

A. Fox And Snake

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Problem Definition (1)

Source: Codeforces

Title: Fox and Snake

Difficulty: Easy

Problem Definition (2)

Fox Ciel starts to learn programming. The first task is drawing a fox! However, that turns out to be too hard for a beginner, so she decides to draw a snake instead.

A snake is a pattern on a n by m table. Denote c-th cell of r-th row as (r, c). The tail of the snake is located at (1, 1), then it's body extends to (1, m), then goes down 2 rows to (3, m), then goes left to (3, 1) and so on.

Your task is to draw this snake for Fox Ciel: the empty cells should be represented as dot characters ('.') and the snake cells should be filled with number signs ('#').

Consider sample tests in order to understand the snake pattern.

Input

The only line contains two integers: n and m ($3 \le n$, $m \le 50$).

n is an **odd** number.

Output

Output n lines. Each line should contain a string consisting of m characters. Do not output spaces.



Problem Definition (3)

Examples

```
input
3 3
output
###
..#
###
```

```
input
3 4

output

####
...#
#####
```

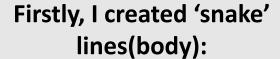
Input 9 9

#########



Solution (1)

```
i = 0
      for _ in range(m):
          if i==-1 or i==m-1:
              i+=1
               print(n*'#')
          elif i%2 == 1:
              i+=1
 11
               print(i) # print((n-1)*'.' + '#')
 12
          elif i%2 ==0:
              i+=1
              # print('#' + (n-1)*'.')
               print(n*'#')
TERMINAL
         PROBLEMS
                  DEBUG CONSOLE
                               OUTPUT
10.py
```



for -> to get m lines **if** -> to get odd rows(1,3,5,7...)

- 1. if our row's number is **odd**, print '#' n times
- 2. Else it(row's number) is **even** print 'i' to check

Conclusion:

All even numbers for 'i' is we have to fix like that:

....#

#.....



Solution (2)

```
When the i values are even numbers, we have change these numbers to .....#
```

```
elif i%2 == 1:
    i+=1
    print(i) #We should fix here
```

```
TERMINAL
10.py
```

Solution (3)

```
> 🦆 A_510.py > ...
    print('First number should be odd number (TOQ SON):')
    m, n = map(int, input().split()) # Inputing numbers for m & n
     # m<= 50 n >= 3 * n is odd number*
    i = 0 #we have to calculate loop for each row
    for in range(m): # m = Rows (line numbers)
        if i\%2 == 1: # if i is odd, we put 2nd if operators
            i+=1 # we increase i tto 1 each time
            if i\%2 == 0 and i\%4 == 0: # checking for i\%4 = 0
10
                print('#' + (n-1)*'.') # print #....(n times)
11
            else:
12
13
                print('.'*(n-1) + '#') #print n(times)....#
        elif i%2 ==0: #it is our odd lines, but even i (0,2,4,...)
14
15
            i+=1 #increasing by 1 when every loop works
            print(n*'#') # print ######## (n times)
```



What you have learned

- How to use IF operator inside the IF operator
- How to make IMPLEMANTATION with FOR & IF



Questions and Answers

Greetings