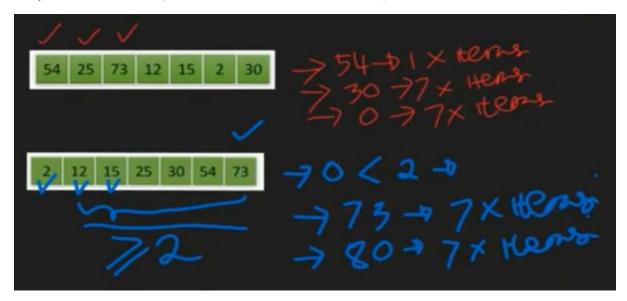
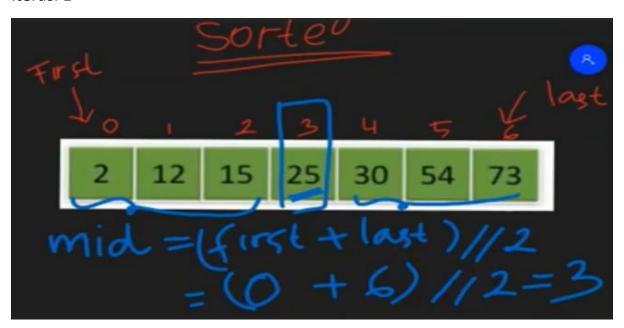
Sequensial Search: (unordered & ordered search)

