In [1]:
```python
import numpy as np
```

In [17]:
```python
l1=[4,1,3,5]
ar1=np.array(l1)
print(ar1)
print(type(ar1))
```

```
[4 1 3 5]
<class 'numpy.ndarray'>
```

In [18]:
```python
print(ar1.shape)
```

```
(4,)
```

In [32]:
```python
print(ar1[2])
print(ar1[0])
```

```
3
4
```

In [21]:
```python
print(ar1.reshape(1,4))
print(ar1.reshape(4,1))
```

```
[[4 1 3 5]]
[[4]
 [1]
 [3]
 [5]]
```

In [23]:
```python
ar2=ar1.reshape(1,4)
ar3=ar1.reshape(4,1)
print(ar2.shape)
print(ar3.shape)
```

```
(1, 4)
(4, 1)
```

In [26]:
```python
l2=[3,2,1]
l3=[6,5,4]
l4=[9,8,7]
ar4=np.array([l2,l3,l4])
print(type(ar4))
print(ar4)
print(ar4.shape)
```

```
<class 'numpy.ndarray'>
[[3 2 1]
 [6 5 4]
 [9 8 7]]
(3, 3)
```

In [28]:
```python
print(ar4.reshape(1,9))
print(ar4.reshape(9,1))
```

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

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

In [ ]: