

Battle Fury

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

A hero named Magina is battling the group of n monsters with the help of the legendary axe known as Battle Fury. Each monster has a_i hit-points. Every hit Magina lowers the health of the monster which was directly hit by p hit-points, while the health of all other monsters lowers by q hit-points. If the monster's hit-points become non-positive, this monster dies. Every hit Magina wants to choose the target properly because he's going to kill all monsters in a minimal number of hits. You should determine this number.

Input

The first line contains three integers separated by spaces: n , p and q ($1 \leq n \leq 200000$, $1 \leq q \leq p \leq 109$)—the number of monsters, the damage on the target and the damage on the others.

The second line contains n integers separated by spaces: a_i ($1 \leq a_i \leq 109$)— monsters' hit-points.

Output

Output the only integer— minimal number of hits that Magina needs to kill all monsters.

Sample test(s)

Input	Output
2 3 2 5 5	2
3 5 3 17 13 14	5