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#include <bits/stdc++.h>

using namespace std;

struct QUERY{
    int l,int r,int idx;

    bool operator <(QUEY othe) const {
        pair<int,int> p={l/bsize,r};
        pair<int,int> op={other.l/bsize,other.r};
        return p<op;
    }
};

QUERY Q[maxm];

PMAP s;
int kq=0;

void add(int x) {
    if (t[x]!=s.time) {
        t[x]=time; nho[x]=1;
        ++kq;
    } else ++nho[x];
}

void del(int x) {
    --nho[x];
    if (nho[x]==0) {
        --kq;
        t[x]=0;
    }
}

int get_answer() {
    return kq;
}

int main() {
    cin >> n;
    s.init(n);

```

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for(int i=1;i<=n;++i) cin >> a[i];
bsize=sqrt(n);
for(int i=1;i<=m;++i) {
    cin >> Q[i].l>>Q[i].r;
    Q[i].idx=i;
}
sort(Q+1,Q+m+1);
int cur_l=1, cur_r=0;
s.reset();
for(int i=1;i<=m;++i) {
    QUERY q=Q[i];
    while (cur_l>q.l) add(--cur_l);
    while (cur_r<q.r) add(++cur_r);
    while (cur_l<q.l) del(cur_l++);
    while (cur_r>q.r) del(cur_r--);

    ans[q.idx]=get_answer();
}
}

```