B.Palace loc?

SHOOSHOOD decides to build a palace. In this country, the average temperature of a point at an elevation of x meters is T−X×0.006 degrees Celsius.

There are *N* places proposed for the place. The elevation of Place i is Hi meters.

Among them, Prince Saeed orders you to select the place whose average temperature is the closest to *A* degrees Celsius, and build the palace there.

Print the index of the place where the palace should be built.

It is guaranteed that the solution is unique.

Constraints

- *1≤N≤1000*
- *0≤T≤50*
- *−60≤A≤T*
- *0≤Hi≤10^5*
- All values in input are integers.
- The solution is unique.

Input

Input is given from Standard Input in the following format:

N

$T\ A$

$H_1\ H_2\ \ldots\ H_N$

Output

Print the index of the place where the palace should be built.

Sample 1:

Input	Output
2 12 5 1000 2000	1

- The average temperature of Place 1 is 12−1000×0.006=6 degrees Celsius.
- The average temperature of Place 2 is 12−2000×0.006=0 degrees Celsius.

Thus, the palace should be built at Place 1.

Sample 2:

Input	Output
3 21 -11 81234 94124 52141	3