## Problem A. G Game

Time limit 1000 ms Mem limit 262144 kB Windows OS

Abdulrahman and Hazem are playing a game. They have an array a of n integer numbers. Abdulrahman will choose p indices  $x_1, x_2, \ldots x_p$  and Hazem will choose q indices  $y_1, y_2, \ldots y_q$ where no index is chosen by both players. I.e.  $x_i 
eq y_j : 1 \leq i \leq p, 1 \leq j \leq q$ .

After choosing their indices, let us denote the score of the players as the sum of the integers he chose from the array:

- Abdulrahman's score as  $S_a=\sum_{i=1}^{i=p}a_{x_i}$  Hazem's score as  $S_b=\sum_{i=1}^{i=q}a_{y_i}$

Now given P and Q find the maximum value for  $S_a - S_b$  if Abdulrahman cannot choose more than P index and Hazem cannot choose more than Q index ( $p \leq P, q \leq Q$ )

## Input

The first line of input contains one integer T ( $1 \le T \le 10^5$ ) denoting the number of testcases.

The first line of each testcase contains three space-seperated integers N ( $1 \le n \le 10^5$ ), P and Q $(0 \le P, Q \le n)$ 

The second line of each testcase contains n space–seperated integers  $a_1,a_2,...,a_N$  ( $-10^9 \leq a_i \leq$  $10^{9}$ )

Its guaranteed that the sum of n over all testcases is less than or equal to  $10^5$ .

## Output

Print the maximum value for  $S_a-S_b$  Abdulrahman and Hazem can obtain.

## Sample 1

Input	Output
3 3 1 1 -2 0 2 3 1 2 6 3 -4 5 0 2 10 -6 -9 8 -7	4 10 16