



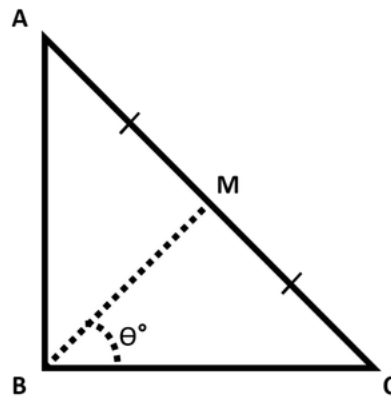
Find Angle MBC ★

42/115 challenges solved

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$\triangle ABC$ is a right triangle, 90° at B .

Therefore, $\angle ABC = 90^\circ$.

Point M is the midpoint of hypotenuse AC .

You are given the lengths AB and BC .

Your task is to find $\angle MBC$ (angle θ° , as shown in the figure) in degrees.

Input Format

The first line contains the length of side AB .

The second line contains the length of side BC .

Constraints

- $0 < AB \leq 100$
- $0 < BC \leq 100$
- Lengths AB and BC are natural numbers.

Output Format

Output $\angle MBC$ in degrees.

Note: Round the angle to the nearest integer.

Examples:

If angle is 56.5000001° , then output **57**.

If angle is 56.5000000° , then output **57**.

If angle is 56.4999999° , then output **56**.

$0^\circ < \theta^\circ < 90^\circ$

Sample Input

10
10

Sample Output

45°

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Language

Python 3



```
1 # Enter your code here. Read input from STDIN. Print output to STDOUT
2 import math
3
4 ab = float(input())
5 bc = float(input())
6
7 # In a right triangle, since M is the midpoint, AM=BM=CM
8 # Therefore angle BMC is equal to angle MCB
9 angle = math.atan(ab/bc)
10 print(f"{round(math.degrees(angle))}{chr(176)}")
```

EMACS

Line: 10 Col: 49

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

You have earned 10.00 points!

42/115 challenges solved.

37%



Congratulations

Next Challenge

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

✓ Test case 0

Compiler Message

✓ Test case 1

Success

✓ Test case 2

Input (stdin)

Download

1 10

✓ Test case 3

2 10

✓ Test case 4

Expected Output

Download

1 45°

✓ Test case 5