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In [1]: #Binary search with sort out
#sort out
objects=[3, 6, 5, 100, 101, 110, 115, 114]
objects.sort()
print(objects)
# define binary search
def binary_search(objects,item):
    l=0
    u=len(objects)-1

    while l<=u:
        mid_point=(l+u)//2
        mid_value=objects[mid_point]
        if mid_value==item:
            return mid_point
        elif item<mid_value:
            u=mid_point-1
        else:
            l=mid_point+1
    return false
item=101
print(binary_search(objects,item))

[3, 5, 6, 100, 101, 110, 114, 115]
4
```

In []:

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