1. Whole Numbers

(a) A hole number is a number in which every other digit dips below the digits immediately adjacent to it. For example, the number 968 would be considered a hole number because the number 6 is smaller than both of its surrounding digits. Assume that we only pass in numbers that have an odd number of digits. Define the following function so that it properly identifies hole numbers.

def	<pre>check_hole_number(n): """</pre>
	>>> check_hole_number(123) False
	>>> check_hole_number(3241968)
	True
	>>> check_hole_number(3245968)
	False
	нин
	if:
	return
	return

- (b) Define the following function so that it properly identifies mountain numbers. A mountain number is a number that either
 - i. has digits that strictly decrease from right to left OR strictly increase from right to left
 - ii. has digits that increase from right to left up to some point in the middle of the number (not necessarily the exact middle digit). After reaching the maximum digit, the digits to the left of the maximum digit should strictly decrease.

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def	<pre>check_mountain_ """</pre>	number(n):	
	<pre>>>> check_mount False</pre>	ain_number(103)	
	<pre>>>> check_mount True</pre>	ain_number(153)	
	<pre>>>> check_mount True</pre>	ain_number(123456)	
	<pre>>>> check_mount True """</pre>	ain_number(2345986)	
	def helper():
	if		:
	return		
	if		:
	return		
	return		
	return helper(_		