

```
1  #include <bits/stdc++.h>
2  using namespace std;
3
4  typedef long long int ll;
5
6  ll BIT[100100];
7  int n;
8
9  inline void update(ll index){
10
11     for(;index<=n;index += index &(-index))
12         BIT[index] += 1;
13 }
14 inline ll query(ll index){
15     ll ans =0;
16     for(;index>0;index -= index & (-index))
17         ans += BIT[index];
18     return ans;
19 }
20
21
22 main(){
23     vector<ll> num;
24     scanf("%d",&n);
25     ll ans = 0,aux;
26     for(int i=1;i<=n;i++){
27         scanf("%lld",&aux);
28         num.push back(aux);
29     }
30     for(int i=num.size()-1;i>=0;i--){
31         update(num[i]);
32         ans += query(num[i]-1);
33     }
34     printf("%lld\n",ans);
35 }
36
37
```