



Designer Door Mat ★

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Mr. Vincent works in a door mat manufacturing company. One day, he designed a new door mat with the following specifications:

- Mat size must be  $N \times M$ . ( $N$  is an odd natural number, and  $M$  is 3 times  $N$ .)
- The design should have 'WELCOME' written in the center.
- The design pattern should only use |, . and - characters.

Sample Designs

Size: 7 x 21

```
-----|.-----
-----|.|.|.-----
---|.|.|.|.|.|.---
-----WELCOME-----
---|.|.|.|.|.|.---
-----|.|.|.|.-----
-----|.-----
```

Size: 11 x 33

```
-----|.-----
-----|.|.|.-----
-----|.|.|.|.|.|.-----
-----|.|.|.|.|.|.|.-----
---|.|.|.|.|.|.|.|.|.---
-----WELCOME-----
---|.|.|.|.|.|.|.|.|.---
-----|.|.|.|.|.|.|.-----
-----|.|.|.|.|.-----
-----|.|.|.|.-----
-----|.-----
```

Input Format

A single line containing the space separated values of  $N$  and  $M$ .

Constraints

- $5 < N < 101$
- $15 < M < 303$

Output Format

Output the design pattern.

Sample Input

9 27

## Sample Output

```

-----|.-----
-----|.|.|.-----
-----|.|.|.|.|.-----
---|.|.|.|.|.|.|.---
-----WELCOME-----
---|.|.|.|.|.|.|.---
-----|.|.|.|.|.-----
-----|.|.|.|.-----
-----|.-----

```

Change Theme

Python 3



```

1  def generate_design(n, m):
2      n = (n - 1) // 2
3      columns = (m - 1) // 2
4      rows = []
5
6      for i in range(n):
7          row = ['-'] * columns
8
9          dots = 1 + i * 2
10         j = 1
11
12         while j <= (dots + i):
13             row[j - 1] = '|' if j % 3 == 0 else '.'
14             j += 1
15
16         row = ''.join(row[::-1]) + '|' + ''.join(row)
17         print(row)
18         rows.append(row)
19
20     print('{:-^{columns}}'.format('WELCOME', columns=m))
21
22     for r in rows[::-1]:
23         print(r)
24
25 if __name__ == '__main__':

```

Line: 1 Col: 1

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

You have earned 10.00 points!

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58%

325/400



## Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

✔ Test case 0

✔ Test case 1

✔ Test case 2

✔ Test case 3

✔ Test case 4

✔ Test case 5

Compiler Message

Success

Input (stdin)

1

7 21

Expected Output

1

2

3

4

5

6

-----|.-----

-----|.|.|.-----

---|.|.|.|.|.---

-----WELCOME-----

---|.|.|.|.|.---

-----|.|.|.|.-----

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