

# Valar Morghulis Question-1

Given **a** and **b**, find  $(a^b \text{ modulo } 1000000007)$ .

## Input Format

A single line containing **a** and **b** separated by space.

## Constraints

- $1 \leq a \leq 10^9$
- $0 \leq b \leq 10^9$

## Output Format

A single line denoting the value of  $(a^b \text{ modulo } 1000000007)$ .

## Sample Input 0

2 3

## Sample Output 0

8