```
const int MAXN = 110;
 1
2
     int tree[4*MAXN];
 3
     int v[MAXN];
 4
 5
     void build(int idx, int l, int r) {
 6
7
          if(l==r) {
              tree[idx] = v[l];
 8
          else {
 9
              int m = (l+r)/2;
build(2*idx,l,m);
10
11
              build(2*idx+1,m+1,r);
12
13
              tree[idx] = tree[2*idx] + tree[2*idx+1];
14
          }
15
     }
16
17
     void update(int p, int val, int idx, int l, int r) {
18
          if(l==r) {
19
              tree[idx] = val;
20
          else {
21
22
              int m = (l+r)/2;
23
              if(p \ge 1 \& p \le m) update(p, val, 2*idx, l, m);
24
25
26
27
29
30
31
33
34
35
36
              else update(p,val,2*idx+1,m+1,r);
              tree[idx] = tree[2*idx] + tree[2*idx+1];
          }
     }
     int query(int px, int py, int idx, int l, int r) {
          if(py<l || px>r) {
              return 0;
          if(l>=px && r<=py) {
              return tree[idx];
          int m = (l+r)/2;
37
          int p1 = query(px,py,2*idx,l,m);
38
          int p2 = query(px,py,2*idx+1,m+1,r);
39
          return p1+p2;
40
     }
41
```