Problem F
vs Hydra

Time Limit: 2 seconds

A Hydra with N heads has appeared. The i-th head initially has H_i health points.

You may perform attacks any number of times, including zero. In each attack, choose one of the following $N + 1$ types:

- Attack i ($1 \leq i \leq N$): Decrease the health points of the i-th head by X.
- Attack $N + 1$: Decrease the health points of every head by Y.

Find the minimum number of attacks required to make the health points of every head at most 0.

Input

The input contains one or more test cases. The first line of the input contains an integer T ($1 \leq T \leq 100$), which is the number of test cases. The descriptions of the T test cases follow, each in the following format.

$N\ X\ Y$
$H_1\ H_2\ \ldots\ H_N$

For each test case, the first line contains three integers N, X, and Y ($1 \leq N \leq 3 \times 10^5$, $1 \leq X, Y \leq 10^{18}$), representing the number of heads, the damage dealt by Attack i ($1 \leq i \leq N$), and the damage dealt by Attack $N + 1$, respectively.

The second line contains N integers $H_1, H_2, \ldots, H_N$ ($1 \leq H_i \leq 10^{18}$), where H_i represents the initial health points of the i-th head.

The sum of N over all test cases does not exceed 3×10^5.

Output

For each test case, print a single integer representing the minimum number of attacks required to make the health points of every head at most 0.

Sample Input	Sample Output
2 3 5 2 12 6 17 1 998244353 1000000007 1000000007	7 1