

# Mock CCC '22 2 S1 - Kaguya Wants to Let Ishigami Pass

---

**Time limit:** 0.25s    **Memory limit:** 1G

---

Kaguya's class of  $N$  students just finished its final exam, a true/false exam. Ishigami is worried that he might have failed.

To help Ishigami, Kaguya will change the answer key to maximize the lowest possible score that any student gets.

Compute the maximum possible lowest score that is attainable.

## Constraints

---

$$1 \leq N \leq 10^3$$

$$1 \leq K \leq 10$$

In tests worth 1 mark,  $N = 1$ .

## Input Specification

---

The first line contains two integers,  $N$  and  $K$ .

Each of the next  $N$  lines contains a string of length  $K$ , consisting of only  T and  F, representing the answers that were submitted in the order that the questions were given.

## Output Specification

---

Output the maximum possible lowest score.

## Sample Input 1

---

```
5 4
TFTF
TFFF
TFTT
TFFT
TFTF
```

## Sample Output 1

---

```
2
```

## Sample Input 2

---

```
3 5  
TFTFT  
TFTFT  
TFTFT
```

## Sample Output 2

---

```
5
```