

Sabzeh with Lentils

time limit per test: 1 second (1 second for Python)
memory limit per test: 976.6 megabytes
input: standard input
output: standard output
points: 100 · problem code: sabzehwithlentils

Parsa's Grandmother has prepared a row of n planting positions, numbered from 1 to n . She wants to plant exactly k lentil seeds in these positions.

At most one seed can be planted in each position.

If two consecutive positions both contain a seed, that creates one adjacent occupied pair. Grandmother wants to place the k seeds so that the number of adjacent occupied pairs is as small as possible.

Compute this minimum possible number.

Input

The input contains two integers, n the number of positions and k , the number of lentil seeds.

Output

Print a single integer: the minimum possible number of adjacent occupied pairs.

Constraints

- $2 \leq n \leq 100$
- $1 \leq k \leq n$

Example 1

Input

5 2

Output

0

Example 2

Input

5 4

Output

2