BINUS UNIVERSITY
SCHOOL OF COMPUTER SCIENCE

Atten-hut

Jojo is a senior army officer. Every morning, he will call members of every squadron to stand in the field in a sorted order based on their squadron number. A list is sorted if $A_i \leq A_j$ and $i \leq j$. Given the list of squadron numbers of every soldier standing in the field, help Jojo find out how many distinct squadrons are there.

Format Input

A line with integer N followed by another line of N numbers denoting the value of A_i.

Format Output

A single line of integer denoting the number of distinct squadrons.

Constraints

- $1 \leq N \leq 10^5$

- $1 \leq A_i \leq 10^9$

Sample Input 1

```
5
1 1 3 5 6
```

Sample Output 1

```
4
```

Sample Input 2

```
4
1 1 1 1
```

Sample Output 2

```
1
```

Sample Input 3

```
7
5 15 46 56 61 73 100
```

Sample Output 3

```
7
```

Atten-hut

Jojo adalah seorang panglima TNI. Setiap pagi, dia akan memanggil semua prajurit dari setiap kelompok untuk berbaris terurut sesuai dengan nomor kelompok mereka. Suatu barisan dapat dikatakan terurut jika $A_i \leq A_j$ dan $i \leq j$. Diberikan nomor-nomor kelompok prajurit tersebut, bantulah Jojo menentukan berapa kelompok prajurit berbeda yang hadir.

Format Input

Satu baris berisi bilangan bulat N diikuti oleh satu baris berisi N angka yang menyatakan nilai dari A_i.

Format Output

Satu baris berisi bilangan yang menyatakan jumlah kelompok berbeda.

Constraints

- $1 \leq N \leq 10^5$
- $1 \leq A_i \leq 10^9$

Sample Input 1

```
5
1 1 3 5 6
```

Sample Output 1

```
4
```

Sample Input 2

```
4
1 1 1 1
```

Sample Output 2

```
1
```

Sample Input 3

```
7
5  15  46  56  61  73  100
```

Sample Output 3

```
7
```