

MTH 337, SAMPLE QUIZ #9

Fall 2021

Professor: S. Cassani

You have 10 minutes to complete the quiz.

Name: _____
(Also print name on back upper right corner of quiz.)

Max score: 10

	Python Code	Result	
1	<pre>myarray=np.array([1,2,3,4,5,6]) b = myarray %3 == 0 print(b)</pre>		
2	<pre>myarray=np.array([1,2,3,4,5,6]) b = myarray %3 == 0 myarray[b]=11 print(myarray)</pre>		
3	<pre>myarray=np.array([1,2,3,4,5,6]).reshape(2,3) b = myarray % 2 == 0 c = myarray >= 4 print(myarray[b&c])</pre>		
4		Given <code>a=np.random.rand(3,4)</code> , change all numbers greater than 0.5 to 1	
5		Assume there is a file called <code>landscape.jpg</code> on your laptop in the folder where you currently working. Read the image, then change the color to black for all pixels where the green component is less than 0.3	
6	<pre>a=np.arange(6).reshape(3,2) b=np.arange(3).reshape(3,1) print(a+b)</pre>		
7		Given <code>a=np.arange(12).reshape(4,3)</code> Add 1 to all the elements in the first column of <code>a</code> , add 2 to all the elements in the second column of <code>a</code> , and add 3 to all the elements in the third column of <code>a</code> . Use as little instructions as possible	
Total Points:			