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WEEK 7 - CONTEST REVISION

NOTE:

- No need to submit anywhere, just keep track of all the PDF you made in a specific folder.
- Compare your solution with the solution I'll provide, in case of doubts, kindly reach out to me.
- You may get assignment solution in format of PDF or VIDEO solution, depending on the difficulty level.
- **Q1.** Write a function to check if a given string is a palindrome. Use 2 methods. One is using slicing and other using loops. Both should be written. So basically make 2 functions for each.
- **Q2.** Write a program to generate a list of even numbers between 1 and 20 using list comprehension.
- **Q3.** Write a function that takes a string as input and returns only vowels in that string.

```
# Example 1
r = onlyVowels("abcdef")
print(r)

# Output
ae

# Example 2
r = onlyVowels("A24bKA78EAC%^i")
print(r)

# Output
AAEAi

# Example 2
r = onlyVowels("123456789")
print(r)

# Output
```

Q4. Write a function to find the contiguous subarray with the largest sum in a given list of integers.

```
# Example
mylist = [[1,2,1,6,2],[5,6,5],[-1,1,1,1,1]]
r = largestSum(mylist)
print(r)

# Output
16

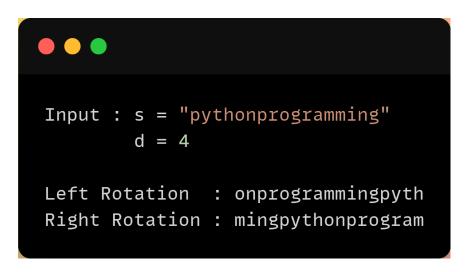
# Explanation
[5,6,5] has highest sum so answer is 16
```

- **Q5.** Python program to find second largest number in a list. If 2nd largest element does not exists. Return -1.
- Q6. Write a program for Sum of number digits in List.

```
# Example
mylist = [12, 67, 98, 34]

# Output
[3, 13, 17, 7]
```

- **Q7.** Write different ways to remove i'th character from string in Python. Ask i from user.
- **Q8.** Write a program to find Maximum frequency character in String. Return/Print the character which comes the most times in that string.
- **Q9.** Given a string of size n, write functions to perform following operations on string:
 - **Left (Or anticlockwise)** rotate the given string by d elements (where d <= n).
 - Right (Or clockwise) rotate the given string by d elements (where d <= n).



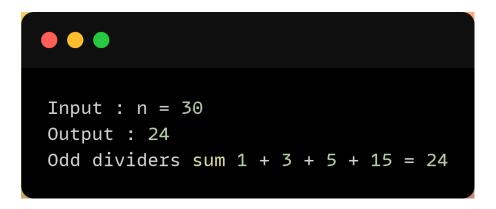
- **Q10.** Python program to find the sum of all items in a dictionary.
- **Q11.** Ways to sort list of dictionaries by values in Python Using lambda function.
- **Q12.** Remove all duplicates words from a given sentence.

```
Input: Python is great and Java is also great

# Output
Output: is also Java Python and great

# Keep in mind order doesnt matter
```

- **Q13.** Write a program to get/print the number of characters, words, spaces and lines in a file.
- Q14. Python Program to merge two files into a third file.
- Q15. Python Program for Find sum of odd factors of a number.



Q16. Write a python program for a given long integer, we need to find if the difference between sum of odd digits and sum of even digits is 0 or not. The indexes start from zero (0 index is for the leftmost digit).

Input: 1212112
Output: Yes
Explanation:

the odd position element is 2+2+1=5 the even position element is 1+1+1+2=5 the difference is 5-5=0 equal to zero . So print yes.

Input:12345
Output: No
Explanation:

the odd position element is 1+3+5=9 the even position element is 2+4=6 the difference is 9-6=3 not equal to zero. So print no.