

[illegible]

[illegible]

```
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,  
0.,  
0., 0., 0., 0.]])
```

```
np.ones(5)
```

```
array([1., 1., 1., 1., 1.])
```

```
np.ones((6,6))
```

```
array([[1., 1., 1., 1., 1., 1.],  
       [1., 1., 1., 1., 1., 1.],  
       [1., 1., 1., 1., 1., 1.],  
       [1., 1., 1., 1., 1., 1.],  
       [1., 1., 1., 1., 1., 1.],  
       [1., 1., 1., 1., 1., 1.]])
```

```
np.linspace(0, 10, 50)
```

```
array([ 0.          ,  0.20408163,  0.40816327,  0.6122449 ,  
 0.81632653,  
       1.02040816,  1.2244898 ,  1.42857143,  1.63265306,  
 1.83673469,  
       2.04081633,  2.24489796,  2.44897959,  2.65306122,  
 2.85714286,  
       3.06122449,  3.26530612,  3.46938776,  3.67346939,  
 3.87755102,  
       4.08163265,  4.28571429,  4.48979592,  4.69387755,  
 4.89795918,  
       5.10204082,  5.30612245,  5.51020408,  5.71428571,  
 5.91836735,  
       6.12244898,  6.32653061,  6.53061224,  6.73469388,  
 6.93877551,  
       7.14285714,  7.34693878,  7.55102041,  7.75510204,  
 7.95918367,  
       8.16326531,  8.36734694,  8.57142857,  8.7755102 ,  
 8.97959184,  
       9.18367347,  9.3877551 ,  9.59183673,  9.79591837,  
 10.          ])
```

```
np.eye(6)
```

```
array([[1., 0., 0., 0., 0., 0.],  
       [0., 1., 0., 0., 0., 0.],  
       [0., 0., 1., 0., 0., 0.],  
       [0., 0., 0., 1., 0., 0.],  
       [0., 0., 0., 0., 1., 0.],  
       [0., 0., 0., 0., 0., 1.]])
```

```
np.random.rand(4)
```

```
array([0.87289478, 0.74283328, 0.97224232, 0.850615  ])
```

```
np.random.rand(5,5)
```

```
array([[0.33870412, 0.10892286, 0.56060127, 0.51846572, 0.14418842],  
       [0.46907048, 0.05892831, 0.99003238, 0.53467372, 0.59327844],  
       [0.5458029 , 0.91349114, 0.42557242, 0.69050554, 0.42246354],  
       [0.15873504, 0.58978816, 0.87354962, 0.43670845, 0.43423606],  
       [0.83485201, 0.74666339, 0.01859538, 0.37801877, 0.72411184]])
```

```
arr = np.random.randint(1,100,10)
```

```
print(arr)
```

```
[40 98 17 13  1 63 18  6 17 37]
```