	Tank Outflow = 79.830132,
Tank Level[6] = 125.846085%,	Tank Inflow = 74.654938,	Tank Outflow = 159.660004,
Tank Level[7] = 105.104286%,	Tank Inflow = 75.237160,	Tank Outflow = 199.575119,
Tank Level[8] = 74.765007%,	Tank Inflow = 69.285843,	Tank Outflow = 199.575119,
Tank Level[9] = 42.973572%,	Tank Inflow = 64.611259,	Tank Outflow = 159.660004,
Tank Level[10] = 19.781055%,	Tank Inflow = 84.608772,	Tank Outflow = 79.830132,
Tank Level[11] = 20.947077%,	Tank Inflow = 98.127617,	Tank Outflow = 79.830132,
Tank Level[12] = 25.411783%,	Tank Inflow = 94.512581,	Tank Outflow = 63.864128,
Tank Level[13] = 32.890205%,	Tank Inflow = 74.495064,	Tank Outflow = 63.864128,
Tank Level[14] = 35.484222%,	Tank Inflow = 93.445175,	Tank Outflow = 79.830132,
Tank Level[15] = 38.806385%,	Tank Inflow = 97.498680,	Tank Outflow = 47.898129,
Tank Level[16] = 50.909245%,	Tank Inflow = 84.078697,	Tank Outflow = 63.864128,
Tank Level[17] = 55.841736%,	Tank Inflow = 94.276756,	Tank Outflow = 79.830132,
Tank Level[18] = 59.366802%,	Tank Inflow = 91.000130,	Tank Outflow = 119.745132,
Tank Level[19] = 52.352840%,	Tank Inflow = 89.986183,	Tank Outflow = 119.745132,
Tank Level[20] = 45.091461%,	Tank Inflow = 108.637138,	Tank Outflow = 79.830002,
Tank Level[21] = 52.120594%,	Tank Inflow = 100.422173,	Tank Outflow = 63.864128,
Tank Level[22] = 61.040993%,	Tank Inflow = 91.450905,	Tank Outflow = 47.897999,

Tank Level[23] = 71.668190%,	Tank Inflow = 44.255146,	Tank Outflow = 31.932127,
Tank Level[24] = 74.675087%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

Tank ID = Tippu\_Park

Tank Level[0] = 32.698193%,	Tank Inflow = 48.558914,	Tank Outflow = 7.470129,
Tank Level[1] = 47.627808%,	Tank Inflow = 49.609188,	Tank Outflow = 7.469999,
Tank Level[2] = 62.939091%,	Tank Inflow = 35.586765,	Tank Outflow = 7.470129,
Tank Level[3] = 73.155281%,	Tank Inflow = 26.469427,	Tank Outflow = 7.470129,
Tank Level[4] = 80.058678%,	Tank Inflow = 53.340179,	Tank Outflow = 14.940128,
Tank Level[5] = 94.011337%,	Tank Inflow = 27.035160,	Tank Outflow = 37.350128,
Tank Level[6] = 90.263390%,	Tank Inflow = 44.612991,	Tank Outflow = 74.699997,
Tank Level[7] = 79.331276%,	Tank Inflow = 32.212132,	Tank Outflow = 93.375130,
Tank Level[8] = 57.107685%,	Tank Inflow = 42.628597,	Tank Outflow = 93.375130,
Tank Level[9] = 38.668922%,	Tank Inflow = 45.801708,	Tank Outflow = 74.699997,
Tank Level[10] = 28.168720%,	Tank Inflow = 56.262325,	Tank Outflow = 37.350128,
Tank Level[11] = 35.040474%,	Tank Inflow = 51.002735,	Tank Outflow = 37.350128,
Tank Level[12] = 40.001152%,	Tank Inflow = 24.501436,	Tank Outflow = 29.880129,
Tank Level[13] = 38.046803%,	Tank Inflow = 21.139984,	Tank Outflow = 29.880127,
Tank Level[14] = 34.871071%,	Tank Inflow = 63.619576,	Tank Outflow = 37.350128,
Tank Level[15] = 44.416080%,	Tank Inflow = 55.335331,	Tank Outflow = 22.410130,
Tank Level[16] = 56.379456%,	Tank Inflow = 27.794830,	Tank Outflow = 29.880129,
Tank Level[17] = 55.621761%,	Tank Inflow = 22.696049,	Tank Outflow = 37.350128,
Tank Level[18] = 50.297203%,	Tank Inflow = 50.574490,	Tank Outflow = 56.025131,
Tank Level[19] = 48.316708%,	Tank Inflow = 35.902386,	Tank Outflow = 56.025131,
Tank Level[20] = 41.005108%,	Tank Inflow = 37.263603,	Tank Outflow = 37.349998,
Tank Level[21] = 40.973713%,	Tank Inflow = 44.419556,	Tank Outflow = 29.880127,
Tank Level[22] = 46.256618%,	Tank Inflow = 35.393333,	Tank Outflow = 22.410000,
Tank Level[23] = 50.974117%,	Tank Inflow = 0.000000,	Tank Outflow = 14.940128,
Tank Level[24] = 45.545616%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

%%

%%  
%%

Main Tank Constrained

%%

Solution 2

%%

Iteration Count = 749100	Function Value = 35.470587	Percentage Difference = 0.000000	Gradient
Norm = 4613.250977	alpha mult = 0.000037		
Iteration Count = 749200	Function Value = 35.470587	Percentage Difference = 0.000000	Gradient
Norm = 4613.250977	alpha mult = 0.000037		
Iteration Count = 749300	Function Value = 35.470587	Percentage Difference = 0.000000	Gradient
Norm = 4613.250977	alpha mult = 0.000037		
Iteration Count = 749400	Function Value = 35.470587	Percentage Difference = 0.000000	Gradient
Norm = 4613.250977	alpha mult = 0.000037		
Iteration Count = 749500	Function Value = 35.470587	Percentage Difference = 0.000000	Gradient
Norm = 4613.250977	alpha mult = 0.000037		
Iteration Count = 749600	Function Value = 35.470587	Percentage Difference = 0.000000	Gradient
Norm = 4613.250977	alpha mult = 0.000037		
Iteration Count = 749700	Function Value = 35.470587	Percentage Difference = 0.000000	Gradient
Norm = 4613.250977	alpha mult = 0.000037		
Iteration Count = 749800	Function Value = 35.470587	Percentage Difference = 0.000000	Gradient
Norm = 4613.250977	alpha mult = 0.000037		
Iteration Count = 749900	Function Value = 35.470587	Percentage Difference = 0.000000	Gradient
Norm = 4613.250977	alpha mult = 0.000037		
Iteration Count = 750000	Function Value = 35.470587	Percentage Difference = 0.000000	Gradient
Norm = 4613.250977	alpha mult = 0.000037		

%%

Iteration Count = 750001

Valve ID = 80	
Valve Value [0] = 0.000000	Gradient = 0.001984
Valve Value [1] = 0.000000	Gradient = 0.001984
Valve Value [2] = 0.000000	Gradient = 0.001984

Valve Value [3]	= 0.000000	Gradient = 0.001984
Valve Value [4]	= 0.000000	Gradient = 0.001984
Valve Value [5]	= 0.000000	Gradient = 0.001984
Valve Value [6]	= 0.000000	Gradient = 0.001984
Valve Value [7]	= 0.000000	Gradient = 0.001984
Valve Value [8]	= 0.000000	Gradient = 0.001984
Valve Value [9]	= 0.000000	Gradient = 0.001984
Valve Value [10]	= 0.000000	Gradient = 0.001984
Valve Value [11]	= 0.000000	Gradient = 0.001984
Valve Value [12]	= 0.000000	Gradient = 0.001984
Valve Value [13]	= 0.000000	Gradient = 0.001984
Valve Value [14]	= 0.000000	Gradient = 0.001984
Valve Value [15]	= 0.000000	Gradient = 0.001984
Valve Value [16]	= 0.000000	Gradient = 0.001984
Valve Value [17]	= 0.000000	Gradient = 0.001984
Valve Value [18]	= 0.000000	Gradient = 0.001984
Valve Value [19]	= 0.000000	Gradient = 0.001984
Valve Value [20]	= 0.000000	Gradient = 0.001984
Valve Value [21]	= 0.000000	Gradient = 0.001984
Valve Value [22]	= 0.000000	Gradient = 0.001984
Valve Value [23]	= 0.000000	Gradient = 0.001984

