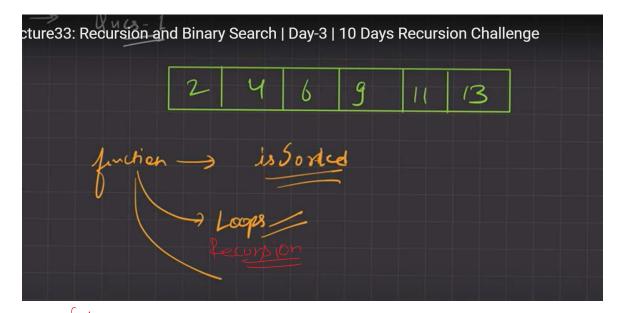
Ø

check is Array is sooted or not



bool is Sorted (int air [], int rise)

| box care

if (rize = 0 | size = 1)

return true;

if (air [0] > arr [1]) //rorted als he gave then

of the bool arr = a orded aret

```
#include<iostream>
using namespace std;

bool isSorted(int *arr, int size) {

//base case
if(size == 0 || size == 1 ){
    return true;
}

if(arr[0] > arr[1])
    return false;
else {
    bool remainingPart = isSorted(arr + 1, size - 1 );
    return remainingPart;
}

int main() {

int arr[5] = {2,4,6,8,9};
int size = 5;

bool ans = isSorted(arr, size);

if(ans){
```

077 4

4:0 get sum &

365931211

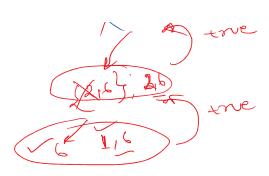
906°-

linear Searchs

12375

array: - key ele ment = 6

CXY Y
int arr[5]= [3]5 [1]2 [6.] rewint size = 5; key = 2; bool ans = linear search (arr, size, key) Rase case Agar Array khali ho gapa and element rahi mila hai of (size == 0) return false;
else return Erve; else remaining part = linear search bood - remaining remaining return remaining gart gart
$\frac{3 5 }{2} = 8$ $\frac{5}{3} = \frac{1}{2} = \frac{1}{2}$ $\frac{5}{3} = \frac{1}{2} = \frac{1}{2}$
5 3/5 (26) 3/5 (26) 5/72e. 1 26,5,4,6 1 27,6 1 3,6 1 2



if 6 the jugah eight hotato.

the Binary search of thone charine tray sortal mone charine 2 3 4 5 10 19/16. mid = 0+5 = 2 ->6.

A>mid.

 $mld 3 + 5 = 4 \rightarrow (14)$

19 = = 12 5 return mid

 $\frac{2}{2|4|6|10|19|18}$ $\frac{0+5}{2|4|6|10|19|18}$ $\frac{0+5}{2|4|6|10|19|18}$ $\frac{0+5}{2|4|6|10|49}$ $\frac{1}{2}$ $\frac{1}{2}$ #

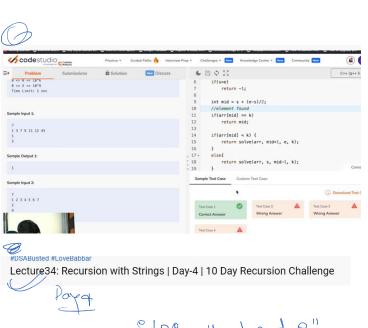
ef (arr[mid] < ker)

Search Right wate half me.

else search karo left vale half me

search in right half c=mid+1 search in left haft C=mid-L binary search (arr, start, end, key)

binary (arr, mid+1, end, kep) Right



elpe "abcde"

offe "babbar"

offe "sabbab"

Rdcba (n-1)

if (sto. leoth ==0) return.

reverse (i,j, str).

Thase case



Those case

If (isj)

returns,

Swap (s[i], s[i])

itt;

ji--

edcbarelase Read.

queze check palindrome &

string: Abba.

reverse string = a bb B.

bool check palindrom (string slr, int i, int j)

{

N Rase Case.

Place case.

If (17)

return true:

return false

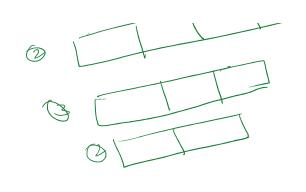
return false

// Recursive call

else return checkpalindron (slr, 1+1, 1+1);



```
erane, 0, naeclength()-1); eranestering i become now/pathorn to represent the rest a following to the pathorn 
       Que 3 9/P
                                                                   29 > 2×24×29 > 2×(24)2.
                                                                                                                                                                                                                                           4 \rightarrow 2^2 \times 2^2 \rightarrow (2^2)^2
                                                                                                                                                                                                                                                                                                                2^2 = 2 \times 2 \Rightarrow (2)^2
                                                                                                                                                                                                                                                                3 \times 243 \times 243 \times 243 = 0
3 \times 243 \times 243 \times 243 = 0
3 \times 243 \times 243 \times 243 = 0
3 \times 243 \times 243 \times 243 = 0
                                                                                                                                                                                                                                                                                                                                      3×3×9 = 243
                                                                                                                                                                                                                                                                                           3X3=9
# Bubble Sorti
                                                               kound eth - largest (Right Place)
                                                                                                                                                                                                                                                                                                                                                             pase case
                                                                                                                                                                                                                                                                                                                                                  of size == 0 11 size == 1
                                                                                                                                                                                                                                                                                                                                                                                                                 return;
                                                                  0
```



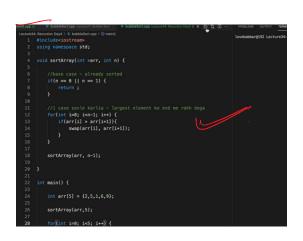
sorted return;

for (int i=0; ixn; i+t)

ff (arr[i]> arr[it])

Suap(arr[i], arr[it])

Suap(arr[i], arr[it])



MQ'- Buttle sort
insertion & selection
sort using

Recursion