icpc6139.cpp Page 1

```
#include <bits/stdc++.h>
using namespace std;
vector<int> zeros,negat,s;
int n,k,a,v,ans1,ans2,aux1,aux2,b;
char op;
void update(int pos,int value){
         for(;pos<=n;pos+=(pos&-pos)){</pre>
                  if (value<0) negat [pos]++;</pre>
                  if(value == 0) zeros[pos]++;
         }
}
void rem(int k){
         int val = s[k];
         for (; k \le n; k = (k - k))
                  if(val<0)negat[k]--;</pre>
                  if (val==0) zeros[k]--;
}
void query(int k,int &a,int &b){
         a=0;
         b=0;
         for (; k>0; k-=(k\&-k)) {
                  a+=negat[k];
                  b+=zeros[k];
         }
}
int main(){
         while(cin >> n >> k){
                  zeros.assign(n+1,0);
                  negat = zeros;
                  s = zeros;
                  for(int i=1;i<=n;i++){
                           cin >> v;
                           update(i,v);
                           s[i] = v;
                  while (k--) {
                           cin >> op >> a >> b;
if(op == 'C'){
                                    rem(a);
                                    update(a,b);
                                    s[a]=b;
                           else{
                                    query(b, ans1, ans2);
                                    query(a-1,aux1,aux2);
//cerr << ans1 << "." << aux1 << "." << ans2 << "."</pre>
<< aux2 << endl;
                                    ans1-=aux1;ans2-=aux2;
                                    if(ans2>0)cout << "0";
                                    else if(ans1&1)cout << "-";
                                    else cout << "+";
                           }
                  cout << endl;
         return 0;
}
```