

The apartments are numbered from 1 to 50. Some HP houses out of these 50 are occupied by Mumbai Police.

Abhishek has just stolen Preeti's bag and is looking for a apartment to hide in.

Preeti uses superfast 5G Internet and sends the message to all the police that a thief named Abhishek has just stolen her bag and ran into some apartment.

Abhishek knows that the policemen can run at a maximum speed of x apartments per minute in a straight line and they will search for a maximum of y minutes. Abhishek wants to know how many apartments are safe for him to escape from the police. Help him in getting this information.

Input Format

First line contains T , the number of test cases to follow.

First line of each test case contains 3 space separated integers: HP , x and y .

For each test case, the second line contains HP space separated integers which represent the house numbers where the policemen are residing.

Constraints

- $1 \leq T \leq 10^4$
- $1 \leq x, y, HP \leq 10$

Output Format

For each test case, output a single line containing the number of apartments which are safe to hide from the policemen.