Not Cross Product

Write a program to compute the dot product of two vectors

Input format

The first line will contain a single integer n: the number of elements (dimensions) in each vector.
The next line will contain n integers separated by spaces where ith integer (0-based indexing) is the ith element of the first vector.
The next line will contain n integers separated by spaces where the ith integer (0-based indexing) is the ith element of the second vector.

Output format

A single number: dot product of the 2 vectors

Constraints

$1 <= n <= 1e5$ $-100000 <=$ each element of both vectors $<= 100000$

Sample Input 1

```
10
713    39    571    440    227    -19    -348    -88    870    -268
-510   -784  -344   516    747    -818   122     -26    131    -839
```

Sample Output 1

```
120175
```