# Ambar and BST

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|---|---|
| Input file: | `standard input` |
| Output file: | `standard output` |
| Time limit: | 1 second |
| Memory limit: | 256 megabytes |

Ambar is interested in keeping this problem statement short, so let us get straight to the point. Find the number of binary search trees with $N$ nodes and height exactly $H$, modulo $10^9 + 7$.

## Input

The input consists of a single line having two integers $N$ & $H$ ($1 \leq H \leq N \leq 500$).

## Output

Output a single integer, number of distinct BST's modulo $10^9 + 7$.

## Examples

| standard input | standard output |
|---|---|
| 3 3 | 4 |
| 4 3 | 6 |
| 5 3 | 6 |