# MyCES Coding Interview (Full-Stack Developer)

Code can be written in any language. Submit the code through a zip file or github link.

After submission, a code review will be held as the final stage of the interview

## 1) Logic / Problem Solving

A Pythagorean triplet is a set of three natural numbers, a < b < c, for which, a2 + b2 = c2

For example, 32 + 42 = 9 + 16 = 25 = 52.

There exists exactly one Pythagorean triplet for which a + b + c = 1000. Find the product abc.

#### Answer:

## 2) Data Manipulation

Given an array, rotate the array to the right by k steps, where k is non-negative.

#### Example 1:

```
Input: nums = [1,2,3,4,5,6,7], k = 3
Output: [5,6,7,1,2,3,4]
Explanation:
rotate 1 steps to the right: [7,1,2,3,4,5,6]
rotate 2 steps to the right: [6,7,1,2,3,4,5]
rotate 3 steps to the right: [5,6,7,1,2,3,4]

Example 2:
Input: nums = [-1,-100,3,99], k = 2
Output: [3,99,-1,-100]

Explanation:
rotate 1 steps to the right: [99,-1,-100,3]
```

rotate 2 steps to the right: [3,99,-1,-100]

# Follow up

Here are some example code but it's not complete. You may use it or come up with a new and better solution.

```
let nums = [1,2,3,4,5,6,7]
let k = 3
for(i=0;i<k;i++) {
    let temps = nums[nums.length]
        for(j=nums.length;j>0;j--) {
            nums[j]=nums[j]
            if(j==1) {
                 nums[0]=temps
            }
        }
        console.log(nums);
}
```

## **Answer:**

## 3) Complete Project (Don't try too hard, just do what you can.)

Develop a To-Do List webpage using any language and any stack.

The page should be able to add an item, read all item list, delete item and mark the item as completed. The item should persist on page refresh.

Page is intended for 1 user only.

Development of the backend is optional, but encouraged.

No Backend: HTML + JS + Storage

Easy stack : HTML + JS + CSS + PHP + MySQL Challenge Stack : Vue3 + NestJS + TypeORM

### Output For No backend:

# To-Do List Using Vue

Add Task	Add	
Makan tgh hari		Delete
makan Malam		Delete
Breakfast		Delete

#### #comments

- -The data should stay after refresh as it should be with simple storage without a backend.
- -The coding of this in the **zipped file**.
- -For now, I didn't know much about PHP + MySQL