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Assignment.ipynb ☆

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[ ] [10 11 12 13 14 15 16 17 18 19 20]

[ ] `import numpy as np`  
`a=np.arange(10,51)`  
`print(a)`

[ ] [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 37 38 39 40 41 42 43 44 45 46 47 48 49 50]

[ ] `a=np.random.random((4,4))`  
`print(a)`

[ ] `[[0.97386262 0.74281824 0.71475314 0.22969314]`  
`[0.64403189 0.88408597 0.1719432 0.35501109]`  
`[0.0661547 0.65486844 0.35405749 0.96236248]`  
`[0.54061908 0.61394149 0.37239286 0.76821509]]`

[ ] `a=np.arange(5,20,5)`  
`print(a)`

[ ] [ 5 10 15]

[ ] `a=np.linspace(5,10,20)`

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```
[ ] a=np.linspace(5,10,20)
print(a)

[ ] [ 5.          5.26315789  5.52631579  5.78947368  6.05263158  6.31578947
  6.57894737  6.84210526  7.10526316  7.36842105  7.63157895  7.89473684
  8.15789474  8.42105263  8.68421053  8.94736842  9.21052632  9.47368421
  9.73684211 10.         ]

[ ] print(a.dtype)
print(a.size)
print(a.shape)

[ ] float64
20
(20,)
```

```
[ ] a=np.arange(10,50)
b=a.reshape(4,10)
print(b)

[ ] [[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 37 38 39]
 [40 41 42 43 44 45 46 47 48 49]]
```

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```
[ ] a=np.array([[1,2,3,4],[5,6,7,8]])
a[0,:]=0
print(a)

[[0 0 0 0]
 [5 6 7 8]]

[ ] a=np.array([[1,2,3,4],[5,6,7,8]])
a[:2,-2:]

array([[3, 4],
       [7, 8]])

[ ] a=np.array([10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25])
b=a.reshape(4,4)
print(b)
print(np.where(a%2==1))

[[10 11 12 13]
 [14 15 16 17]
 [18 19 20 21]
 [22 23 24 25]]
(array([ 1,  3,  5,  7,  9, 11, 13, 15]),)
```

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```
[ ] a=np.array([4,6])  
b=np.array([5,7])  
print(np.sum([a,b],axis=1))  
print(np.multiply(a,b))  
  
[ ] [10 12]  
[20 42]  
  
[ ] a=np.array([2,3,4,5])  
print(a**2)  
  
[ ] [ 4  9 16 25]  
  
[ ] a=np.random.random((2,3))  
print(a)  
print(np.mean(a))  
print(np.std(a))  
print(np.sum(a))  
  
[ ] [[0.65688894 0.07671109 0.40900549]  
[0.32681487 0.52898607 0.71619696]]  
0.4524339019626022  
0.2145020768658796  
2.714603411775613
```

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```
[ ] a=np.array([1,2,3,4,5,6,7,8,9])
b=a.reshape(3,3)
print(b)
print(np.max(a))
print(np.min(a))
```

```
[[1 2 3]
 [4 5 6]
 [7 8 9]]
9
1
```

```
[ ] a=np.identity(3)
print('3x3 matrix:')
print(a)
```

```
3x3 matrix:
[[1. 0. 0.]
 [0. 1. 0.]
 [0. 0. 1.]]
```

```
[ ] a=np.arange(1,10).reshape(3,3)
print(a)
```

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```
[ ] a=np.arange(1,10).reshape(3,3)
print(a)

[[ 1  2  3]
 [ 4  5  6]
 [ 7  8  9]]

[ ] a=np.random.randint(1,101,50)
print(a)

[54 15 49 88 95  7 86 58 58 28  6 39 99  2 87 77 45 58 51 90 46 63 51 39
 49 40 14 95 16 41 65 88 49 35 51 86 81 34 11 39 33 47 64 77 82 12 68 66
 48 64]

[ ] a=np.array([20,3,56,77,65,34,88,90])
b=a[a>50]
print(b)

[56 77 65 88 90]

[ ] a=np.array([[1,-5,3],[-4,-3,2]])
a[a<0]=0
print(a)
```

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```
[ ] a=np.array([[1,-5,3],[-4,-3,2]])
a[a<0]=0
print(a)
```

```
[[1 0 3]
 [0 0 2]]
```

```
[ ] a=np.array([3,-5,6,-7,-8])
a[a<0]=0
print(a)
```

```
[3 0 6 0 0]
```

```
[ ] a=np.arange(-10,6)
b=a.reshape(4,4)
print(b)
```

```
[[-10 -9 -8 -7]
 [-6 -5 -4 -3]
 [-2 -1 0 1]
 [ 2 3 4 5]]
```

```
[4] import numpy as np
a=np.arange(-11,5)
```

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```
[4] import numpy as np
a=np.arange(-11,5)
b=a.reshape(4,4)
print(b)
m=a>0
r=a[m]
print(r)
```

```
[[-11 -10 -9 -8]
 [-7 -6 -5 -4]
 [-3 -2 -1 0]
 [ 1 2 3 4]]
```

```
[8] a=np.array([1,2,3])
b=a.size
print(b)
c=np.array([[1,2,3],[4,5,6],[7,8,6]])
print(c)
```

```
3
[[1 2 3]
 [4 5 6]
 [7 8 6]]
```

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```
[10] a=np.array([[1,2,3],[5,6,7]])  
     b=np.array([3,4,5])  
     c=a+b  
     print(c)
```

```
[[ 4  6  8]  
 [ 8 10 12]]
```

✓ 0s

```
[14] a=np.random.randint(0,100,10)  
     print(a)
```

```
[42 56 83 35 47 33  4 41 19 81]
```

✓ 0s

```
[18] a=np.array([6,3,7,2,4,9,0])  
     print(np.sort(a))  
     print(np.sort(a)[::-1])
```

```
[0 2 3 4 6 7 9]  
 [9 7 6 4 3 2 0]
```

✓ 0s

```
[29] a=np.array([6,3,7,2,4,9])  
     b=np.searchsorted(a,6)
```

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0s [18] [0 2 3 4 6 7 9]  
[9 7 6 4 3 2 0]

[29] a=np.array([6,3,7,2,4,9])  
b=np.searchsorted(a,6)  
print(b)  
c=np.searchsorted(a,3,side='right')  
print(c)

5  
4

[40] a=np.array([3,2,4,5,6])  
b=np.sum(a%2==0)  
print(b)

3

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