In [1]:

In [2]:
```
import numpy as np
```

In [3]:
```
#Create a NumPy array with the following values: [1, 2, 3, 4, 5].
```

In [4]:
```
a = np.array([1,2,3,4,5])
```

In [5]:
```
print(a)
```

```
[1 2 3 4 5]
```

In [6]:
```
#Print the shape of the array using the .shape attribute.
```

In [7]:
```
print(a.shape)
```

```
(5,)
```

In [8]:
```
#Reshape the array into a 2D array with 2 rows and 3 columns.
```

In [9]:
```
arr_2d = a.reshape(2, 3)
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[9], line 1
----> 1 arr_2d = a.reshape(2, 3)

ValueError: cannot reshape array of size 5 into shape (2,3)
```

In [10]:
```
arr = np.array([1,2,3,4,5,6])
```

In [11]:
```
arr_2d = arr.reshape(2, 3)
```

In [12]:
```
print(arr_2d)
```

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

In [13]:
```
#Print the shape of the new array.
```

In [14]:
```
print(arr.shape)
```

```
(6,)
```

In [15]:
```
#Create a second NumPy array with the following values: [6, 7, 8, 9, 10].
```

In [16]:
```
b = np.array([6,7,8,9,10,11])
```

In [17]:
```
#Concatenate the two arrays together horizontally.
```

In [18]:
```
arr_concat = np.concatenate((arr.reshape(2,3), b.reshape(2,3)), axis=1)
```

In [19]:
```
#Print the resulting array.
```

In [20]:
```
print(arr_concat)
```

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

In [21]:
```
#Compute the resulting array's mean, median, and standard deviation.
```

In [22]:
```
mean = np.mean(arr_concat)
median = np.median(arr_concat)
std = np.std(arr_concat)
```

In [23]:
```
print(mean)
print(median)
print(std)
```

```
6.0
6.0
3.0276503540974917
```

In [ ]:
```

```