## Valve ID = 78

Valve Value [0]	= 24.928453	Gradient = 0.003624
Valve Value [1]	= 19.336332	Gradient = 0.003357
Valve Value [2]	= 34.698624	Gradient = 0.003891
Valve Value [3]	= 4.020651	Gradient = 0.002193
Valve Value [4]	= 2.268656	Gradient = -0.001316
Valve Value [5]	= 30.301285	Gradient = 0.003986
Valve Value [6]	= 59.529968	Gradient = 0.004005
Valve Value [7]	= 71.580002	Gradient = -0.001850
Valve Value [8]	= 59.720909	Gradient = 0.000858
Valve Value [9]	= 30.057465	Gradient = -0.000362
Valve Value [10]	= 38.223431	Gradient = -0.001221
Valve Value [11]	= 18.434526	Gradient = -0.000591
Valve Value [12]	= 39.847473	Gradient = -0.005684
Valve Value [13]	= 19.944691	Gradient = -0.001049
Valve Value [14]	= 26.717539	Gradient = -0.001507
Valve Value [15]	= 15.888476	Gradient = -0.007706
Valve Value [16]	= 35.285873	Gradient = -0.007229
Valve Value [17]	= 14.763331	Gradient = -0.001507
Valve Value [18]	= 39.979183	Gradient = -0.001793
Valve Value [19]	= 44.514126	Gradient = -0.000191
Valve Value [20]	= 27.907585	Gradient = -0.000229
Valve Value [21]	= 26.188911	Gradient = -0.000286
Valve Value [22]	= 8.269578	Gradient = 0.000191
Valve Value [23]	= 0.000000	Gradient = 0.002003

## Valve ID = 76

Valve Value [0]	= 0.000000	Gradient = 67.920914
Valve Value [1]	= 10.567946	Gradient = 0.002251
Valve Value [2]	= 6.836905	Gradient = 0.001488
Valve Value [3]	= 2.878488	Gradient = 0.001068
Valve Value [4]	= 11.051141	Gradient = -0.003414
Valve Value [5]	= 14.582310	Gradient = 0.000935
Valve Value [6]	= 20.154333	Gradient = -0.000954
Valve Value [7]	= 29.857851	Gradient = 0.000935
Valve Value [8]	= 36.137074	Gradient = -0.000114
Valve Value [9]	= 29.184752	Gradient = 0.000343
Valve Value [10]	= 18.016903	Gradient = 0.000935
Valve Value [11]	= 13.848680	Gradient = -0.000229
Valve Value [12]	= 7.726432	Gradient = -0.006371
Valve Value [13]	= 11.154258	Gradient = -0.000134
Valve Value [14]	= 23.000542	Gradient = 0.001488
Valve Value [15]	= 2.703969	Gradient = -0.000420
Valve Value [16]	= 17.772474	Gradient = 0.000629



Valve Value [17]	= 16.384771	Gradient = 0.000877
Valve Value [18]	= 16.605249	Gradient = 0.000057
Valve Value [19]	= 21.370857	Gradient = 0.000267
Valve Value [20]	= 13.222860	Gradient = 0.000401
Valve Value [21]	= 6.638897	Gradient = 0.001087
Valve Value [22]	= 5.979450	Gradient = -0.000648
Valve Value [23]	= 12.039927	Gradient = -0.000706

## Valve ID = 74

Valve Value [0]	= 30.124208	Gradient = 0.000381
Valve Value [1]	= 43.867092	Gradient = -0.000820
Valve Value [2]	= 49.624832	Gradient = -0.002956
Valve Value [3]	= 59.539944	Gradient = -0.000286
Valve Value [4]	= 35.575695	Gradient = -0.004921
Valve Value [5]	= 81.938179	Gradient = -0.000458
Valve Value [6]	= 78.551430	Gradient = 0.003643
Valve Value [7]	= 75.851181	Gradient = 0.004005
Valve Value [8]	= 84.041161	Gradient = 0.000134
Valve Value [9]	= 91.356300	Gradient = -0.000458
Valve Value [10]	= 37.282803	Gradient = -0.000210
Valve Value [11]	= 70.732254	Gradient = 0.000172
Valve Value [12]	= 52.109550	Gradient = -0.005188
Valve Value [13]	= 62.718033	Gradient = 0.000229
Valve Value [14]	= 71.325272	Gradient = 0.000076
Valve Value [15]	= 52.936562	Gradient = -0.000286
Valve Value [16]	= 56.367813	Gradient = -0.000820
Valve Value [17]	= 67.471085	Gradient = -0.000019
Valve Value [18]	= 69.143890	Gradient = 0.000401
Valve Value [19]	= 70.746979	Gradient = -0.000038
Valve Value [20]	= 60.186275	Gradient = -0.000305
Valve Value [21]	= 53.778778	Gradient = -0.000668
Valve Value [22]	= 26.027887	Gradient = 0.000324
Valve Value [23]	= 5.575452	Gradient = 0.003185

## Valve ID = 72

Valve Value [0]	= 108.108025	Gradient = 0.003109
Valve Value [1]	= 56.631481	Gradient = 0.002174
Valve Value [2]	= 75.783890	Gradient = 0.001869
Valve Value [3]	= 117.535347	Gradient = 0.002041
Valve Value [4]	= 85.860817	Gradient = 0.000038
Valve Value [5]	= 98.044678	Gradient = -0.001297
Valve Value [6]	= 80.318779	Gradient = 0.002041
Valve Value [7]	= 84.831268	Gradient = -0.001488
Valve Value [8]	= 74.339317	Gradient = -0.002041
Valve Value [9]	= 71.198776	Gradient = -0.002308
Valve Value [10]	= 78.303162	Gradient = 0.001545
Valve Value [11]	= 102.362434	Gradient = -0.002670
Valve Value [12]	= 91.275414	Gradient = -0.002995
Valve Value [13]	= 92.508827	Gradient = -0.002937
Valve Value [14]	= 77.714775	Gradient = 0.000725
Valve Value [15]	= 100.316978	Gradient = -0.003662
Valve Value [16]	= 87.943352	Gradient = -0.003757
Valve Value [17]	= 92.424072	Gradient = 0.000553
Valve Value [18]	= 89.682938	Gradient = 0.001049
Valve Value [19]	= 89.937050	Gradient = 0.000172
Valve Value [20]	= 89.910110	Gradient = -0.000191
Valve Value [21]	= 85.346878	Gradient = -0.000458
Valve Value [22]	= 72.561005	Gradient = -0.000534
Valve Value [23]	= 52.639755	Gradient = -0.000248

## Valve ID = 40

Valve Value [0]	= 22.333452	Gradient = -0.000076
Valve Value [1]	= 68.650627	Gradient = -0.000706
Valve Value [2]	= 29.557554	Gradient = -0.000401

Valve Value [3]	= 53.390251	Gradient = -0.000172
Valve Value [4]	= 84.306641	Gradient = -0.002975
Valve Value [5]	= 19.155258	Gradient = 0.003414
Valve Value [6]	= 26.808872	Gradient = 0.000896
Valve Value [7]	= 9.991073	Gradient = -0.005035
Valve Value [8]	= 32.253716	Gradient = -0.001202
Valve Value [9]	= 50.504692	Gradient = -0.000248
Valve Value [10]	= 76.840904	Gradient = -0.000343
Valve Value [11]	= 26.240366	Gradient = -0.000515
Valve Value [12]	= 22.639416	Gradient = -0.005646
Valve Value [13]	= 56.923992	Gradient = -0.000362
Valve Value [14]	= 41.570683	Gradient = -0.000420
Valve Value [15]	= 35.588596	Gradient = -0.006046
Valve Value [16]	= 40.600574	Gradient = -0.005970
Valve Value [17]	= 47.701012	Gradient = -0.000248
Valve Value [18]	= 32.391598	Gradient = -0.001106
Valve Value [19]	= 34.209415	Gradient = -0.000725
Valve Value [20]	= 44.243881	Gradient = -0.000648
Valve Value [21]	= 39.746376	Gradient = -0.000763
Valve Value [22]	= 26.669035	Gradient = -0.000210
Valve Value [23]	= 17.875872	Gradient = 0.001469

## Valve ID = 6

Valve Value [0]	= 185.586502	Gradient = 0.003948
Valve Value [1]	= 199.137894	Gradient = 0.003796
Valve Value [2]	= 196.492233	Gradient = 0.003548
Valve Value [3]	= 237.410019	Gradient = 0.003281
Valve Value [4]	= 223.449860	Gradient = 0.004005
Valve Value [5]	= 265.081543	Gradient = 0.004482
Valve Value [6]	= 264.053162	Gradient = 0.002213
Valve Value [7]	= 273.924530	Gradient = 0.004768
Valve Value [8]	= 305.200806	Gradient = 0.005760
Valve Value [9]	= 274.112305	Gradient = 0.004768
Valve Value [10]	= 248.644073	Gradient = 0.000305
Valve Value [11]	= 232.995193	Gradient = 0.004005
Valve Value [12]	= 225.819427	Gradient = 0.004025
Valve Value [13]	= 248.401840	Gradient = 0.004005
Valve Value [14]	= 240.318542	Gradient = 0.000172
Valve Value [15]	= 224.744186	Gradient = 0.004005
Valve Value [16]	= 238.368851	Gradient = 0.003986
Valve Value [17]	= 238.729904	Gradient = -0.000439
Valve Value [18]	= 247.771347	Gradient = -0.001411
Valve Value [19]	= 260.755615	Gradient = -0.000534
Valve Value [20]	= 235.450027	Gradient = -0.001030
Valve Value [21]	= 211.682312	Gradient = -0.001221
Valve Value [22]	= 139.473434	Gradient = -0.001125
Valve Value [23]	= 88.052925	Gradient = 0.000896

