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COMPETE

JOBS

LEADERBOARD

Search



kenkthejesh ▾

[All Contests](#) > [Code-It-On](#) > [Pass the hat](#)

Pass the hat

Problem

Submissions

Leaderboard

Discussions

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 k th kid receiving 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 separated positive integers n and k .

Constraints

$$3 \leq n \leq 10^7 \quad 2 \leq k \leq 10^6$$

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!



Contest ends in 19 hours

Submissions: [31](#)



Max Score: 100

Difficulty: Medium

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C



```
1 ▼ #include <stdio.h>
2  #include <string.h>
3  #include <math.h>
4  #include <stdlib.h>
5
6 ▼ int main() {
```

```
7
8 ▼  /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9     return 0;
10 }
11
```

Line: 1 Col: 1

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