

Easy Task

[Problem](#)

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[Discussion](#) Coming Soon

Master Fenasal is assigning his student Dabbeli an easy task.

He'll be giving two arrays A and B which are sized n and m respectively. Fenasal wants Dabbeli to find number of i, j pairs where i and j are as following:

$$1 \leq i \leq n$$
$$1 \leq j \leq m$$
$$A_i \leq B_j$$

Input Format

First line there are two integers n and m

Second line contains elements of array A

Third line contains elements of array B

Output Format

Single integer denoting the number of appropriate i, j pairs

Constraints

$1 \leq n, m \leq 200000$

$1 \leq A_i, B_i \leq 10^9$

Sample Input 1

```
3 5
3 8 5
2 3 4 5 6
```

Sample Output 1

```
6
```

C++ (GCC 9.2.0) ▼ Bright ▼

Memory Limit (kB) : 256000 Time Limit (s) : 1

```
1 #include <bits/stdc++.h>
2
3 using namespace std;
4 #define int long long
5
6 int32_t main() {
7     int n1, n2;
8
9     cin >> n1 >> n2;
10    vector<int> arr1(n1), arr2(n2);
11    for(int i = 0; i < n1; i++)
12        cin >> arr1[i];
13    for(int i = 0; i < n2; i++)
14        cin >> arr2[i];
15
16    sort(arr1.begin(), arr1.end());
17    sort(arr2.begin(), arr2.end());
18
19    int cnt = 0;
20    int i = 0;
```



```
20     int j = 0;
21     for (int i = 0; i < n1; i++) {
22         while (j < n2 && arr1[i] > arr2[j]) {
23             j++;
24         }
25         cnt += n2 - j;
26     }
27
28     cout << cnt << "\n";
29     return 0;
30 }
31
```

 Upload File

☐ Test against custom test case

Run Code

Submit

✓ [Sample Test Case 0](#)

Accepted

Input(stdin)

| | |
|---|-----------|
| 1 | 3 5 |
| 2 | 3 8 5 |
| 3 | 2 3 4 5 6 |
| | |
| | |
| | |

Output(stdin)

| | |
|---|---|
| 1 | 6 |
| 2 | |
| | |
| | |
| | |
| | |

Expected Output

| | |
|---|---|
| 1 | 6 |
| | |
| | |
| | |
| | |
| | |

