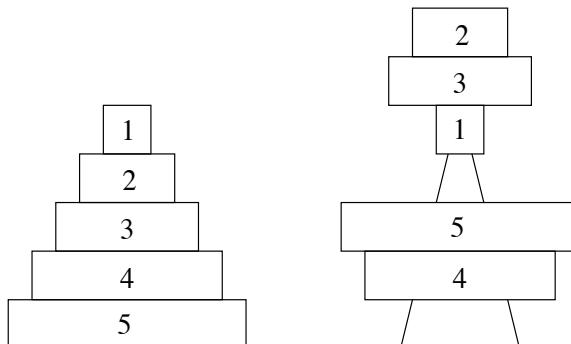


## Stacking Tower

One of the most common children's toys is a stacking tower, which consists of a series of rings of different sizes and a tapered rod which can hold the rings. The rings and rod are designed so that when the rings are placed in descending order by size, they fit exactly on the rod. Further, each ring, if placed by itself on the rod will go no lower than its position when all rings are on the rod. The diagram on the left shows an example of this toy which uses five rings, numbered 1 (smallest) to 5 (largest)



Unless endowed with super-genius mental faculties, most infants will place the rings in a random order on the rod, which results in some rings sticking over the top of the rod. The above diagram on the right shows the result of one such random placement. Your job will be to determine the number of rings which sit above the rod given a random ordering of the rings. You may assume that the rings may be stacked arbitrarily high without falling over.

### Input

Input will consist of multiple problem instances. Each instance consists of a single line of the form  $n r_1 r_2 \cdots r_n$ . The positive integer  $n$  specifies the number of rings ( $\leq 100$ ), and the remaining  $n$  integers give the order the rings are put on the rod. A value of  $n = 0$  will terminate input.

### Output

For each problem instance, you should output one line containing an integer indicating the number of rings sticking over the top of the rod.

### Sample Input

```
5 5 4 3 2 1
5 4 5 1 3 2
8 1 2 3 4 5 6 7 8
20 11 10 19 7 12 14 5 2 3 1 8 6 13 17 18 9 4 20 15 16
0
```

### Sample Output

```
0
2
7
11
```