Day 49 coding Statement: Given 2 integer arrays X and Y of same size. Consider both arrays as vectors and print the minimum scalar product (Dot product) of 2 vectors.

```
Sample input 1:
4
1234
5678
Sample output 1:
60
Explanation:
(4*5 + 3*6 + 2*7 + 1*8) = 60
Sample input 2:
4
-1 -2 -3 -4
56-7-8
Sample output 2:
-17
Explanation:
(-1*-8+-2*-7+-3*6+-4*5)=-17
import java.util.Arrays;
import java.util.Scanner;
public class RatanPrajapati_day49 {
    static void swap(int arr[], int start, int end) {
       int temp = arr[start];
       arr[start] = arr[end];
       arr[end] = temp;
    public static void main(String[] args) {
       Scanner sc = new Scanner(System.in);
```

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int n = sc.nextInt();
int vec1[] = new int[n];
for (int i = 0; i < n; i++) {
    vec1[i] = sc.nextInt();
}
int vec2[] = new int[n];
for (int i = 0; i < n; i++) {
    vec2[i] = sc.nextInt();
}
Arrays.sort(vec1);
Arrays.sort(vec2);
for (int i = 0; i < n / 2; i++) {
    swap(vec2, i, n - i - 1);
}
int sum = 0;
for (int i = 0; i < n; i++) {
    sum += vec1[i] * vec2[i];
}
System.out.println(sum);
}
</pre>
```