## Valve ID = 3

Valve Value [0]	= 77.386002	Gradient = 0.003510
Valve Value [1]	= 146.068802	Gradient = 0.003967
Valve Value [2]	= 120.647110	Gradient = 0.003090
Valve Value [3]	= 119.836151	Gradient = 0.002384
Valve Value [4]	= 138.312057	Gradient = 0.004025
Valve Value [5]	= 138.195709	Gradient = -0.001717
Valve Value [6]	= 183.744492	Gradient = 0.000687
Valve Value [7]	= 195.565277	Gradient = 0.003986
Valve Value [8]	= 212.130844	Gradient = -0.000401
Valve Value [9]	= 201.098618	Gradient = -0.000877
Valve Value [10]	= 176.169144	Gradient = 0.004005
Valve Value [11]	= 129.238327	Gradient = -0.001335
Valve Value [12]	= 137.187271	Gradient = 0.004025
Valve Value [13]	= 150.728180	Gradient = -0.001488
Valve Value [14]	= 162.626587	Gradient = -0.000477
Valve Value [15]	= 135.094238	Gradient = 0.004005
Valve Value [16]	= 158.077576	Gradient = 0.004044

Valve Value [17]	= 146.325882	Gradient = -0.000954
Valve Value [18]	= 164.366882	Gradient = 0.004005
Valve Value [19]	= 170.832230	Gradient = -0.000610
Valve Value [20]	= 145.550018	Gradient = -0.000782
Valve Value [21]	= 126.344040	Gradient = -0.000763
Valve Value [22]	= 66.918709	Gradient = -0.000553
Valve Value [23]	= 35.397251	Gradient = 0.001106

## Valve ID = 5

Valve Value [0]	= 30.124161	Gradient = 0.000324
Valve Value [1]	= 54.463554	Gradient = 0.001297
Valve Value [2]	= 60.460739	Gradient = 0.004005
Valve Value [3]	= 62.433323	Gradient = 0.000763
Valve Value [4]	= 57.392662	Gradient = 0.004025
Valve Value [5]	= 96.601746	Gradient = 0.003681
Valve Value [6]	= 98.627632	Gradient = 0.002193
Valve Value [7]	= 104.308601	Gradient = -0.004826
Valve Value [8]	= 120.172554	Gradient = -0.000038
Valve Value [9]	= 120.543449	Gradient = -0.000229
Valve Value [10]	= 55.313992	Gradient = 0.000744
Valve Value [11]	= 84.571587	Gradient = -0.000172
Valve Value [12]	= 76.140671	Gradient = 0.003986
Valve Value [13]	= 73.864723	Gradient = -0.000019
Valve Value [14]	= 94.365479	Gradient = 0.001755
Valve Value [15]	= 55.634163	Gradient = -0.000763
Valve Value [16]	= 74.145523	Gradient = -0.000248
Valve Value [17]	= 83.883385	Gradient = 0.001163
Valve Value [18]	= 85.752861	Gradient = 0.000648
Valve Value [19]	= 92.128853	Gradient = 0.000553
Valve Value [20]	= 73.422569	Gradient = 0.000496
Valve Value [21]	= 60.442165	Gradient = 0.000782
Valve Value [22]	= 31.997614	Gradient = -0.000210
Valve Value [23]	= 17.583668	Gradient = 0.001659

## Tank ID = 34

Tank Level[0]	= 21.661858%,	Tank Inflow = 240.000000,	Tank Outflow = 185.494217,
Tank Level[1]	= 41.466541%,	Tank Inflow = 240.000000,	Tank Outflow = 199.054001,
Tank Level[2]	= 56.344273%,	Tank Inflow = 240.000000,	Tank Outflow = 196.431061,
Tank Level[3]	= 72.175056%,	Tank Inflow = 240.000000,	Tank Outflow = 237.365128,
Tank Level[4]	= 73.132439%,	Tank Inflow = 240.000000,	Tank Outflow = 219.063400,
Tank Level[5]	= 80.739754%,	Tank Inflow = 240.000000,	Tank Outflow = 236.240372,
Tank Level[6]	= 82.105812%,	Tank Inflow = 240.000000,	Tank Outflow = 264.053192,
Tank Level[7]	= 73.366081%,	Tank Inflow = 240.000000,	Tank Outflow = 270.711304,
Tank Level[8]	= 62.207130%,	Tank Inflow = 240.000000,	Tank Outflow = 286.470062,
Tank Level[9]	= 45.322227%,	Tank Inflow = 240.000000,	Tank Outflow = 272.297455,
Tank Level[10]	= 33.586941%,	Tank Inflow = 240.000000,	Tank Outflow = 248.644089,
Tank Level[11]	= 30.446112%,	Tank Inflow = 240.000000,	Tank Outflow = 231.600754,
Tank Level[12]	= 33.497978%,	Tank Inflow = 240.000000,	Tank Outflow = 213.598618,
Tank Level[13]	= 43.090923%,	Tank Inflow = 240.000000,	Tank Outflow = 243.237091,
Tank Level[14]	= 41.914726%,	Tank Inflow = 240.000000,	Tank Outflow = 240.318558,
Tank Level[15]	= 41.798977%,	Tank Inflow = 240.000000,	Tank Outflow = 207.428406,
Tank Level[16]	= 53.633873%,	Tank Inflow = 240.000000,	Tank Outflow = 237.970444,
Tank Level[17]	= 54.371307%,	Tank Inflow = 240.000000,	Tank Outflow = 238.729919,
Tank Level[18]	= 54.832790%,	Tank Inflow = 240.000000,	Tank Outflow = 247.771362,
Tank Level[19]	= 52.009064%,	Tank Inflow = 240.000000,	Tank Outflow = 260.755646,
Tank Level[20]	= 44.467495%,	Tank Inflow = 240.000000,	Tank Outflow = 235.450043,
Tank Level[21]	= 46.120728%,	Tank Inflow = 240.000000,	Tank Outflow = 211.682327,
Tank Level[22]	= 56.409958%,	Tank Inflow = 240.000000,	Tank Outflow = 139.473450,
Tank Level[23]	= 92.936287%,	Tank Inflow = 240.000000,	Tank Outflow = 88.037254,
Tank Level[24]	= 148.151962%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

## Tank ID = Veeranageeri

Tank Level[0]	= 30.674812%,	Tank Inflow = 24.928299,	Tank Outflow = 5.625000,
Tank Level[1]	= 44.574928%,	Tank Inflow = 19.336367,	Tank Outflow = 5.625000,
Tank Level[2]	= 54.448349%,	Tank Inflow = 34.627594,	Tank Outflow = 5.625000,
Tank Level[3]	= 75.332840%,	Tank Inflow = 4.020687,	Tank Outflow = 5.625000,

Tank Level[4] = 74.177582%,	Tank Inflow = 2.268691,	Tank Outflow = 11.250000,
Tank Level[5] = 67.710228%,	Tank Inflow = 22.519875,	Tank Outflow = 28.125000,
Tank Level[6] = 63.674030%,	Tank Inflow = 58.308060,	Tank Outflow = 56.250000,
Tank Level[7] = 65.156021%,	Tank Inflow = 71.580032,	Tank Outflow = 70.312500,
Tank Level[8] = 66.068756%,	Tank Inflow = 59.704689,	Tank Outflow = 70.312500,
Tank Level[9] = 58.430180%,	Tank Inflow = 30.052860,	Tank Outflow = 56.250000,
Tank Level[10] = 39.565876%,	Tank Inflow = 38.223450,	Tank Outflow = 28.125000,
Tank Level[11] = 46.837669%,	Tank Inflow = 18.426439,	Tank Outflow = 28.125000,
Tank Level[12] = 39.853828%,	Tank Inflow = 39.847507,	Tank Outflow = 22.500000,
Tank Level[13] = 52.345600%,	Tank Inflow = 19.939667,	Tank Outflow = 22.500000,
Tank Level[14] = 50.501926%,	Tank Inflow = 26.717556,	Tank Outflow = 28.125000,
Tank Level[15] = 49.488438%,	Tank Inflow = 15.888512,	Tank Outflow = 16.875000,
Tank Level[16] = 48.778076%,	Tank Inflow = 35.285908,	Tank Outflow = 22.500000,
Tank Level[17] = 57.985085%,	Tank Inflow = 14.763350,	Tank Outflow = 28.125000,
Tank Level[18] = 48.363491%,	Tank Inflow = 39.979202,	Tank Outflow = 42.187500,
Tank Level[19] = 46.773319%,	Tank Inflow = 44.504917,	Tank Outflow = 42.187500,
Tank Level[20] = 48.442066%,	Tank Inflow = 27.897100,	Tank Outflow = 28.125000,
Tank Level[21] = 48.277958%,	Tank Inflow = 26.179701,	Tank Outflow = 22.500000,
Tank Level[22] = 50.927673%,	Tank Inflow = 8.251949,	Tank Outflow = 16.875000,
Tank Level[23] = 44.718300%,	Tank Inflow = -0.062170,	Tank Outflow = 11.250000,
Tank Level[24] = 36.572517%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

