Software developer fitness test

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# Question 3

## Develop a simplified algorithm to solve the following problem

$noOfPeriods; //possible values: 1, 2, 4, 12

$currentMonth; //possible values: 1 to 12

$window = -1; //possible values: 0 to 11, default = -1

# Solution

def get\_window\_id(no\_of\_periods, current\_month):

    window = -1         *#possible values: 0 to 11, default = -1*

    step = int(total\_month/no\_of\_periods)

    month\_upper\_range = range(0, total\_month, step)

    for mont\_upper in month\_upper\_range:

      if mont\_upper >= current\_month:

        break

      else:

        window = window + 1

    return window

get\_window\_id function which takes two integer arguments of no\_of\_periods & current\_months and returns window\_id

# File Structure

assesment-interview/

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└── docs/

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└── src/

└── \_\_init\_\_.py

└── window\_calculator.py

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└── test\_get\_id\_unittest.py

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└── src/

# Test

To run the test cases run

Python test\_get\_id\_unittest.py

Add many assertion as you wish in the test file if you want.