

```

import java.util.*;
public class Main
{
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        int n;
        System.out.println("Enter size of array");
        n=sc.nextInt();
        System.out.println("Enter array elements of array1");
        int[] arr1=new int[n];
        for(int i=0;i<n;i++){
            arr1[i]=sc.nextInt();
        }
        System.out.println("Enter array elements of array2");
        int[] arr2=new int[n];
        for(int i=0;i<n;i++){
            arr2[i]=sc.nextInt();
        }

        for(int i=0;i<n;i++){
            for(int j=i+1;j<n;j++){
                if(arr1[i]>arr1[j]){
                    int temp=arr1[i];
                    arr1[i]=arr1[j];
                    arr1[j]=temp;
                }
            }
        }

        for(int i=0;i<n;i++){
            for(int j=i+1;j<n;j++){
                if(arr2[i] < arr2[j]){
                    int temp=arr2[i];
                    arr2[i]=arr2[j];
                    arr2[j]=temp;
                }
            }
        }

        int product=0;
        for(int i=0;i<n;i++){
            product=product+arr1[i]*arr2[i];
        }
        System.out.println(product);

    }
}

```