

Task:

Having a good previous year, Monk is back to teach algorithms and data structures. This year he welcomes the learners with a problem which he calls "Welcome Problem". The problem gives you two arrays A and B (each array of size N) and asks to print new array C such that:

$$C[i] = A[i] + B[i]$$

$$1 \leq i \leq N$$

Now, Monk will proceed further when you solve this one. So, go on and solve it.

Input Format

First line consists of an integer N , denoting the size of A and B .

Next line consists of N space separated integers denoting the array A .

Next line consists of N space separated integers denoting the array B .

Output Format

Print N space separated integers denoting the array C .

Example 1:**Input:**

5

1 2 3 4 5

4 5 3 2 10

Output:

5 7 6 6 15