2020 (ICPC) 江西省大学生程序设计竞赛正式赛题目

8. Sequence

Timelimit: 1000MS Memorylimit: 64M

Problem Description:

Given an array a consisting of n integers, on which you are to perform m operations of two types.

Given two integers x, y, replace the number of index x with number y. That is $a_x := y$.

Given one integer x, print the number of consecutive subsequences of a, whose minimum value equals to a_x .

It's guaranteed that there are no duplicated value in array a at any moment.

Input requirements:

The first line contains two intergers $n, m(1 \le n, m \le 10^5)$, where n is the size of the array and m is the number of operations to perform.

The second line contains n integer, the ith integer is $a_i (1 \le a_i \le 2^{31} - 1)$.

Then, m lines follow, describing m operation you are to perform in order.

Each line start with an integer opt \in [1,2], meaning the type of operation to perform.

If opt = 1, two integers $x, y(1 \le x \le n, 1 \le y \le 2^{31} - 1)$ follows, mentioned above.

If opt = 2, one integer $x(1 \le x \le n)$ follows, mentioned above.

Output requirements:

For each operation of type 2, print one integer on one line as the answer.

Sample input:

105

8 3 6 2 10 9 5 7 1 4

22

1911

1512

24

1818

Sample output:

4

28