



Two Dimensional Numpy

TOTAL POINTS 3

1. What is the value of Z after the following code is run:

1 point

```
1 X=np.array([[1,0],[0,1]])
2 Y=np.array([[0,1],[1,0]])
3 Z=X+Y
```

- ☒ array([[1, 1],[1, 1]])
- ☐ array([[1, 0],[0, 1]])
- ☐ array([[0, 1],[1, 1]])

2. what values does the variable **out** take if the following lines of code are run:

1 point

```
1 X=np.array([[1,0,1],[2,2,2]])
2 out=X[0:2,2]
3 out
```

- ☐ array([1, 0])
- ☒ array([1, 2])
- ☐ array([1, 1])

3. What is the value of **Z** after the following code is run:

1 point

```
1 X=np.array([[1,0],[0,1]])
2 Y=np.array([[2,1],[1,2]])
3 Z=np.dot(X,Y)
```

- ☒ array([[2, 1],[1, 2]])
- ☐ array([[2, 0],[1, 0]])
- ☐ array([[3, 1],[1, 3]])

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