

Kill the enemy heroes

You are about to face n enemies. You are given two arrays D and A . In the process of killing the i th enemy, your health decreases by $D[i]$ and your armor decreases by $A[i]$. Initially you have H health and J armor. If your health becomes 0 or armor becomes 0, you die. You have to kill the maximum number of heroes without dying.

Find the maximum number of heroes you can kill while surviving.

Input:

The first line consists of an integer t , the number of test cases. For each test case, the first line consists of 3 integers n , H and J . The next line consists of n integers representing the array D . The next line consists of n integers representing the array A .

Output:

For each test case, find the maximum number of heroes you can kill.

Input Constraints:

$$1 \leq t \leq 50$$

$$1 \leq n \leq 50$$

$$1 \leq H \leq 500$$

$$1 \leq J \leq 500$$

$$0 \leq D[i] \leq 500$$

$$0 \leq A[i] \leq 500$$

Sample Input:

2

3 100 100

50 50 50

50 50 50

5 100 100

50 29 50 30 40

50 54 50 20 25

Sample Output:

1

3