Tank ID = NR\_mohalla2

Tank Level[0] = 44.264343%,	Tank Inflow = 0.000005,	Tank Outflow = 2.880131,
Tank Level[1] = 40.135509%,	Tank Inflow = 10.567990,	Tank Outflow = 2.880128,
Tank Level[2] = 51.156513%,	Tank Inflow = 6.836914,	Tank Outflow = 2.880004,
Tank Level[3] = 56.828976%,	Tank Inflow = 2.878531,	Tank Outflow = 2.880129,
Tank Level[4] = 56.826687%,	Tank Inflow = 11.051185,	Tank Outflow = 5.760131,
Tank Level[5] = 64.411728%,	Tank Inflow = 14.582317,	Tank Outflow = 14.400128,
Tank Level[6] = 64.672905%,	Tank Inflow = 20.154337,	Tank Outflow = 28.800129,
Tank Level[7] = 52.278652%,	Tank Inflow = 29.857855,	Tank Outflow = 36.000130,
Tank Level[8] = 43.473335%,	Tank Inflow = 36.137074,	Tank Outflow = 36.000130,
Tank Level[9] = 43.669655%,	Tank Inflow = 29.184757,	Tank Outflow = 28.800129,
Tank Level[10] = 44.221039%,	Tank Inflow = 18.016928,	Tank Outflow = 14.399999,
Tank Level[11] = 49.406120%,	Tank Inflow = 13.848685,	Tank Outflow = 14.400130,
Tank Level[12] = 48.615593%,	Tank Inflow = 7.726476,	Tank Outflow = 11.520131,
Tank Level[13] = 43.177162%,	Tank Inflow = 11.154263,	Tank Outflow = 11.520131,
Tank Level[14] = 42.652668%,	Tank Inflow = 23.000566,	Tank Outflow = 14.400003,
Tank Level[15] = 54.982086%,	Tank Inflow = 2.703975,	Tank Outflow = 8.640131,
Tank Level[16] = 46.472252%,	Tank Inflow = 17.772516,	Tank Outflow = 11.520001,
Tank Level[17] = 55.435604%,	Tank Inflow = 16.384798,	Tank Outflow = 14.400003,
Tank Level[18] = 58.280926%,	Tank Inflow = 16.605274,	Tank Outflow = 21.599998,
Tank Level[19] = 51.120689%,	Tank Inflow = 21.370865,	Tank Outflow = 21.600004,
Tank Level[20] = 50.792202%,	Tank Inflow = 13.222869,	Tank Outflow = 14.400128,
Tank Level[21] = 49.104534%,	Tank Inflow = 6.638906,	Tank Outflow = 11.520129,
Tank Level[22] = 42.107010%,	Tank Inflow = 5.979455,	Tank Outflow = 8.640129,
Tank Level[23] = 38.292778%,	Tank Inflow = 12.039931,	Tank Outflow = 5.760129,
Tank Level[24] = 47.295242%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

Tank ID = NR\_Mohalla1

Tank Level[0] = 39.178192%,	Tank Inflow = 30.124157,	Tank Outflow = 11.394000,
Tank Level[1] = 45.983799%,	Tank Inflow = 43.867130,	Tank Outflow = 11.394000,
Tank Level[2] = 57.782917%,	Tank Inflow = 49.624836,	Tank Outflow = 11.394000,
Tank Level[3] = 71.674103%,	Tank Inflow = 59.539982,	Tank Outflow = 11.394000,
Tank Level[4] = 89.167946%,	Tank Inflow = 35.575733,	Tank Outflow = 22.788000,
Tank Level[5] = 93.814377%,	Tank Inflow = 81.938179,	Tank Outflow = 56.970001,
Tank Level[6] = 102.886566%,	Tank Inflow = 78.473206,	Tank Outflow = 113.940002,
Tank Level[7] = 89.999695%,	Tank Inflow = 74.450684,	Tank Outflow = 142.425003,
Tank Level[8] = 65.301208%,	Tank Inflow = 84.035713,	Tank Outflow = 142.425003,
Tank Level[9] = 44.085449%,	Tank Inflow = 91.356300,	Tank Outflow = 113.940002,
Tank Level[10] = 35.879654%,	Tank Inflow = 37.282825,	Tank Outflow = 56.970001,
Tank Level[11] = 28.726313%,	Tank Inflow = 70.723106,	Tank Outflow = 56.970001,
Tank Level[12] = 33.723503%,	Tank Inflow = 52.109589,	Tank Outflow = 45.576000,
Tank Level[13] = 36.097488%,	Tank Inflow = 62.710499,	Tank Outflow = 45.576000,
Tank Level[14] = 42.323311%,	Tank Inflow = 71.325294,	Tank Outflow = 56.970001,
Tank Level[15] = 47.539310%,	Tank Inflow = 52.930199,	Tank Outflow = 34.181999,
Tank Level[16] = 54.351467%,	Tank Inflow = 56.367851,	Tank Outflow = 45.576000,
Tank Level[17] = 58.272690%,	Tank Inflow = 67.471107,	Tank Outflow = 56.970001,

Tank Level[18] = 62.088264%,	Tank Inflow = 69.143913,	Tank Outflow = 85.455002,
Tank Level[19] = 56.161625%,	Tank Inflow = 70.746979,	Tank Outflow = 85.455002,
Tank Level[20] = 50.817463%,	Tank Inflow = 60.186279,	Tank Outflow = 56.970001,
Tank Level[21] = 51.986099%,	Tank Inflow = 53.778782,	Tank Outflow = 45.576000,
Tank Level[22] = 54.966583%,	Tank Inflow = 26.018021,	Tank Outflow = 34.181999,
Tank Level[23] = 52.000198%,	Tank Inflow = 5.543802,	Tank Outflow = 22.788000,
Tank Level[24] = 45.734516%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

Tank ID = Rajiv\_nagar\_II

Tank Level[0] = 37.540062%,	Tank Inflow = 108.108040,	Tank Outflow = 15.966128,
Tank Level[1] = 60.023293%,	Tank Inflow = 56.631496,	Tank Outflow = 15.966128,
Tank Level[2] = 69.945908%,	Tank Inflow = 75.783905,	Tank Outflow = 15.966000,
Tank Level[3] = 84.541870%,	Tank Inflow = 117.535362,	Tank Outflow = 15.966128,
Tank Level[4] = 109.325432%,	Tank Inflow = 85.860832,	Tank Outflow = 31.932129,
Tank Level[5] = 122.484383%,	Tank Inflow = 98.044693,	Tank Outflow = 79.830132,
Tank Level[6] = 126.928848%,	Tank Inflow = 80.308670,	Tank Outflow = 159.660126,
Tank Level[7] = 107.566582%,	Tank Inflow = 84.831284,	Tank Outflow = 199.575119,
Tank Level[8] = 79.568321%,	Tank Inflow = 74.339333,	Tank Outflow = 199.575119,
Tank Level[9] = 49.009972%,	Tank Inflow = 71.198792,	Tank Outflow = 159.660126,
Tank Level[10] = 27.424822%,	Tank Inflow = 78.279716,	Tank Outflow = 79.830002,
Tank Level[11] = 27.046543%,	Tank Inflow = 102.362450,	Tank Outflow = 79.830132,
Tank Level[12] = 32.544579%,	Tank Inflow = 91.275429,	Tank Outflow = 63.864128,
Tank Level[13] = 39.233112%,	Tank Inflow = 92.508842,	Tank Outflow = 63.864128,
Tank Level[14] = 46.222614%,	Tank Inflow = 77.704750,	Tank Outflow = 79.830002,
Tank Level[15] = 45.704037%,	Tank Inflow = 100.316994,	Tank Outflow = 47.898129,
Tank Level[16] = 58.494579%,	Tank Inflow = 87.943367,	Tank Outflow = 63.863998,
Tank Level[17] = 64.370110%,	Tank Inflow = 92.409286,	Tank Outflow = 79.830002,
Tank Level[18] = 67.439537%,	Tank Inflow = 89.650803,	Tank Outflow = 119.745003,
Tank Level[19] = 60.096352%,	Tank Inflow = 89.923279,	Tank Outflow = 119.745003,
Tank Level[20] = 52.819656%,	Tank Inflow = 89.899849,	Tank Outflow = 79.830132,
Tank Level[21] = 55.276730%,	Tank Inflow = 85.338165,	Tank Outflow = 63.864128,
Tank Level[22] = 60.516537%,	Tank Inflow = 72.554642,	Tank Outflow = 47.898129,
Tank Level[23] = 66.532883%,	Tank Inflow = 52.639771,	Tank Outflow = 31.932127,
Tank Level[24] = 71.585686%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

