```
./main
Test case: 1
121 396 -51 854
-141 -167 -263 2
-102 847 -109 397
-13 -124 -83 18
---------------
Test case: 2
6    13   21   33
-7   -20  -20  -8
15   85   -61  -41
-4   -14  -61  449
---------------
Test case: 3
5    6    5    1
21   13   4    -12
13   7    91   101
-25  -27  28   48
---------------
Test case: 4
5    6    5    8    17   29   76   42
21   13   4    -9   4    -16  -26  -19
13   11   95   102  86   -15  38   48
1    1    52   49   -47  1    -2   0
13   3    -13  -2   2    1    52   50
1    -1   50   51   -46  26   21   24
19   13   -3   2    20   31   82   38
-22  -24  25   47   -40  -14  -137 -124
---------------
Test case: 5
6    13   21   29   -5   -21  32   439
-7   -20  -20  -13  13   48   -118 -101
15   83   -63  -48  -55  -14  -60  449
-17  -29  -54  443  -47  15   -102 -100
15   83   -113 -96  -99  -8   -55  450
-17  -27  -72  445  -48  12   -115 -112
12   82   -114 -94  -110 -31  42   438
-7   13   -64  447  -56  103  -75  -62
---------------
Test case: 6
2    2    3    -1
3    13   3    5
9    -7   11   49
2    11   50   -49
---------------
Test case: 7
30   -5   15   1    -34
40   0    2    4    -1
52   4    2    -48  5
33   13   -28  52   -5
77   -41  -24  2    27
---------------
Test case: 8
85   15   92   112  -51
78   37   26   92   157
131  84   164  -139 -45
-10  87   -96  243  199
316  45   -8   -53  126
---------------
Test case: 9
-1   -4   -6   -13
0    13   3    5
0    -37  11   46
-1   11   50   -199
---------------
Test case: 10
5    11   18   25   -6   -21  22   389
-8   -20  -20  -13  10   41   -118 -102
12   73   -63  -49  -56  -14  -60  399
-18  -29  -56  393  -48  13   -102 -100
12   73   -113 -97  -100 -8   -55  400
-18  -27  -72  395  -49  9    -115 -112
9    72   -114 -95  -111 -31  30   388
-8   10   -64  397  -57  90   -75  -62
---------------
chrislewis@ChristohersMini problem2 %
```