Name: I	NetID:
Q1. Explain all iterations of the for loop below (c Also, what is the value of the variable <i>result</i> ?	larify the state of all related variables).
alphabets = "abcdefghijklmnopqrstuvwxyz"	
digits = "0123456789"	
def NYU_id(astr):	
flag_alphabet = False	
for char in astr:	
if not flag_alphabet and char in alp	habets:
flag_alphabet = True	
elif char in digits:	
return True	
return False	
result = NYU id("jk190")	

The variable `result` is True. I recommend how it works with pythontutor.com, it returns True before the last character (which implies it is incorrect in some examples). See also Assignment 6.

Q2. Show an example (parameters to NYU\_id, such as "jk190") where the function NYU\_id incorrectly classifies a valid/invalid nyu id string.

For example, it misclassifies "j190k" as True.

Name:	NetID:	<u></u>
Q1. Explain all iterations of the for result.	· loop below inside "my_maximu	ım", and the value of
def my_maximum(int_list): current max = -1		
for element in int list:		
if element > current_	_max:	
current_max =	= element	
return current_max		

Omitted, see the pythontutor.com. The key is that it keeps the partial maximum - for example, at the end of the third iteration, current\_max is the max among the first three elements.

Q2. Show an example where the function my\_maximum incorrectly computes the max, and explain all iterations of the for loop in that case.

```
It starts with -1, so if the maximum is -2, it still outputs -1. result = my_maximum([-2, -10, -5])
```

result = my\_maximum([1, 2, 10, 5, 12])