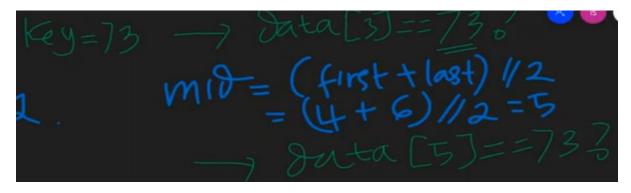


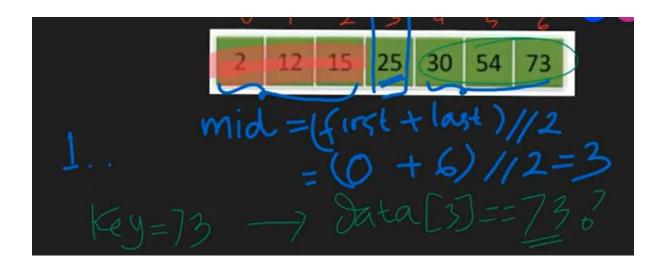
Binary Search

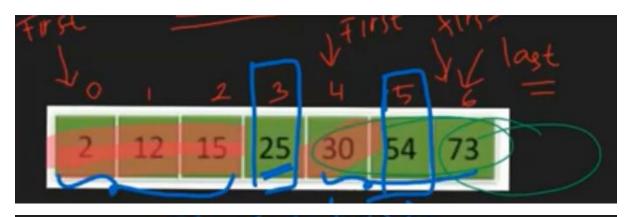
Iterasi 1

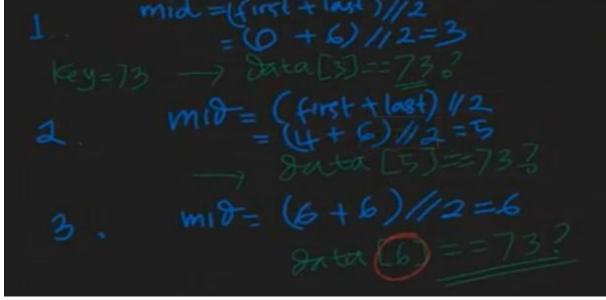


Iterasi 2



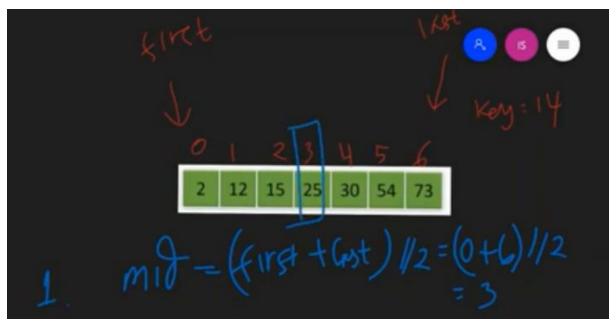


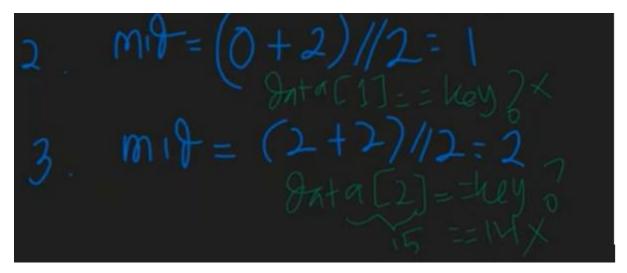


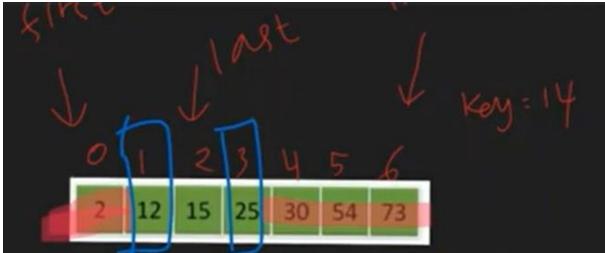


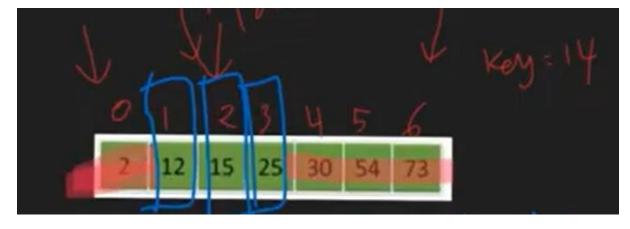
Dalam contoh ini, utk mlakukn pcarian 73 maka binary search mbutuhkn 3x iterasi sdgkan pd ordered sequensial search mbutuhkn 7x iterasi

## Contoh search lainnya (data di sebelah kiri middle atau data tdk ada)

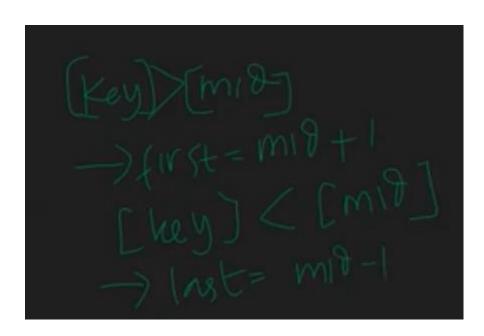


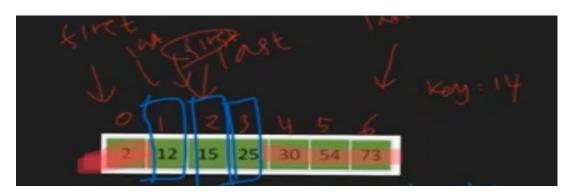




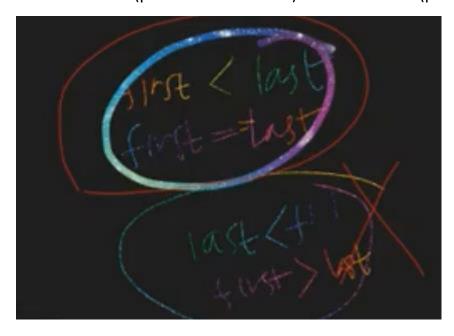


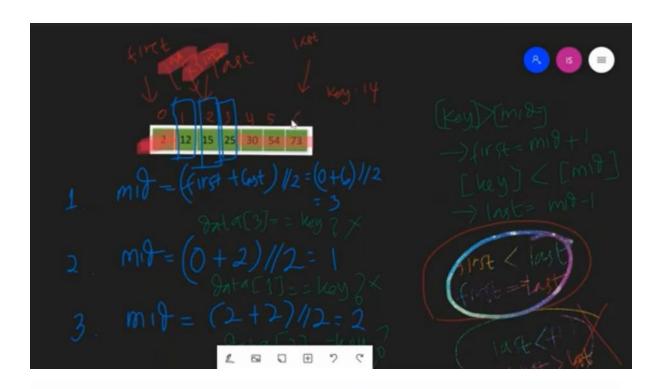
Setting dilakukan jika





Kondisi normal (pencarian dilakukan) & tidak normal (pencarian berhenti)





## **Binary Search**

```
In [ ]: M def binSearch(listData,key):
                found=False
                first=0
                last=len(listData)-1
                while first<=last and not(found):
                    mid=(first+last)//2
                    if listData[mid]==key:
                        found=True
                        ind=mid
                    elif key>listData[mid]:
                        first=mid+1
                    elif key<listData[mid]:
                        last=mid-1 T
                if found:
                    return ind
                else:
                    return False
```

## **Binary Search**

```
In [10]: M a=[2,12,15,25,30,54,73]
binSearch(a,14)
counter= 3
```