

PRACTICE

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Pass the hat

Problem

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The students of Grade 5 are playing a game. n students stand in a circle. The first kid is given a hat and the game starts. Each kid is supposed to pass on the hat to the next kid in a clockwise direction. Every kth kid recieveing the hat is declared out and he/she return to the desk. The last kid standing wins. Given n and k, and the count of the kids start from 1, find the winner.

Input Format

The input consists of a single line containing two space seperated positive integers n and k.

Constraints

3<=n<=10^7 2<=k<=10^6

Output Format

The output is a single integer denoting the position of the winner.

Sample Input 0

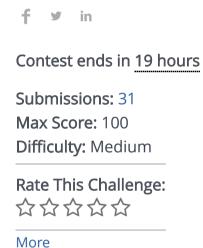
100 7

Sample Output 0

50

Explanation 0

The 50th kid wins!



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Current Buffer (saved locally, editable) $\mathcal{V} \cdot \frac{\dagger}{\dagger} \frac{\dagger}{\da
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```
/* Enter your code here. Read input from STDIN. Print output to STDOUT */
preturn 0;
10 }
11 Line: 1 Col: 1
```

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