Tank ID = Tippu\_Park

Tank Level[0] = 37.615940%,	Tank Inflow = 22.333456,	Tank Outflow = 7.470129,
Tank Level[1] = 43.016537%,	Tank Inflow = 68.650665,	Tank Outflow = 7.470129,
Tank Level[2] = 65.246498%,	Tank Inflow = 29.557558,	Tank Outflow = 7.469999,
Tank Level[3] = 73.272011%,	Tank Inflow = 53.390289,	Tank Outflow = 7.470129,
Tank Level[4] = 89.957115%,	Tank Inflow = 84.306671,	Tank Outflow = 14.940128,
Tank Level[5] = 115.161461%,	Tank Inflow = 19.155264,	Tank Outflow = 37.350128,
Tank Level[6] = 108.550354%,	Tank Inflow = 26.808878,	Tank Outflow = 74.700127,
Tank Level[7] = 91.149055%,	Tank Inflow = 9.991111,	Tank Outflow = 93.375130,
Tank Level[8] = 60.851467%,	Tank Inflow = 32.253723,	Tank Outflow = 93.375130,
Tank Level[9] = 38.642990%,	Tank Inflow = 50.504696,	Tank Outflow = 74.700127,
Tank Level[10] = 29.851576%,	Tank Inflow = 76.840919,	Tank Outflow = 37.349998,
Tank Level[11] = 44.200611%,	Tank Inflow = 26.240370,	Tank Outflow = 37.350128,
Tank Level[12] = 40.163879%,	Tank Inflow = 22.639456,	Tank Outflow = 29.880127,
Tank Level[13] = 37.532982%,	Tank Inflow = 56.923996,	Tank Outflow = 29.880127,
Tank Level[14] = 47.359375%,	Tank Inflow = 41.570705,	Tank Outflow = 37.349998,
Tank Level[15] = 48.892975%,	Tank Inflow = 35.588634,	Tank Outflow = 22.410128,
Tank Level[16] = 53.681385%,	Tank Inflow = 40.600613,	Tank Outflow = 29.879999,
Tank Level[17] = 57.576729%,	Tank Inflow = 47.701035,	Tank Outflow = 37.349998,
Tank Level[18] = 61.337776%,	Tank Inflow = 32.391621,	Tank Outflow = 56.025002,
Tank Level[19] = 52.750580%,	Tank Inflow = 34.209419,	Tank Outflow = 56.025002,
Tank Level[20] = 44.823887%,	Tank Inflow = 44.243885,	Tank Outflow = 37.350128,
Tank Level[21] = 47.328735%,	Tank Inflow = 39.746380,	Tank Outflow = 29.880127,
Tank Level[22] = 50.913635%,	Tank Inflow = 26.669039,	Tank Outflow = 22.410130,
Tank Level[23] = 52.461117%,	Tank Inflow = 17.875875,	Tank Outflow = 14.940128,
Tank Level[24] = 53.527813%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

%%

Main Tank Unconstrained

%%

Iteration Count = 96100	Function Value = 35.506065	Percentage Difference = 0.000000	Gradient
Norm = 35222.742188 alpha mult = 0.000037			
Iteration Count = 96200	Function Value = 35.506065	Percentage Difference = 0.000000	Gradient
Norm = 35222.742188 alpha mult = 0.000037			
Iteration Count = 96300	Function Value = 35.506065	Percentage Difference = 0.000000	Gradient
Norm = 35222.742188 alpha mult = 0.000037			
Iteration Count = 96400	Function Value = 35.506065	Percentage Difference = 0.000000	Gradient
Norm = 35222.742188 alpha mult = 0.000037			
Iteration Count = 96500	Function Value = 35.506065	Percentage Difference = 0.000000	Gradient
Norm = 35222.742188 alpha mult = 0.000037			
Iteration Count = 96600	Function Value = 35.506065	Percentage Difference = 0.000000	Gradient
Norm = 35222.742188 alpha mult = 0.000037			
Iteration Count = 96700	Function Value = 35.506065	Percentage Difference = 0.000000	Gradient
Norm = 35222.742188 alpha mult = 0.000037			
Iteration Count = 96800	Function Value = 35.506065	Percentage Difference = 0.000000	Gradient
Norm = 35222.742188 alpha mult = 0.000037			
Iteration Count = 96900	Function Value = 35.506065	Percentage Difference = 0.000000	Gradient
Norm = 35222.742188 alpha mult = 0.000037			
Iteration Count = 97000	Function Value = 35.506065	Percentage Difference = 0.000000	Gradient
Norm = 35222.742188 alpha mult = 0.000037			

%%

Iteration Count = 97001

Valve ID = 80

Valve Value [0] = 0.000000	Gradient = 0.001984
Valve Value [1] = 0.000000	Gradient = 0.001984
Valve Value [2] = 0.000000	Gradient = 0.001984
Valve Value [3] = 0.000000	Gradient = 0.001984
Valve Value [4] = 0.000000	Gradient = 0.001984
Valve Value [5] = 0.000000	Gradient = 0.001984
Valve Value [6] = 0.000000	Gradient = 0.001984
Valve Value [7] = 0.000000	Gradient = 0.001984
Valve Value [8] = 0.000000	Gradient = 0.001984
Valve Value [9] = 0.000000	Gradient = 0.001984
Valve Value [10] = 0.000000	Gradient = 0.001984
Valve Value [11] = 0.000000	Gradient = 0.001984
Valve Value [12] = 0.000000	Gradient = 0.001984
Valve Value [13] = 0.000000	Gradient = 0.001984
Valve Value [14] = 0.000000	Gradient = 0.001984
Valve Value [15] = 0.000000	Gradient = 0.001984
Valve Value [16] = 0.000000	Gradient = 0.001984
Valve Value [17] = 0.000000	Gradient = 0.001984
Valve Value [18] = 0.000000	Gradient = 0.001984
Valve Value [19] = 0.000000	Gradient = 0.001984
Valve Value [20] = 0.000000	Gradient = 0.001984
Valve Value [21] = 0.000000	Gradient = 0.001984
Valve Value [22] = 0.000000	Gradient = 0.001984
Valve Value [23] = 0.000000	Gradient = 0.001984

Valve ID = 78

Valve Value [0] = 2.369698	Gradient = 0.002022
Valve Value [1] = 11.758882	Gradient = 0.001488
Valve Value [2] = 3.650372	Gradient = 0.001869
Valve Value [3] = 16.123415	Gradient = 0.000229
Valve Value [4] = 23.214165	Gradient = -0.000610
Valve Value [5] = 11.231751	Gradient = -0.000687
Valve Value [6] = 45.022732	Gradient = 0.000038
Valve Value [7] = 67.237480	Gradient = 0.000648
Valve Value [8] = 58.788750	Gradient = 0.000305
Valve Value [9] = 61.106384	Gradient = 0.001068

Valve Value [10]	= 39.729729	Gradient = 0.000496
Valve Value [11]	= 18.041187	Gradient = 0.000725
Valve Value [12]	= 18.857128	Gradient = 0.000648
Valve Value [13]	= 31.665258	Gradient = 0.002747
Valve Value [14]	= 134.262527	Gradient = 0.004005
Valve Value [15]	= 20.585463	Gradient = -0.002785
Valve Value [16]	= 14.852452	Gradient = 0.004044
Valve Value [17]	= 32.064732	Gradient = -0.004768
Valve Value [18]	= 51.259460	Gradient = 0.000496
Valve Value [19]	= 31.564209	Gradient = -0.000381
Valve Value [20]	= 12.682136	Gradient = -0.000267
Valve Value [21]	= 28.707371	Gradient = 0.001831
Valve Value [22]	= 29.285362	Gradient = 0.004005
Valve Value [23]	= 12.310284	Gradient = 0.001602

## Valve ID = 76

Valve Value [0]	= 0.000000	Gradient = 0.002174
Valve Value [1]	= 1.891589	Gradient = 0.000343
Valve Value [2]	= 2.367153	Gradient = 0.000458
Valve Value [3]	= 5.658293	Gradient = 0.000572
Valve Value [4]	= 10.556918	Gradient = 0.000038
Valve Value [5]	= 6.697094	Gradient = -0.000725
Valve Value [6]	= 26.091528	Gradient = -0.000763
Valve Value [7]	= 38.384205	Gradient = 0.000420
Valve Value [8]	= 33.438656	Gradient = 0.000038
Valve Value [9]	= 31.430834	Gradient = 0.000458
Valve Value [10]	= 10.577205	Gradient = -0.000458
Valve Value [11]	= 14.592088	Gradient = 0.000114
Valve Value [12]	= 23.116234	Gradient = 0.000992
Valve Value [13]	= 11.840092	Gradient = 0.000000
Valve Value [14]	= 4.882578	Gradient = -0.001297
Valve Value [15]	= 5.382865	Gradient = -0.000916
Valve Value [16]	= 15.866616	Gradient = 0.001907
Valve Value [17]	= 16.356546	Gradient = -0.000534
Valve Value [18]	= 17.743370	Gradient = -0.000114
Valve Value [19]	= 24.764336	Gradient = 0.000534
Valve Value [20]	= 22.259048	Gradient = 0.000572
Valve Value [21]	= 0.000000	Gradient = 0.001030
Valve Value [22]	= 12.279657	Gradient = -0.001488
Valve Value [23]	= 9.480855	Gradient = -0.000229

## Valve ID = 74

Valve Value [0]	= 3.204316	Gradient = 0.000877
Valve Value [1]	= 38.019955	Gradient = 0.000610
Valve Value [2]	= 11.071157	Gradient = -0.001335
Valve Value [3]	= 19.674559	Gradient = 0.000267
Valve Value [4]	= 27.746418	Gradient = 0.000191
Valve Value [5]	= 57.721828	Gradient = 0.001717
Valve Value [6]	= 102.193245	Gradient = 0.000534
Valve Value [7]	= 108.023239	Gradient = -0.000153
Valve Value [8]	= 119.016678	Gradient = -0.000610
Valve Value [9]	= 68.841476	Gradient = -0.000458
Valve Value [10]	= 98.430626	Gradient = 0.000648
Valve Value [11]	= 84.738647	Gradient = 0.000191
Valve Value [12]	= 41.603664	Gradient = -0.000572
Valve Value [13]	= 49.575481	Gradient = 0.001869
Valve Value [14]	= 118.943535	Gradient = 0.003967
Valve Value [15]	= 147.587677	Gradient = 0.004005
Valve Value [16]	= 18.046585	Gradient = 0.001640
Valve Value [17]	= 45.846188	Gradient = -0.000572
Valve Value [18]	= 58.242306	Gradient = -0.000267
Valve Value [19]	= 101.032478	Gradient = -0.000572
Valve Value [20]	= 58.983593	Gradient = -0.000648
Valve Value [21]	= 82.584404	Gradient = 0.004044
Valve Value [22]	= 50.051502	Gradient = -0.001755
Valve Value [23]	= 22.883606	Gradient = -0.000038

## Valve ID = 72

Valve Value [0]	= 50.911427	Gradient = 0.004578
Valve Value [1]	= 0.000000	Gradient = 0.001984
Valve Value [2]	= 81.529274	Gradient = 0.003967
Valve Value [3]	= 65.644966	Gradient = 0.004005
Valve Value [4]	= 98.959854	Gradient = 0.003395
Valve Value [5]	= 103.991386	Gradient = 0.004005
Valve Value [6]	= 89.664734	Gradient = 0.001259
Valve Value [7]	= 89.643509	Gradient = 0.000877
Valve Value [8]	= 96.755714	Gradient = -0.004959
Valve Value [9]	= 69.693336	Gradient = 0.000725
Valve Value [10]	= 148.336777	Gradient = 0.002098
Valve Value [11]	= 148.766113	Gradient = 0.001831
Valve Value [12]	= 95.209221	Gradient = -0.000153
Valve Value [13]	= 45.777912	Gradient = 0.003967
Valve Value [14]	= 96.308800	Gradient = 0.001488
Valve Value [15]	= 70.706337	Gradient = 0.000458
Valve Value [16]	= 154.684235	Gradient = 0.003967
Valve Value [17]	= 129.870361	Gradient = -0.000343
Valve Value [18]	= 57.182518	Gradient = 0.001259
Valve Value [19]	= 17.986380	Gradient = -0.002251
Valve Value [20]	= 139.743591	Gradient = -0.001678
Valve Value [21]	= 67.155067	Gradient = 0.004005
Valve Value [22]	= 2.530705	Gradient = -0.001717
Valve Value [23]	= 55.685074	Gradient = 0.001068

## Valve ID = 40

Valve Value [0]	= 0.000000	Gradient = 187.677231
Valve Value [1]	= 37.307613	Gradient = 0.000534
Valve Value [2]	= 11.971557	Gradient = 0.000839
Valve Value [3]	= 16.864958	Gradient = -0.000648
Valve Value [4]	= 28.663881	Gradient = -0.000916
Valve Value [5]	= 40.807652	Gradient = 0.000534
Valve Value [6]	= 35.667889	Gradient = 0.000038
Valve Value [7]	= 50.460903	Gradient = 0.000000
Valve Value [8]	= 80.013687	Gradient = -0.000343
Valve Value [9]	= 92.398453	Gradient = -0.000153
Valve Value [10]	= 31.477177	Gradient = -0.000191
Valve Value [11]	= 13.154087	Gradient = -0.000381
Valve Value [12]	= 35.780659	Gradient = 0.000000
Valve Value [13]	= 96.598083	Gradient = 0.003090
Valve Value [14]	= 44.634605	Gradient = 0.000839
Valve Value [15]	= 3.231138	Gradient = -0.002213
Valve Value [16]	= 64.406799	Gradient = 0.004349
Valve Value [17]	= 8.608088	Gradient = -0.003586
Valve Value [18]	= 53.475082	Gradient = -0.000305
Valve Value [19]	= 38.826485	Gradient = -0.000534
Valve Value [20]	= 25.974852	Gradient = -0.000534
Valve Value [21]	= 12.574105	Gradient = 0.001755
Valve Value [22]	= 57.982403	Gradient = 0.000648
Valve Value [23]	= 6.252959	Gradient = -0.000687

## Valve ID = 6

Valve Value [0]	= 57.853889	Gradient = 0.004005
Valve Value [1]	= 88.976257	Gradient = 0.004082
Valve Value [2]	= 113.075607	Gradient = 0.004005
Valve Value [3]	= 113.979591	Gradient = 0.002975
Valve Value [4]	= 189.115753	Gradient = 0.002098
Valve Value [5]	= 204.538605	Gradient = -0.000801
Valve Value [6]	= 298.615997	Gradient = 0.001106
Valve Value [7]	= 353.728210	Gradient = 0.001717
Valve Value [8]	= 389.286713	Gradient = 0.008469
Valve Value [9]	= 323.453613	Gradient = 0.001640



Valve Value [10]	= 328.531708	Gradient = 0.002518
Valve Value [11]	= 279.284546	Gradient = 0.002480
Valve Value [12]	= 233.263657	Gradient = 0.004005
Valve Value [13]	= 227.311386	Gradient = -0.000114
Valve Value [14]	= 245.026093	Gradient = 0.002785
Valve Value [15]	= 210.472137	Gradient = 0.004044
Valve Value [16]	= 209.967163	Gradient = 0.000381
Valve Value [17]	= 233.029770	Gradient = 0.004005
Valve Value [18]	= 237.890991	Gradient = 0.001030
Valve Value [19]	= 228.983185	Gradient = 0.004005
Valve Value [20]	= 262.317902	Gradient = 0.004425
Valve Value [21]	= 123.628128	Gradient = -0.001678
Valve Value [22]	= 194.423416	Gradient = 0.004005
Valve Value [23]	= 106.605370	Gradient = 0.001717

## Valve ID = 3

Valve Value [0]	= 5.582521	Gradient = 0.002556
Valve Value [1]	= 88.998917	Gradient = 0.002975
Valve Value [2]	= 29.058657	Gradient = 0.001793
Valve Value [3]	= 69.492996	Gradient = 0.004005
Valve Value [4]	= 195.126923	Gradient = 0.004005
Valve Value [5]	= 120.758698	Gradient = 0.004044
Valve Value [6]	= 208.963211	Gradient = -0.000153
Valve Value [7]	= 264.099365	Gradient = 0.000801
Valve Value [8]	= 291.242645	Gradient = -0.000763
Valve Value [9]	= 253.769547	Gradient = 0.000954
Valve Value [10]	= 197.895645	Gradient = 0.004005
Valve Value [11]	= 130.521255	Gradient = 0.000610
Valve Value [12]	= 119.358757	Gradient = 0.001144
Valve Value [13]	= 244.360580	Gradient = 0.004005
Valve Value [14]	= 148.699722	Gradient = 0.001297
Valve Value [15]	= 140.821777	Gradient = 0.004005
Valve Value [16]	= 91.672508	Gradient = -0.001144
Valve Value [17]	= 149.167847	Gradient = 0.004005
Valve Value [18]	= 180.710190	Gradient = -0.000191
Valve Value [19]	= 196.182556	Gradient = -0.000954
Valve Value [20]	= 119.894623	Gradient = -0.000839
Valve Value [21]	= 64.322975	Gradient = 0.004005
Valve Value [22]	= 149.019211	Gradient = -0.001678
Valve Value [23]	= 50.913799	Gradient = 0.000687

## Valve ID = 5

Valve Value [0]	= 3.204294	Gradient = 0.000801
Valve Value [1]	= 39.914921	Gradient = 0.000954
Valve Value [2]	= 17.097229	Gradient = 0.004005
Valve Value [3]	= 25.337404	Gradient = 0.000839
Valve Value [4]	= 38.303997	Gradient = 0.000229
Valve Value [5]	= 64.412865	Gradient = 0.000992
Valve Value [6]	= 128.276840	Gradient = -0.000229
Valve Value [7]	= 146.409302	Gradient = 0.000191
Valve Value [8]	= 152.453690	Gradient = -0.000610
Valve Value [9]	= 100.274574	Gradient = 0.000000
Valve Value [10]	= 109.005127	Gradient = 0.000191
Valve Value [11]	= 99.331337	Gradient = 0.000267
Valve Value [12]	= 64.727875	Gradient = 0.000458
Valve Value [13]	= 61.416321	Gradient = 0.001869
Valve Value [14]	= 50.611790	Gradient = -0.000954
Valve Value [15]	= 106.512276	Gradient = -0.003662
Valve Value [16]	= 34.003265	Gradient = 0.003967
Valve Value [17]	= 62.200001	Gradient = -0.001144
Valve Value [18]	= 75.984573	Gradient = -0.000381
Valve Value [19]	= 125.800911	Gradient = -0.000114
Valve Value [20]	= 81.246986	Gradient = -0.000076
Valve Value [21]	= 22.227404	Gradient = -0.000381
Valve Value [22]	= 62.985638	Gradient = 0.003967
Valve Value [23]	= 32.362865	Gradient = -0.000229

