```
1: #include<iostream>
 2: #include<vector>
 3:
 4: #define 11 long long int
 5: #define rep(n) for(int i=0;i<n;i++)
 6: //(1)
 7: class BIT
 8: {
 9:
      public:
10:
        //(2)
        std::vector<ll> node;
11:
12:
        ll n_;
13:
        BIT(ll n)
14:
15:
          n_=n;
16:
          node.resize(n+1,0);
17:
        }
18:
19:
        //(3)
20:
        void add(ll i,ll x)
21:
22:
          while(i<=n )</pre>
23:
24:
             node[i]+=x;
25:
             i+=i&-i;
26:
          }
27:
        }
28:
29:
        //(4)
        11 sum(ll i)
30:
31:
32:
           11 s=0;
33:
          while(i>0)
34:
35:
             s+=node[i];
36:
             i-=i&-i;
37:
           }
38:
          return s;
39:
        }
40: };
41:
42: int main()
43: {
44:
      11 n;
45:
      std::cin>>n;
46:
      std::vector<ll> v(n);
47:
      std::vector<ll> p(n);
      BIT *bit v=new BIT(n);
48:
49:
      BIT *bit_p=new BIT(n);
50:
      11 cnt_v=0;
51:
      11 cnt_p=0;
52:
      //(5)
53:
      rep(n)
54:
55:
        int v;
56:
        std::cin>>v;
57:
        cnt v+=i-bit v->sum(v);
        bit_v->add(v,1);
58:
59:
      }
      //(6)
60:
61:
      rep(n)
62:
        int p;
63:
64:
        std::cin>>p;
65:
        cnt_p+=i-bit_p->sum(p);
66:
        bit_p->add(p,1);
67:
68:
      std::cout<<cnt_v-cnt_p<<std::endl;</pre>
69:
      return 0;
70: }
```