

## 6066 Alice and Bob

These days, Alice came up with a new game. In this game, there are some balls placed in a line which are numbered from  $L$  to  $R$  from left to right. It is known that  $N$  of the balls are white, while others are black. Alice will select  $aCount$  consecutive balls, after that, Bob will remove  $bCount$  balls from the balls that Alice has selected. Bob could remove those  $bCount$  balls one by one, for each ball he removes, he can choose whether to select the left most one or right most one.

The goal of Alice is to maximize the number of white balls after Bob's operation, and Bob's goal is to minimize this number.

So, what is the maximum number of white balls after Bob's operation?

### Input

There are multiple test cases, for each case:

- The first line is an integer  $N$ . ( $1 \leq N \leq 100,000$ )
- The second line contains two integers  $L, R$ . ( $0 \leq L \leq R \leq 2^{63} - 1$ )
- The third line contains two integers  $aCount, bCount$ .
- The fourth line contains  $N$  integers  $p[0], p[1], \dots, p[N-1]$ , denoting the positions of the white balls.

It is guaranteed that  $p[i-1] < p[i]$  ( $1 \leq i \leq N-1$ ),  $L \leq p[0], p[N-1] \leq R$ ,  $0 \leq aCount \leq R-L+1$ ,  $0 \leq bCount \leq aCount$ .

### Output

For each test case, output one line representing the maximum number.

### Sample Input

```
2
5 9
3 1
5 8
3
6 10
5 0
6 8
10
```

### Sample Output

```
1
3
```