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CSD325 Assignment 2.2

11 January 2025

Debugging

For this assignment, I grabbed an interesting kata solution from codewars by user [falsetru](https://www.codewars.com/users/falsetru). The kata is named [Josephus Permutation](https://www.codewars.com/kata/5550d638a99ddb113e0000a2/python).

The user’s solution used list comprehension to minimize lines of code. To better chart it out and step through it with the debugger, I broke it out into more lines of code, but you can see the original code commented out at the bottom.

First starting the debugger:

A screen shot of a computer

Description automatically generated

Stepping into the function (I stepped one more time to get q into the variables pane):

A screenshot of a computer program

Description automatically generated

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After one iteration of the for loop:

A computer screen shot of a program

Description automatically generated

I thought this was an interesting step to show next because it shows how the deque was rotated to put 3 (originally the third item) at the beginning, then popped three out, so now the deque goes 4-12 and then 1-2. You can see that recent is 3.

The point of the function is to see what number would be left if you removed every nth number from the list, continuing counting at the beginning after reaching the end, so you can see how this works with the deque.rotate() function.