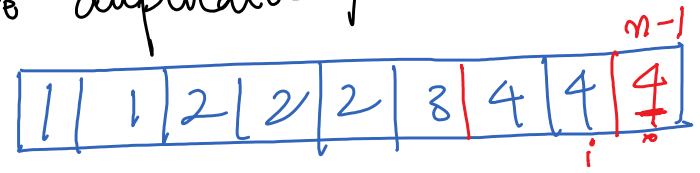
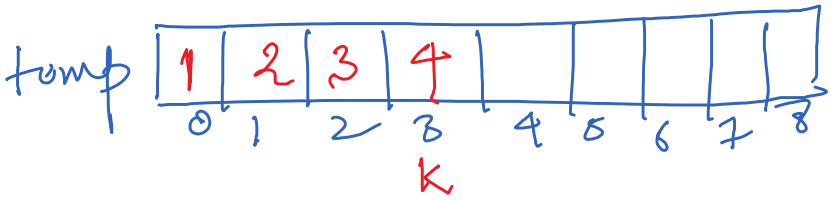
Session 2

27 July 2021 11:00

* Remove duplicates from a sorted array:

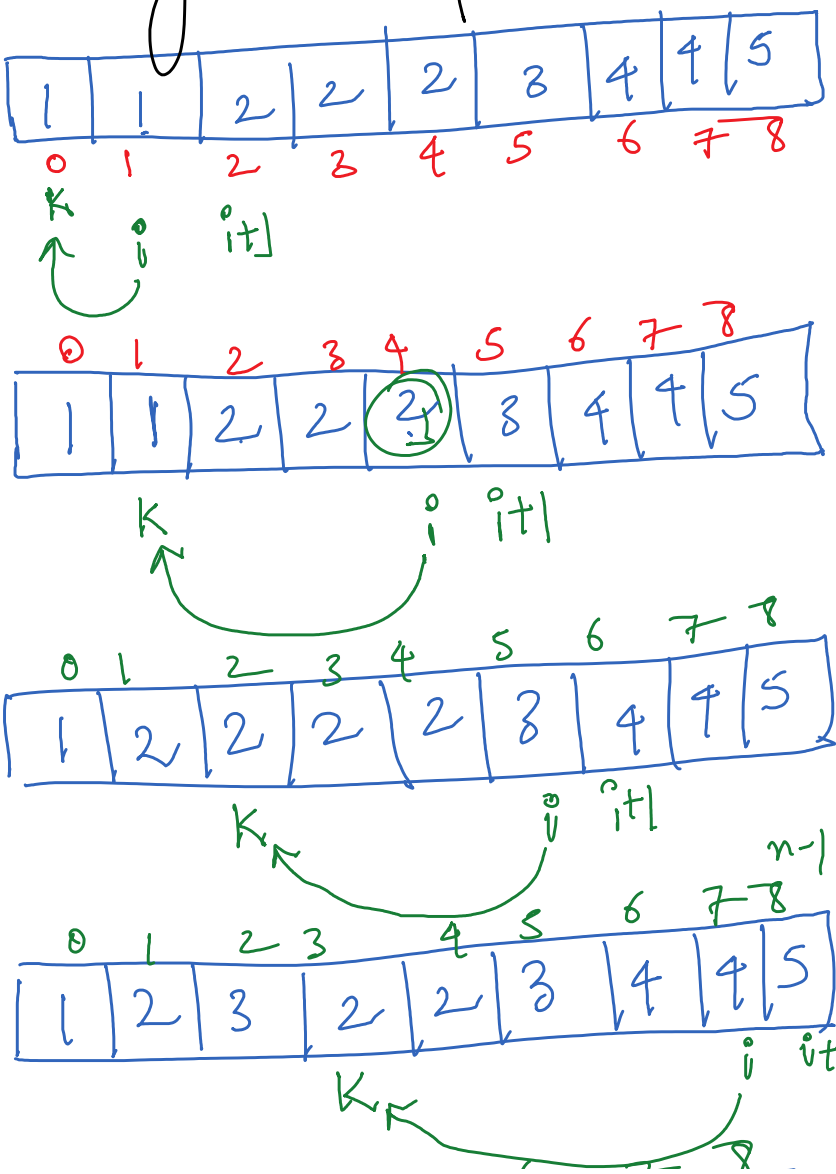


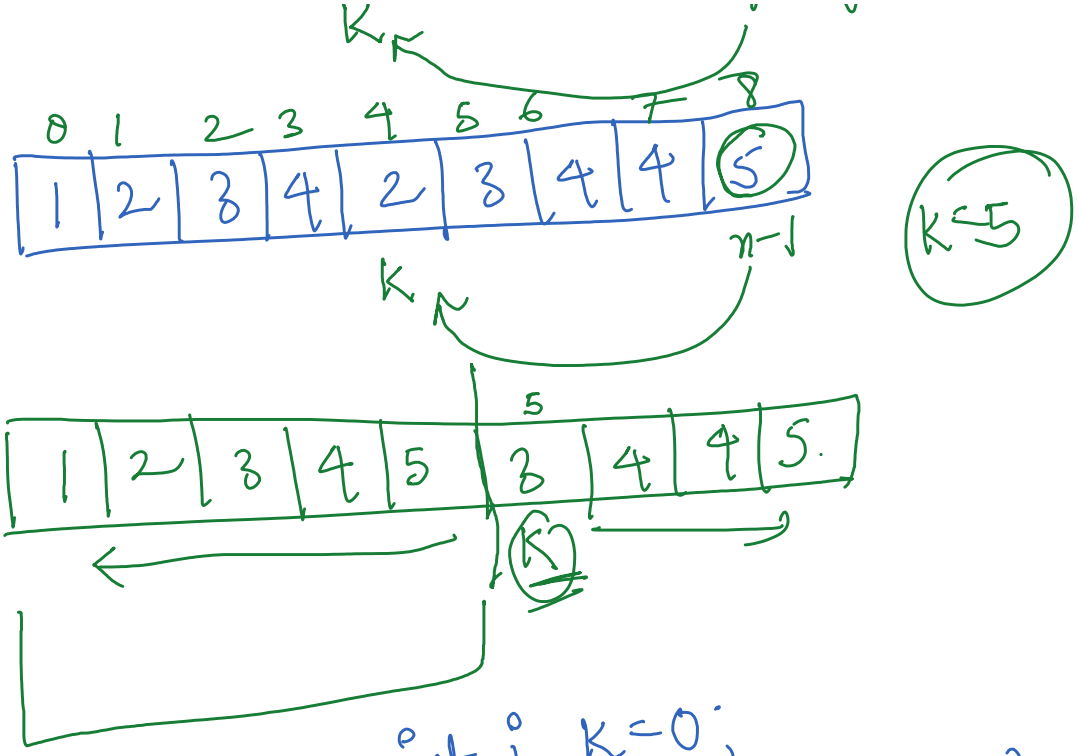


Time Complexity : O(n)

Space Complexity : O(n)

* Without using extra space.



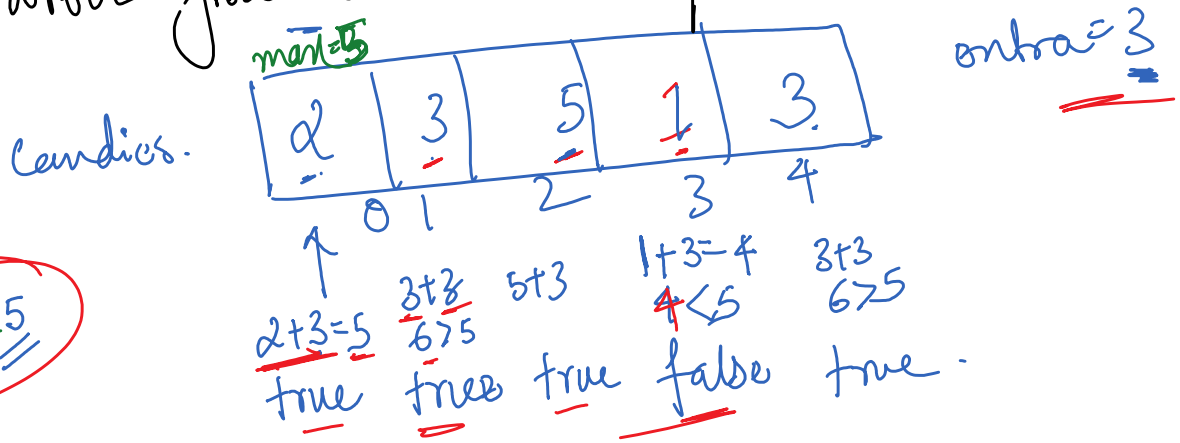



```
int i, K=0;
for(i=0; i<n-1; i++)
{
    if(A[i] != A[i+1])
    { A[K] = A[i]
      K++;
    }
}
A[K] = A[n-1]
K++;
```

Time Complexity : O(n)

Space Complexity : O(1)

* Kids with greatest number of candies.



max=5

```
int max = A[0];
for(i = 1; i<n; i++)
{
    if (A[i] > max)
        max = A[i];
}
for(i=0; i<n; i++)
{
    if (A[i] + extra >= max)
        print true;
    else
        print false;
}
```