Name	Roll no; Section <u>A</u> ; Group
CSE 101 Introduction to Programming Section A C	Quiz 2, Nov 3, 2023
instructions: There are 5 problems, each of 6 mark	ks, for a total 30 marks. The total time allowed is 30 min.
1. A price list of products cold in all	anowed is 50 min.
'item': (price di-	n of a dictionary where the price of an individual product is given as
	not be in hopes, and discount and gst are given as percentage E a
To be a series ('Car': (9, 10, 12),	'teddy': (20, 10, 12), 'shirt': (9, 15, 6), etc. etc. }.
discount is availed, the final price is Rs. 20.16 (c	is priced at Rs. 20, with a discount of 10%, and GST of 12% applied after the check).
Rewrite the function (below) in Python that will	
piece of one product, given the Price_List.	compute and return the final price a customer will have to pay to buy one
def final_item_price(formal paramete	
# these lines replaced with one	ch appropriate list of formal parameters, and or more executable statements to complete this function
	statements to complete this function
Confect answer	
def final_item_price(PL, item):] [Price = PL[item][0]	- 1 point) overall 6 points
price -= price*PL[item][1]/100	3 points overall 6 points
price += price*PL[item][2]/100	7 ,3 ,
return (price))	1 hoim
Price List = ('car')	P
print(final item : (9, 10, 12), 'te	eddy': (20 10 10)
This question has to do with all	
This question has to do with aliasing. Consider the determines if the list of elements in the list x is a 'Correct answer:	e following Python code, and conclude whether the function correctly 'palindrome', and if NOT, why is that so. Give your answer here.
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What is output for the particular case when L = [2, 65, 34, 24, 17]? Give your answer here:

Correct answer: hi = 4 lo = 0 List = [2, 34, 24, 17, 65] hi = 3 lo = 0 List = [2, 24, 17, 34, 65] hi = 2 lo = 0 List = [2, 17, 24, 34, 65]hi = 1 lo = 0 List = [2, 17, 24, 34, 65]

4. We like to prove that $f(n) = c_3 * n^3 + c_2 * n^2 + c_1 * n + c_0 = O(n^3)$. That is, can we come up with a C and an $n_0 > 0$ such that $C * n^3 > f(n)$ for all $n > n_0$? Note it does not matter how large C is, or how large n_0 is. Can you suggest a C and an $n_0 > 0$? Write your answer here:

Correct answer

C = abs(c₃) + abs(c₂) + abs(c₁) + abs(c₀)

n₀ = 1

No can be anything alon > 1 2 points

We are given below a Python program to identify along the state of the s

5. We are given below a Python program to identify all words in a given sentence/paragraph. For instance, the program prints the list ['now', 'you', 'are', 'required', 'to', 'write', 'a', 'python', 'program'] for the test case text = 'Now, you are required to write a Python program'.

I have introduced 3 bugs in the program. Can you identify them? One is a simple syntax error. The other two point to error in logic of the program.

Question 5 stands withdrawn. It is not to be graded. The quiz will be graded out of 24, not 30.