```
//seg tree
#include <iostream>
using namespace std;
const int N = 1e5 + 2;
int a[N];
int n,q,l,t,r;
int tree[4*N];
int mrg(int x, int y){
  return max(x,y);
}
void build(int id=0,int ns = 0, int ne = n-1){
  if(ns==ne){
    tree[id] = a[ns];
    return;
  int I = 2*id+1;
                              Evaluation only.
  int r = I+1;
  int md = ns+(ne-ns)/2;
                                       lides for .NET Standard 2.0 22.12
  puild(), ns, nd); / puild(r, md+1, ne);
int query(int qs, int qe, int id=0, int ns=0, int ne=n-1){
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  if(ns>qe | qs>ne){
    return -1e7; ///infnity
  if(qs<=ns && qe>=ne){
    return tree[id];
  int I = 2*id+1;
  int r = 1+1;
  int md = ns+(ne-ns)/2;
  return mrg(query(qs, qe, I, ns, md), query(qs, qe,r, md+1,ne));
}
void upd(int pos, int val, int id=0, int ns=0,int ne=n-1){
  if(ns>pos || pos>ne){
    return;
  if(ns==ne){
    tree[id]=val;
```

return;

}

```
upd(pos, val,l, ns, md);
  upd(pos, val, r, md+1, ne);
  tree[id] = mrg(tree[l],tree[r]);
}
int main()
  cin >> n >> q;
  for(int i=0;i< n;i++){
    cin >> a[i];
  build();
  while(q--){
    cin >> t >> l >> r;
    switch (t){
    case 1: // upd I=x, r=y;
                         Evaluation only.
      upd(--1,r);
      break;
                       se Slides for .NET Standard 2.0 22.12
  }
  return 0;
}
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```

int I = 2*id+1; int r = I+1;

int md = ns+(ne-ns)/2;