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A strange lift

Time Limit: 2000/1000 MS (Java/Others) Memory Limit: 65536/32768 K (Java/Others)
Total Submission(s): 37557 Accepted Submission(s): 13286

Problem Description

There is a strange lift. The lift can stop can at every floor as you want, and there is a number $Ki(0 \le Ki \le N)$ on every floor. The lift have just two buttons: up and down. When you at floor i, if you press the button "UP", you will go up Ki floor, i.e., you will go to the i+Ki th floor, as the same, if you press the button "DOWN", you will go down Ki floor, i.e., you will go to the i-Ki th floor. Of course, the lift can't go up high than Ki and can't go down lower than 1. For example, there is a buliding with 5 floors, and Ki and

Here comes the problem: when you are on floor A, and you want to go to floor B, how many times at least he has to press the button "UP" or "DOWN"?

Input

The input consists of several test cases., Each test case contains two lines.

The first line contains three integers N ,A,B($1 \le N$,A,B ≤ 200) which describe above,The second line consist N integers k1,k2,....kn. A single 0 indicate the end of the input.

Output

For each case of the input output a interger, the least times you have to press the button when you on floor A, and you want to go to floor B.If you can't reach floor B, printf "-1".

Sample Input

5 1 5 3 3 1 2 5

Sample Output

3

Recommend

8600

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Hangzhou Dianzi University Online Judge 3.0
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Total 0.000000(s) query 1, Server time: 2019-07-17 19:16:47, Gzip disabled

Administration

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