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BETA

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1. Find Kth Symbol

ALL

Problem Description

On the first row, we write a 0. Now in every subsequent row, we look at the previous row and replace each occurrence of 0 with 01, and each occurrence of 1 with 10.

Given row number A and index B , return the B^{th} indexed symbol in row A . (The values of B are 1-indexed.).

Problem Constraints

 $1 \leq A \leq 20$ $1 \leq B \leq 2^{A-1}$

Input Format

First argument is an integer A .
Second argument is an integer B .

Output Format

Return an integer denoting the B^{th} indexed symbol in row A .

Example Input

Input 1:

 $A = 2$ $B = 1$

```
1 > #include <assert.h>
19 |
20 | /*
21 |  * Complete the 'solve' function below,
22 |  *
23 |  * The function is expected to return an INTEGER.
24 |  * The function accepts following parameters:
25 |  * 1. INTEGER A
26 |  * 2. INTEGER B
27 |  */
28 |
29 | int solve(int A, int B) {
30 |
31 | }
32 |
33 > int main()
```

Test Results

Custom Input

Desktop

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Example Input

Input 1:

A = 2
B = 1

ALL

Input 2:

A = 2
B = 2

Example Output

Output 1:

0

Output 2:

1

Example Explanation

Explanation 1:

Row 1: 0

Row 2: 01

Language C

```
1 > #include <assert.h>
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```
> int main() ...
```

• Complete the 'solve' function below.

• The function is expected to return an integer.

• The function accepts following parameters:

1. INTEGER A

2. INTEGER B

*/

```
int solve(int A, int B) {
```

```
}
```

Example Explanation

Explanation 1:

Row 1: 0

Row 2: 01

Explanation 2:

Row 1: 0

Row 2: 01