// 数状数组

#define mem(a) memset(a, false, sizeof(a))

#define maxn 500005

ll tree[maxn], n;

struct Num{

ll val, pos;

bool operator < (const Num& x) const{

return val < x.val;}

}a[maxn];

//lowbit(k)=lowbit(1010)=0010(2进制)

void add(ll k, ll num){//将第k的数加num

while(k <= n){

tree[k] += num;

k += k&-k;

}

}

ll query(ll k) {//查询1~k的区间和

ll sum = 0;

while(k){

sum += tree[k];

k -= k&-k;

}

return sum;

}

mem(tree);

rep(i, 1, n)

cin >> a[i].val, a[i].pos = i;

sort(a+1, a+n+1);

//枚举每个数，然后查询这个数前面的区间值的总和

ll ans = 0;

rep(i,1,n)//对的

add(a[i].pos, 1), ans += query(n) - query(a[i].pos);

9 1 0 5 4

1 2 3 4 5