Time limit: 1.0s Memory limit: 1G

There is a grid with H horizontal rows and W vertical columns. Let (i, j) denote the square at the i-th row from the top and the j-th column from the left.

For each i and j $(1 \le i \le H, 1 \le j \le W)$. Square (i, j) is described by a character $a_{i,j}$. If $a_{i,j}$ is \square , square (i, j) is an empty square; if $a_{i,j}$ is \blacksquare , square (i, j) is a wall square. It is guaranteed that squares (1, 1) and (H, W) are empty squares.

Taro will start from square (1, 1) and reach (H, W) by repeatedly moving right or down to an adjacent empty square.

Find the number of Taro's paths from square (1, 1) to (H, W). As the answer can be extremely large, find the count modulo $10^9 + 7$.

Constraints

- *H* and *W* are integers
- $2 \leq H, W \leq 1000$
- $a_{i,j}$ is . or #
- Squares (1,1) and (H,W) are empty squares

Input Specification

The first line will contain 2 space separated integers, H and W.

The next H lines will each contain W characters, either a \bigcirc or (#).

Output Specification

Print the number of Taro's paths from square (1,1) to (H,W), modulo $10^9 + 7$.

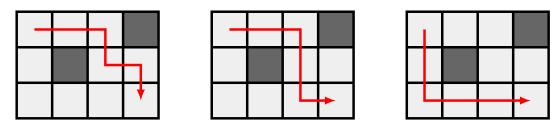
Sample Input 1

3 4 ...# .#..

Sample Output 1

Explanation For Sample 1

There are three paths as follows:



Sample Input 2

5 2		
••		
#.		
••		
.#		
••		

Sample Output 2

0

Explanation For Sample 2

There may be no paths.

Sample Input 3

5 5	
#	
##	
•••••	
#	

24

Sample Input 4

20 20 .

Sample Output 4

345263555

Explanation For Sample 4

Be sure to print the count modulo $10^9 + 7$.