The Josephus problem

How to avoid being executed? Or just to be chosen in the round ball? The Josephus problem dates all the way back to Roman times, and it is a pattern that is particularly used in mathematics and computer science.

In this task, you must find the best position to stand in based on the following:

There are 41 hostages to be executed by their captors. Everyone stands in a circle and every 3rd person must be executed continuously until there are no more hostages left other than one - he gets out alive. Which starting position should the person have to start with?

This pattern, in mathematical parlance, is called a cyclical pattern that repeats itself.

In the example above, it is the person in place number 31 who goes free

Write a program which can input the number of soldiers(n) and the execution interval(k) and whose output indicates the position to stand in to be the lucky pamjulefis.

Test your program with n=41 and k=3 and see if you don't get the result 31.

Tip: Always go clockwise! If the interval e.g. is 3, it is the person in position 3 who dies first.