MTH 337, SAMPLE QUIZ #7

Spring 2020
Professor: S. Cassani

Name: _____

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

You have 10 minutes to complete the quiz.

Max score: 10

	Python Code	**Result**	
1		Write the code that creates an one-dimensional array a with numbers from 0 to 8. Print to screen the array containing the values of the array grater than 2, and not greater than 6.	
2		Write the code that creates a 3x4 array a with numbers from 0 to 11. Use boolean indeces to set all of the entries of a, that are less than 2 or greater than 8, equal to 0.	

3		For the remainder of this quiz assume that the following code has been executed:
		
		`import matplotlib.pyplot as plt`
		`import numpy as np`
		`imga=np.random.rand(5,4,3)`
		
		write the code that makes a copy of `imga` (call the copy `imgb`), and changes to black all the pixels where the <u>red</u> component of the image is greater than 0.5. Use boolean indeces.	

4		Write the code that makes a copy of `imga` (call the copy `imgc`), and changes to 1 the <u>blue</u> componet of all the pixels where the <u>green</u> component of the image is between 0.1 and 0.7. Use boolean indeces.	

Total Points: