

STSCI 4060 Quiz 4

4/8/2019

Name:

NetID:

Question 1. After the following Python code is executed, what is `ar1[1::1, ::3]`?

```
import numpy as np
ar1=np.array([[1,2,3,4,5,6],
              [7,8,9,10,11,12],
              [13,14,15,16,17,18],
              [19,20,21,22,23,24],
              [25,26,27,28,29,30],
              [31,32,33,34,35,36]])
```

(55 points)

```
array([[ 7, 10],
       [13, 16],
       [19, 22],
       [25, 28],
       [31, 34]])
```

Question 2. After you run the following cells in Jupyter Notebook, fill in the outputs for `Out[2]:`, `Out[3]:` and `Out[4]:` (45 points)

```
In [1]: import numpy as np
ar2=np.arange(5,10)
ar3=np.arange(10,16)
ar2.resize(8)
ar4=np.resize(ar3,8)
```

```
In [2]: ar2
```

```
Out[2]: array([5, 6, 7, 8, 9, 0, 0, 0])
```

```
In [3]: ar3
```

```
Out[3]: array([10, 11, 12, 13, 14, 15])
```

```
In [4]: ar4
```

```
Out[4]: array([10, 11, 12, 13, 14, 15, 10, 11])
```