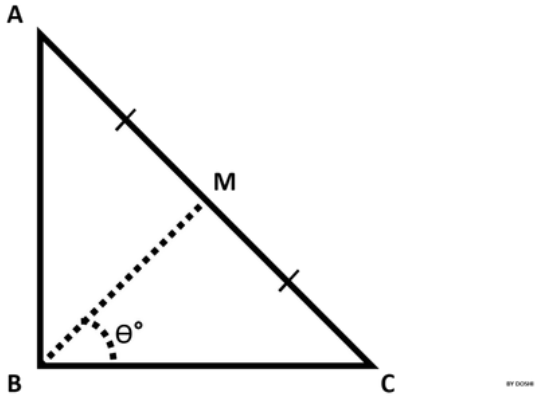
Find Angle MBC

Problem Submissions



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°

Current Buffer (saved locally, editable)

Python 3

```
import math
AB,BC=int(input()),int(input())
hype=math.hypot(AB,BC)
res=round(math.degrees(math.acos(BC/hype)))
degree=chr(176)
print(res,degree, sep='')

```

Line: 7 Col: 1

Upload Code as File Test against custom input Run Code Submit Code