

MTH 337, SAMPLE QUIZ #7

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.arange(40).reshape(5,-1) print(myarray[1:3,2:4])</pre>		
2	<pre>myarray=np.linspace(2,10,9).reshape(3,3) b = myarray % 2 == 0 c = myarray < 5 print(myarray[b c])</pre>		
3		Given <code>a=np.random.rand(3,4)</code> , change all numbers greater than 0.5 to 1	
4		Assume for the remainder of the quiz that the following command has been run <pre>import matplotlib.pyplot as plt import numpy as np</pre> Assume there is a file called <code>tattoo.jpg</code> on your laptop in the folder where you currently working. Read the image, then plot the image in grayscale.	
4		Assume there is a file called <code>landscape.jpg</code> on your laptop in the folder where you currently working. Read the image, then create a 2×2 subplot containing the image in RGB, red-scale, green-scale and blues-scale	
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	
Total Points:			