Problem C. Cybernetic Crescent

Time limit: 1 second
Memory limit: 1024 mebibytes

You are given a sequence $A = [A_1, A_2, \ldots, A_N]$ of N positive integers, along with two positive integers X and Y.

You may perform the following operation any number of times, including zero.

- Suppose the current sequence is $[B_1, B_2, \ldots, B_M]$. Choose an index i satisfying $1 \leq i < M$ and $B_i + B_{i+1} \geq X$.
- Then, replace the two adjacent elements B_i and B_{i+1} with a single element whose value is Y. In other words, the sequence becomes $[B_1, \ldots, B_{i-1}, Y, B_{i+2}, \ldots, B_M]$.

The length of the sequence decreases by 1 after each operation.

Find the maximum number of operations that can be performed.

Input

Each test contains multiple test cases.

The first line contains an integer t — the number of test cases.

Each test case is described as follows.

The first line contains three integers N, X, and Y.

The second line contains N integers $A_1, A_2, \ldots, A_N$.

Output

For each test case, print an integer on a separate line — the maximum number of operations that can be performed.

Constraints

- $1 \leq t \leq 2.5 \cdot 10^5$
- $2 \leq N \leq 5 \cdot 10^5$
- $1 \leq X, Y \leq 10^9$
- $1 \leq A_i \leq 10^9$ $(1 \leq i \leq N)$
- The sum of N over all test cases does not exceed $5 \cdot 10^5$.

Example

standard input	standard output
4 5 5 3 3 1 4 1 5 4 3 1 2 1 2 2 5 10 6 3 7 3 7 3 7 7 4 4 3 3 1 3 2 5	4 3 3 4