## Tank ID = 34

Tank Level[0] = 50.000000%,	Tank Inflow = 240.000000,	Tank Outflow = 56.485531,
Tank Level[1] = 116.680000%,	Tank Inflow = 240.000000,	Tank Outflow = 88.976273,
Tank Level[2] = 171.554489%,	Tank Inflow = 240.000000,	Tank Outflow = 110.588043,
Tank Level[3] = 218.576324%,	Tank Inflow = 240.000000,	Tank Outflow = 113.979607,
Tank Level[4] = 264.365845%,	Tank Inflow = 240.000000,	Tank Outflow = 189.115768,
Tank Level[5] = 282.854675%,	Tank Inflow = 240.000000,	Tank Outflow = 204.538620,
Tank Level[6] = 295.739532%,	Tank Inflow = 240.000000,	Tank Outflow = 298.616028,
Tank Level[7] = 274.441406%,	Tank Inflow = 240.000000,	Tank Outflow = 353.728241,
Tank Level[8] = 233.118240%,	Tank Inflow = 240.000000,	Tank Outflow = 387.998413,
Tank Level[9] = 179.343002%,	Tank Inflow = 240.000000,	Tank Outflow = 323.453644,
Tank Level[10] = 149.020111%,	Tank Inflow = 240.000000,	Tank Outflow = 328.531738,
Tank Level[11] = 116.852089%,	Tank Inflow = 240.000000,	Tank Outflow = 279.284576,
Tank Level[12] = 102.578033%,	Tank Inflow = 240.000000,	Tank Outflow = 214.566757,
Tank Level[13] = 111.819199%,	Tank Inflow = 240.000000,	Tank Outflow = 227.311401,
Tank Level[14] = 116.429611%,	Tank Inflow = 240.000000,	Tank Outflow = 245.008759,
Tank Level[15] = 114.609680%,	Tank Inflow = 240.000000,	Tank Outflow = 201.035477,
Tank Level[16] = 128.767456%,	Tank Inflow = 240.000000,	Tank Outflow = 209.967178,
Tank Level[17] = 139.679871%,	Tank Inflow = 240.000000,	Tank Outflow = 232.743225,
Tank Level[18] = 142.316620%,	Tank Inflow = 240.000000,	Tank Outflow = 237.891006,
Tank Level[19] = 143.082947%,	Tank Inflow = 240.000000,	Tank Outflow = 214.169052,
Tank Level[20] = 152.468613%,	Tank Inflow = 240.000000,	Tank Outflow = 259.638214,
Tank Level[21] = 145.333084%,	Tank Inflow = 240.000000,	Tank Outflow = 123.628143,
Tank Level[22] = 187.616806%,	Tank Inflow = 240.000000,	Tank Outflow = 151.550049,
Tank Level[23] = 219.755112%,	Tank Inflow = 240.000000,	Tank Outflow = 106.599113,
Tank Level[24] = 268.226349%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

## Tank ID = Veeranageeri

Tank Level[0] = 51.855747%,	Tank Inflow = 2.369735,	Tank Outflow = 5.625000,
Tank Level[1] = 49.511665%,	Tank Inflow = 11.758901,	Tank Outflow = 5.625000,
Tank Level[2] = 53.928623%,	Tank Inflow = 3.648457,	Tank Outflow = 5.625000,
Tank Level[3] = 52.505333%,	Tank Inflow = 16.123434,	Tank Outflow = 5.625000,
Tank Level[4] = 60.065155%,	Tank Inflow = 23.214184,	Tank Outflow = 11.250000,
Tank Level[5] = 68.680450%,	Tank Inflow = 11.231771,	Tank Outflow = 28.125000,
Tank Level[6] = 56.515797%,	Tank Inflow = 45.018684,	Tank Outflow = 56.250000,
Tank Level[7] = 48.428238%,	Tank Inflow = 67.230881,	Tank Outflow = 70.312500,
Tank Level[8] = 46.209194%,	Tank Inflow = 58.775383,	Tank Outflow = 70.312500,
Tank Level[9] = 37.901428%,	Tank Inflow = 61.098930,	Tank Outflow = 56.250000,
Tank Level[10] = 41.393097%,	Tank Inflow = 39.729744,	Tank Outflow = 28.125000,
Tank Level[11] = 49.749557%,	Tank Inflow = 18.036322,	Tank Outflow = 28.125000,
Tank Level[12] = 42.484798%,	Tank Inflow = 18.857162,	Tank Outflow = 22.500000,
Tank Level[13] = 39.861629%,	Tank Inflow = 31.665276,	Tank Outflow = 22.500000,
Tank Level[14] = 46.461456%,	Tank Inflow = 53.453320,	Tank Outflow = 28.125000,
Tank Level[15] = 64.700134%,	Tank Inflow = 20.585497,	Tank Outflow = 16.875000,
Tank Level[16] = 67.372017%,	Tank Inflow = -6.647573,	Tank Outflow = 22.500000,
Tank Level[17] = 46.383141%,	Tank Inflow = 32.064766,	Tank Outflow = 28.125000,
Tank Level[18] = 49.220123%,	Tank Inflow = 51.250431,	Tank Outflow = 42.187500,
Tank Level[19] = 55.746254%,	Tank Inflow = 31.559164,	Tank Outflow = 42.187500,
Tank Level[20] = 48.092892%,	Tank Inflow = 12.677375,	Tank Outflow = 28.125000,
Tank Level[21] = 36.969212%,	Tank Inflow = 28.707390,	Tank Outflow = 22.500000,
Tank Level[22] = 41.439091%,	Tank Inflow = 28.705790,	Tank Outflow = 16.875000,
Tank Level[23] = 49.958328%,	Tank Inflow = 12.297979,	Tank Outflow = 11.250000,
Tank Level[24] = 50.712963%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

## Tank ID = NR mohalla2

Tank Level[0] = 54.263428%,	Tank Inflow = 0.000010,	Tank Outflow = 2.879999,
Tank Level[1] = 50.134796%,	Tank Inflow = 1.891617,	Tank Outflow = 2.880129,
Tank Level[2] = 48.717705%,	Tank Inflow = 2.367163,	Tank Outflow = 2.880128,
Tank Level[3] = 47.982338%,	Tank Inflow = 5.658322,	Tank Outflow = 2.879999,
Tank Level[4] = 51.965225%,	Tank Inflow = 10.556946,	Tank Outflow = 5.759999,
Tank Level[5] = 58.841938%,	Tank Inflow = 6.697100,	Tank Outflow = 14.400130,
Tank Level[6] = 47.799187%,	Tank Inflow = 26.091532,	Tank Outflow = 28.799995,
Tank Level[7] = 43.916439%,	Tank Inflow = 38.384209,	Tank Outflow = 36.000004,
Tank Level[8] = 47.334343%,	Tank Inflow = 33.438660,	Tank Outflow = 36.000130,
Tank Level[9] = 43.662319%,	Tank Inflow = 31.430840,	Tank Outflow = 28.800003,
Tank Level[10] = 47.433777%,	Tank Inflow = 10.577210,	Tank Outflow = 14.400130,

Tank Level[11] = 41.953396%,	Tank Inflow = 14.592095,	Tank Outflow = 14.400130,
Tank Level[12] = 42.228588%,	Tank Inflow = 23.116276,	Tank Outflow = 11.520129,
Tank Level[13] = 58.852352%,	Tank Inflow = 11.840117,	Tank Outflow = 11.520000,
Tank Level[14] = 59.311256%,	Tank Inflow = 4.882584,	Tank Outflow = 14.400003,
Tank Level[15] = 45.667473%,	Tank Inflow = 5.382871,	Tank Outflow = 8.640131,
Tank Level[16] = 40.997997%,	Tank Inflow = 15.866625,	Tank Outflow = 11.520131,
Tank Level[17] = 47.228954%,	Tank Inflow = 16.356550,	Tank Outflow = 14.400130,
Tank Level[18] = 50.033596%,	Tank Inflow = 17.743374,	Tank Outflow = 21.600130,
Tank Level[19] = 44.504711%,	Tank Inflow = 24.764341,	Tank Outflow = 21.600130,
Tank Level[20] = 49.040791%,	Tank Inflow = 22.259056,	Tank Outflow = 14.400130,
Tank Level[21] = 60.307026%,	Tank Inflow = 0.000006,	Tank Outflow = 11.520129,
Tank Level[22] = 43.792248%,	Tank Inflow = 12.279666,	Tank Outflow = 8.640131,
Tank Level[23] = 49.009735%,	Tank Inflow = 9.480860,	Tank Outflow = 5.760129,
Tank Level[24] = 54.343624%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

