**NUMPY ARRAY SEARCH:**

**import numpy as np**

**arr = np.array([1, 2, 3, 4, 5, 4, 4])**

**x = np.where(arr == 4)**

**print(x)**



**import numpy as np**

**arr = np.array([1, 2, 3, 4, 5, 6, 7, 8])**

**x = np.where(arr%2 == 0)**

**print(x)**



**import numpy as np**

**arr = np.array([1, 2, 3, 4, 5, 6, 7, 8])**

**x = np.where(arr%2 == 1)**

**print(x)**



**#The number 7 should be inserted on index 1 to remain the sort order.**

**#The method starts the search from the left and returns the first index where the number 7 is no longer larger than the next value.**

**import numpy as np**

**arr = np.array([6, 7, 18, 19])**

**x = np.searchsorted(arr,11)**

**print(x)**



**import numpy as np**

**arr = np.array([6, 7, 18, 29])**

**x = np.searchsorted(arr, 19, side='right')**

**print(x)**



**import numpy as np**

**arr = np.array([1, 3, 5, 7])**

**x = np.searchsorted(arr, [2, 4, 6])**

**print(x)**

