# 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**..

[∴](https://math.stackexchange.com/questions/3133994/three-dot-%e2%88%b4-symbol-meaning) 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**.

[∴](https://math.stackexchange.com/questions/3133994/three-dot-%e2%88%b4-symbol-meaning) 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

**\_\_\_\_\_\_**