Tank ID = NR\_Mohalla1

Tank Level[0] = 53.257778%,	Tank Inflow = 3.204321,	Tank Outflow = 11.394000,
Tank Level[1] = 50.282055%,	Tank Inflow = 38.019978,	Tank Outflow = 11.394000,
Tank Level[2] = 59.956608%,	Tank Inflow = 11.071160,	Tank Outflow = 11.394000,
Tank Level[3] = 59.839306%,	Tank Inflow = 19.674582,	Tank Outflow = 11.394000,
Tank Level[4] = 62.848057%,	Tank Inflow = 27.746441,	Tank Outflow = 22.788000,
Tank Level[5] = 64.649712%,	Tank Inflow = 57.715553,	Tank Outflow = 56.970001,
Tank Level[6] = 64.920609%,	Tank Inflow = 102.185471,	Tank Outflow = 113.940002,
Tank Level[7] = 60.649593%,	Tank Inflow = 108.023239,	Tank Outflow = 142.425003,
Tank Level[8] = 48.149704%,	Tank Inflow = 119.014847,	Tank Outflow = 142.425003,
Tank Level[9] = 39.643616%,	Tank Inflow = 68.841484,	Tank Outflow = 113.940002,
Tank Level[10] = 23.257063%,	Tank Inflow = 98.427841,	Tank Outflow = 56.970001,
Tank Level[11] = 38.320774%,	Tank Inflow = 84.738647,	Tank Outflow = 56.970001,
Tank Level[12] = 48.410522%,	Tank Inflow = 41.603703,	Tank Outflow = 45.576000,
Tank Level[13] = 46.967186%,	Tank Inflow = 49.575500,	Tank Outflow = 45.576000,
Tank Level[14] = 48.420406%,	Tank Inflow = 45.729248,	Tank Outflow = 56.970001,
Tank Level[15] = 44.336075%,	Tank Inflow = 101.129265,	Tank Outflow = 34.181999,
Tank Level[16] = 68.661377%,	Tank Inflow = 18.046589,	Tank Outflow = 45.576000,
Tank Level[17] = 58.658558%,	Tank Inflow = 45.843487,	Tank Outflow = 56.970001,
Tank Level[18] = 54.615730%,	Tank Inflow = 58.241341,	Tank Outflow = 85.455002,
Tank Level[19] = 44.727646%,	Tank Inflow = 101.032478,	Tank Outflow = 85.455002,
Tank Level[20] = 50.387726%,	Tank Inflow = 58.983597,	Tank Outflow = 56.970001,
Tank Level[21] = 51.119366%,	Tank Inflow = 22.227554,	Tank Outflow = 45.576000,
Tank Level[22] = 42.635700%,	Tank Inflow = 50.051506,	Tank Outflow = 34.181999,
Tank Level[23] = 48.401886%,	Tank Inflow = 22.882092,	Tank Outflow = 22.788000,
Tank Level[24] = 48.436073%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

Tank ID = Rajiv\_nagar\_II

Tank Level[0] = 49.438320%,	Tank Inflow = 50.911446,	Tank Outflow = 15.966000,
Tank Level[1] = 57.965237%,	Tank Inflow = -0.002172,	Tank Outflow = 15.966128,
Tank Level[2] = 54.068863%,	Tank Inflow = 81.529289,	Tank Outflow = 15.966128,
Tank Level[3] = 70.066704%,	Tank Inflow = 55.658115,	Tank Outflow = 15.966000,
Tank Level[4] = 79.751839%,	Tank Inflow = 98.933968,	Tank Outflow = 31.931999,
Tank Level[5] = 96.100754%,	Tank Inflow = 88.086418,	Tank Outflow = 79.830132,
Tank Level[6] = 98.115341%,	Tank Inflow = 89.652748,	Tank Outflow = 159.660004,
Tank Level[7] = 81.033112%,	Tank Inflow = 89.628807,	Tank Outflow = 199.574997,
Tank Level[8] = 54.205524%,	Tank Inflow = 96.755730,	Tank Outflow = 199.575119,
Tank Level[9] = 29.116919%,	Tank Inflow = 69.684227,	Tank Outflow = 159.660004,
Tank Level[10] = 7.162239%,	Tank Inflow = 148.319489,	Tank Outflow = 79.830132,
Tank Level[11] = 23.874092%,	Tank Inflow = 148.763153,	Tank Outflow = 79.830132,
Tank Level[12] = 40.694202%,	Tank Inflow = 95.209236,	Tank Outflow = 63.864128,
Tank Level[13] = 48.342617%,	Tank Inflow = 37.632320,	Tank Outflow = 63.863998,
Tank Level[14] = 41.941914%,	Tank Inflow = 96.308815,	Tank Outflow = 79.830002,
Tank Level[15] = 45.962852%,	Tank Inflow = 70.706352,	Tank Outflow = 47.898129,
Tank Level[16] = 51.528210%,	Tank Inflow = 118.294655,	Tank Outflow = 63.864128,
Tank Level[17] = 64.809616%,	Tank Inflow = 129.870377,	Tank Outflow = 79.830132,
Tank Level[18] = 77.019760%,	Tank Inflow = 57.180622,	Tank Outflow = 119.745132,
Tank Level[19] = 61.753616%,	Tank Inflow = 17.986397,	Tank Outflow = 119.745132,
Tank Level[20] = 36.923817%,	Tank Inflow = 139.743607,	Tank Outflow = 79.830132,
Tank Level[21] = 51.543098%,	Tank Inflow = 60.119373,	Tank Outflow = 63.864128,
Tank Level[22] = 50.629353%,	Tank Inflow = 2.530722,	Tank Outflow = 47.898129,
Tank Level[23] = 39.559410%,	Tank Inflow = 55.685089,	Tank Outflow = 31.932127,
Tank Level[24] = 45.355289%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

Tank ID = Tippu\_Park

Tank Level[0] = 50.530083%,	Tank Inflow = 0.000042,	Tank Outflow = 7.469999,
Tank Level[1] = 47.815876%,	Tank Inflow = 37.307636,	Tank Outflow = 7.470129,
Tank Level[2] = 58.657337%,	Tank Inflow = 11.971561,	Tank Outflow = 7.470129,
Tank Level[3] = 60.292934%,	Tank Inflow = 16.864983,	Tank Outflow = 7.469999,
Tank Level[4] = 63.706604%,	Tank Inflow = 28.663904,	Tank Outflow = 14.940000,
Tank Level[5] = 68.693184%,	Tank Inflow = 40.807674,	Tank Outflow = 37.350128,
Tank Level[6] = 69.949486%,	Tank Inflow = 35.667892,	Tank Outflow = 74.699997,
Tank Level[7] = 55.767166%,	Tank Inflow = 50.460907,	Tank Outflow = 93.375000,
Tank Level[8] = 40.174320%,	Tank Inflow = 80.013687,	Tank Outflow = 93.375130,
Tank Level[9] = 35.319439%,	Tank Inflow = 92.398453,	Tank Outflow = 74.699997,
Tank Level[10] = 41.750175%,	Tank Inflow = 31.477198,	Tank Outflow = 37.350128,
Tank Level[11] = 39.616245%,	Tank Inflow = 13.154092,	Tank Outflow = 37.350128,
Tank Level[12] = 30.824612%,	Tank Inflow = 35.780697,	Tank Outflow = 29.880129,
Tank Level[13] = 32.968586%,	Tank Inflow = 96.598099,	Tank Outflow = 29.879999,
Tank Level[14] = 57.210617%,	Tank Inflow = 44.634609,	Tank Outflow = 37.349998,
Tank Level[15] = 59.857483%,	Tank Inflow = 3.231178,	Tank Outflow = 22.410130,
Tank Level[16] = 52.888805%,	Tank Inflow = 64.406799,	Tank Outflow = 29.880129,
Tank Level[17] = 65.434074%,	Tank Inflow = 8.608129,	Tank Outflow = 37.350128,
Tank Level[18] = 54.990669%,	Tank Inflow = 53.475086,	Tank Outflow = 56.025131,
Tank Level[19] = 54.064106%,	Tank Inflow = 38.826488,	Tank Outflow = 56.025131,
Tank Level[20] = 47.814980%,	Tank Inflow = 25.974855,	Tank Outflow = 37.350128,
Tank Level[21] = 43.681774%,	Tank Inflow = 12.574129,	Tank Outflow = 29.880129,
Tank Level[22] = 37.393631%,	Tank Inflow = 57.982407,	Tank Outflow = 22.410128,
Tank Level[23] = 50.318829%,	Tank Inflow = 6.252964,	Tank Outflow = 14.940128,
Tank Level[24] = 47.162346%,	Tank Inflow = 0.000000,	Tank Outflow = 0.000000,

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