Planting Trees

In a particular field, there are trees in a single row from left to right. Each tree has a value V. You cut trees from left to right and for each tree of value V that you cut, you plant (V + 1) % M trees on the right most end with values ranging from 0 to
((V + 1) % M) - 1.

Initially, there was only one tree with value 2. Find the total number of trees present after cutting K trees.

Input Specification:

input1: K, denoting the number of trees that are cut.
input2: M, denoting the modulus value.

Output Specification:

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input: 5

output: 3

Explanation: After cutting the tree with value 2, you have to plant (2+1)%5=3 trees from 0 to 2
Final field view: (0, 1, 2).

Example 2:

input1: 1
input2: 2

output: 1

Explanation: After cutting the tree with value 2, you have to plant (2+1)%2=1 trees from 0 to 0.
Final field view: (0).

Corner Testcase 1

Basic Testcase 1

Basic Testcase 2

Basic Testcase 4

Corner Testcase 2

Necessary Testcase

Code | Results | You

Input Specification:

input1: K, denoting the number of trees that are cut.
input2: M, denoting the modulus value.

Output Specification:

Your function should return the total number of trees in the field.

Example 1:

input1: 1
input2: 5

output: 3

Explanation: After cutting the tree with value 2, you have to plant (2+1)%5=3 trees from 0 to 2
Final field view: (0, 1, 2).

Basic Testcase 3
Corner Testcase 1
Basic Testcase 1
Basic Testcase 2
Basic Testcase 4
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Code | Results

Question :

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Your function should return the total number of trees in the field.

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Code Results