**Sum of Products**

**Problem Description**

Two arrays of integers, both having the same size *N,* are the given. You have to write a code that finds out the sum of products such that the smallest element of the first array is multiplied to the largest element of the second array and so on. The objective is to simply minimize the *sum of products* of both the array elements.

**Input Format**

The size of both arrays, *N*

Two input arrays, *A* and *B*

**Output Format**

Sum of products, as explained above.

**Constraints**

1<= *N* <= 100

1<= array-elements <= 1000

**Sample Input**

3

4 7 2

8 6 1

**Sample Output**

47

**Explanation**

After sorting: A= [2, 4, 7] and B= [1, 6, 8]

Sum of products= 2\*8 + 4\*6 + 7\*1 = 16+24+7 = 47, which is the output.