QUESTION NO 1

ARRAY CONCATENATION

Given an integer array `nums` of length `n`, you want to create an array `ans` of length `2n` where `ans[i] == nums[i]` and `ans[i + n] == nums[i]` for `0 <= i < n` (**0-indexed**).

Simply explained, `ans` is the **concatenation** of two `nums` arrays. Your function should return the array `ans`.

Example 1:

```
Input: nums = [1,2,1]

Output: [1,2,1,1,2,1]

Explanation: The array ans is formed as follows:

- ans = [nums[0],nums[1],nums[2],nums[0],nums[1],nums[2]]

- ans = [1,2,1,1,2,1]
```

Example 2:

```
Input: nums = [1,3,2,1]

Output: [1,3,2,1,1,3,2,1]

Explanation: The array ans is formed as follows:

- ans = [nums[0],nums[1],nums[2],nums[3],nums[0],nums[1],nums[2],nums[3]]

- ans = [1,3,2,1,1,3,2,1]
```

QUESTION NO 2

NUMBER OF PRIMES

Write a function which takes only one argument `n`. The function should return number of primes found between `1` to `n`.

∴ A prime number is a whole number greater than 1 whose only factors are 1 and itself.

Example 1:

```
Input: n = 10

Output: 4

Explanation: Because 2, 3, 5, 7 are only prime numbers between 1 to 10
```

Example 2:

```
Input: n = 20

Output: 19

Explanation: Because 2, 3, 5, 7, 11, 13, 17, 19 are only prime numbers between 1 to

20
```

QUESTION NO 3

RICHEST CUSTOMER WEALTH

You are given an `m x n` integer grid named `accounts` where `accounts[i][j]` is the amount of money the `i^th` customer has in the `j^th` bank. Return the **wealth** that the richest customer has.

A customer's **wealth** is the amount of money they have in all their bank accounts. The richest customer is the customer that has the maximum **wealth**.

Example 1:

```
Input: accounts = [[1,2,3],[3,2,1]]

Output: 6

Explanation:

1st customer has wealth = 1 + 2 + 3 = 6

2nd customer has wealth = 3 + 2 + 1 = 6

Both customers are considered the richest with a wealth of 6 each, so return 6.
```

Example 2:

```
Input: accounts = [[1,5],[7,3],[3,5]]

Output: 10

Explanation:

1st customer has wealth = 6

2nd customer has wealth = 10

3rd customer has wealth = 8

The 2nd customer is the richest with a wealth of 10.
```

Example 3:

```
Input: accounts = [[2,8,7],[7,1,3],[1,9,5]]

Output: 17
```

QUESTION NO 4

PALINDROME

Write a function which takes a word `n` as an argument and returns `true` if the word is **palindrome** or `false` if the word is not a **palindrome**.

∴ A **palindrome** is a word, phrase, number, or sequence of words that reads the same backward as forward.

Example 1:

```
Input: “maham”

Output: True
```

Example 2:

```
Input: “hello”

Output: False
```