```
1
      #include<stdio.h>
 2
       #include<string.h>
 3
 4
      #define MAX 212345
 5
       int n, ft[MAX];
 6
 7
 8
       int rsq(int i) {
 9
         int ret;
10
         for (ret = 0 ; i > 0; i -= (i \& -i)) ret += ft[i];
11
         return ret;
12
13
      void update(int i, int v) {
14
15
         for (; i <= n; i += (i & -i)) {
16
            ft[i] += v;
17
         }}
18
       int main(void) {
19
20
         int caso, i, resist[MAX], x, y, r, flag, first = 1;
21
         char c, cl;
         for (caso = 1; scanf("%d", &n), n; caso++) {
22
23
            memset(ft, 0, sizeof(ft));
            for (i = 1; i <= n; i++) {
    scanf("%d", &resist[i]);
    update(i, resist[i]);</pre>
24
25
26
27
28
            if (first) first = 0;
29
            else printf("\n");
            printf("Case %d:\n", caso);
30
            for (flag = 1; flag; ) {
    scanf(" %c", &c);
    if (c == 'E') {
        scanf("%c%c", &c, &cl);
    }
}
31
32
33
34
                 flag = 0;
35
              else if (c == 'S') {
    scanf("%d %d", &x, &r);
    update(x, r - resist[x]);
    resist[x] = r;
36
37
38
39
              } else {
    scanf("%d %d", &x, &y);
40
41
                 printf("%d\n", rsq(y)' - rsq(x - 1));
42
43
               }}}
44
         return 0;
45
```