

SAC '22 Code Challenge 5 P1 - Querying Plants

Time limit: 1.0s **Memory limit:** 256M

To compensate for the lack of plant life at SAC, Mr. DeMello has taken up gardening!

More specifically, he has N plants that each have a height, H_i , in centimetres.

Every time he waters his plants, all of them grow C centimetres taller.

Given that Mr. DeMello teaches a math course, he forgot his addition tables and asked you to calculate the new lengths of the plants after watering them twice.

Can you help Mr. DeMello?

Constraints

$$1 \leq N, H_i, C \leq 100$$

Input Specification

The first line will contain an integer, N , the number of plants Mr. DeMello cares for.

The second line will contain an integer, C , the length that the plants grow after being watered once.

The third line will contain N space-separated integers, H_i , representing the initial heights of the plants.

Output Specification

Output N integers, the new heights of the plants after being watered twice in centimetres.

Sample Input

```
5
3
1 2 3 4 5
```

Sample Output

```
7 8 9 10 11
```