



# Bounce

Java May'19 Advanced Practice 1 - 2 days 04:52:29

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Arrays

⬆ **Difficulty**

Intermediate

▼ **Allowed languages**

C#, java, JavaScript

You are given numbers **N** and **M**. They form a matrix of the powers of 2.

**Example:** N = 3, M = 4

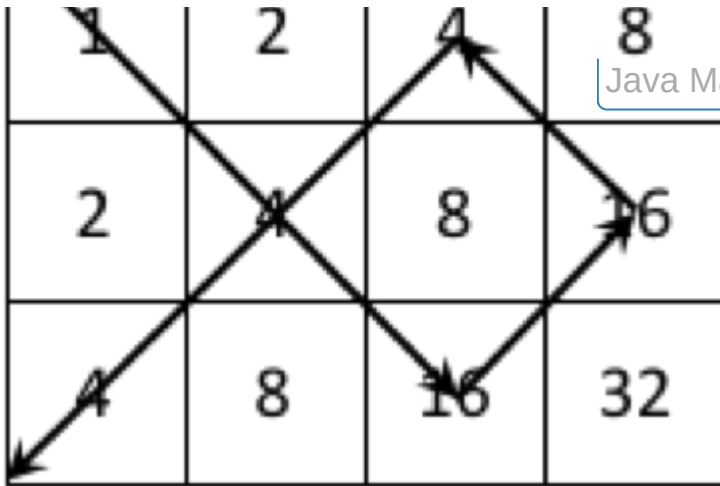
```
1 2 4 8
2 4 8 16
4 8 16 32
```

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Starting from the top left corner of the matrix, Go with diagonal moves, until you hit a wall. When a wall is hit, change direction. You do this, until the direction cannot be changed, i.e. you hit a corner.

**Example:**

If you have the above matrix, the path will be: `1 4 16 16 4 4 4`



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Your task is to find the sum of this path.

## Input

Read from the standard input

- On the single line of the input, read the numbers **N** and **M**

## Output

Print to the standard output

- On the single line of the output, print the sum of the path

## Sample tests

### Input

3 4

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### Output

49

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## ? Clarifications

No clarifications have been made at this time.