

## Protected Wall Sequences

There are  $N$  guarding posts on the Great Wall of China. However, there are only  $M$  posts where there are guards. We call a wall between two posts protected if the posts on each end have guards. A protected wall sequence is a non-expandable sequence of protected walls.

Write a program that gives the count of protected wall sequences.

### Input

The first line of the *standard input* contains the count of posts ( $1 \leq N \leq 100$ ) and the count of posts with guards ( $1 \leq M \leq 100$ ) separated by a space. The next  $M$  lines contain the ID of a post where there are guards. There is at most one guard on each post.

### Output

The first line of the *standard output* should contain the count of protected wall sequences.

### Example

*Input*

```
15 9
6
3
12
11
4
5
8
15
14
```

*Output*

```
3
```



### Limits

Time limit: 0.1 second

Memory limit: 32 MB

Evaluation: In 40% of tests, the count of data is  $\leq 20$