Python Sheet

Q1: Take from user x number and prints the factorial of number X

HINT: make a function to do the factorial and use it

Q2: Write a Program to Count the N	lumber of Zeros in A Number
Examples	

input

10120022210

output

4

Q3: Given a list of strings, create two lists, the first one has half of each string, and the other list contains the other half of the strings

Q4: Given two numbers A and B. Print all lucky numbers between A and B inclusive.

Note:

The **Lucky number** is any positive number that its decimal representation contains only **4** and **7**. **For example:** numbers **4, 7, 47**, and **744** are **lucky** and numbers **5, 17**, and **174** are **not**.

Print all **lucky numbers** between A and B **inclusive** separated by a space if there is **no lucky number** print **-1**.

Examples

input

4 20

output

47

input

8 15

output

-1

Q5: Given a number *N* and an array *A* of *N* digits (not separated by space). Print the summation of these digits.

input

N=5

13305

output

12

Q6: Write a program to find the second largest and second smallest number in a list. [Do not use any built-in functions]

Q7: Write a Python function that takes a list and returns a new list with unique elements of the first list. **Do not use** built-in functions

input

[5,7,7,8,8,8,10]

output

[5,7,8,10]

Q8: not a code question:

Describe what you know about OOP in a short paragraph

Q9: Write a program to calculate the area of a parallelogram given two of its sides and the angle between them. Using class & object. **Use OOP to build this program**

the data entered by the user.

Q10: Write a **Python class** named Circle constructed from a radius and two methods that will compute the area and the perimeter of a circle.