[redacted]

[redacted]

[redacted]

Input

The first line of input indicates number of the test cases, T, where T ≤ 50. For every case there is one line of input which contains 22 space separated integers. Each integer represents the performance index, Pi, of each of 22 players. Each performance index is an integer between 1 and 1000000. So, we have the restriction 1 ≤ Pi ≤ 1000000.

Output

For each test case divide the 22 players in to two teams such that their total performance indices are as close as possible. Then print the difference between the two sums on each line for each test case.

Sample Input

3
100 109 121 100 99 96 99 75 102 110 101 112 96 96 91 64 112 113 139 121 80 133

550525 699235 355023 838444 697200 610547 753208 465348 748062 177696 521990 19899 583836 334620 504209 157498 103221 312702 742677 708756 14381 216701

100 200 300 400 500 600 700 800 900 1000 1100 10000 20000 30000 40000 50000 60000 70000 80000 90000 10000 11000

Sample Output

1
2
4400

Problem Setter: Md Imrul Hasan