

## Strong

Input file:            **standard input**  
Output file:           **standard output**  
Time limit:            1 second  
Memory limit:         512 megabytes

Y thinks an array is strong if and only if the sum of all numbers in it is no bigger than  $r$  and no less than  $l$ .

He obtained an array containing  $n$  integers, and he wants to select as many strong blocks as possible from it. A block of an array is a continuous part of the array. The blocks selected cannot overlap.

How many strong blocks he can select at most?

### Input

The first line contains an integer  $T(1 \leq T \leq 5 \times 10^3)$ , the number of test cases.

For each test case:

The first line contains three integers  $n, l, r(1 \leq n \leq 5 \times 10^3, -10^9 \leq l \leq r \leq 10^9)$ , the length of the array, and the lower and the upper limit on the sum of a strong array.

Then follow a line containing  $n$  integers  $a_1, a_2, \dots, a_n(|a_i| \leq 10^9)$ , the elements in the array.

It's guaranteed that the sum of  $n$  of all test cases doesn't exceed  $5 \times 10^3$ .

### Output

For each test case, print a single line containing the answer.

### Example

standard input	standard output
1 10 2 10 -1 2 -3 4 -5 6 -7 8 -9 10	5