





▼ Noodle soup



#### Majid, Milad, fieldwork

• Time limit: 2 seconds

• Memory limit: 256 MB

Milad and Majid are making a long string of 0 And 1 are.

The string is made in such a way that in the first step1writes After that, each person in his turn considers the string that has been made so far and by converting all1to0and all0to1writes the resulting string in the continuation of the previous string and then it is the next person's turn. And they continue this work forever.

For example, the first five turns of the game are as follows:

first birth1and the string at the end of this step1will be

Then Majid, the current field that1takes and completes it and adds it to the end of the string. At the end of this step, the string is1 0will be

Then AD1 0takes and completes it and adds it to the end of the string and at the end of this stage the string is  $1\ 0\ 0\ 1$  will be.

<b>a</b>	▼ Questions		
50	string concatenation		
100	Comparison		
100	Caesar's code		
100	String sorting		
100	Multiplication of matrices		
120	/: ?Kan Chichi Shan		
130	Simple typo checker		
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All submissions			
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Scoreboard

Then Majid Nasheh $1\ 0\ 0\ 1$  and by completing it and adding it to the end of the string, the string is in the form  $1\ 0\ 0\ 1\ 0\ 1\ 0$  will be And in this way, the construction of the string continues forever.

Now we ask you to take  $\mathrm{it} L \mathrm{And} R$ , from the  $\mathrm{character} L \mathrm{M}$  to  $\mathrm{character} R \mathrm{Print}$  the string for us.

## Input

in a line respectively  $L \operatorname{And} R$  It will be given to you.

## Output

of the character  $L{\rm M}$  to character  $R{\rm Print}$  the string in one line without spaces.

## Example

#### Sample input 1

1 2

#### Sample output 1

# Sample input 2 7 10 Sample output 2 1001 POST AN ANSWER TO THIS QUESTION .The training period is over

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