int main 154 1. char name [100]; cout «"Enter your Name"≪ endl; cin >> name; cout « "Aapka noam "« name « " hai" « end); return o;

}

Stratuo :

Enter your Name Aapka name: Yourname hai

chan name [100];

	bla	b	b	alx	10		11	
--	-----	---	---	-----	----	--	----	--

100 blocks

cin>>namu;

by default

Null character 10

1 etring term Lostring termination

chan name [100]; cin>name; for (int i=0; i<7; i++) { wut «"index: " «i «"value: " « name [i] «cral; z

```
authut
          value: b
index: 0
        value: a
indux: 1
       value: b
index: 2
          value: b
index: 3
index: 4
          value: a
indux:5 value: 8
index: 6
        value: 10
After that - garbage value
 1 char away ouate:
 1 jull name store bro
 1 print
                            Love Balban
  chan ann[100];
  cin>> aur;
   cout & am;
                           2 Input
                              Love
                              Balban
                           3 input
                              Loui Babbar
                              output
                                Low
 To solve this issue we 'getline()'.}
  getline (cin, ann);
```

can choose our delimator.

1 Length of string

chan name [100];

cin >> name;

2 3 5 5 0 am null chr

int getlength (char name[]){

int length =0;
int i = 0;
while (name [i] ! = 10) }

length + +;

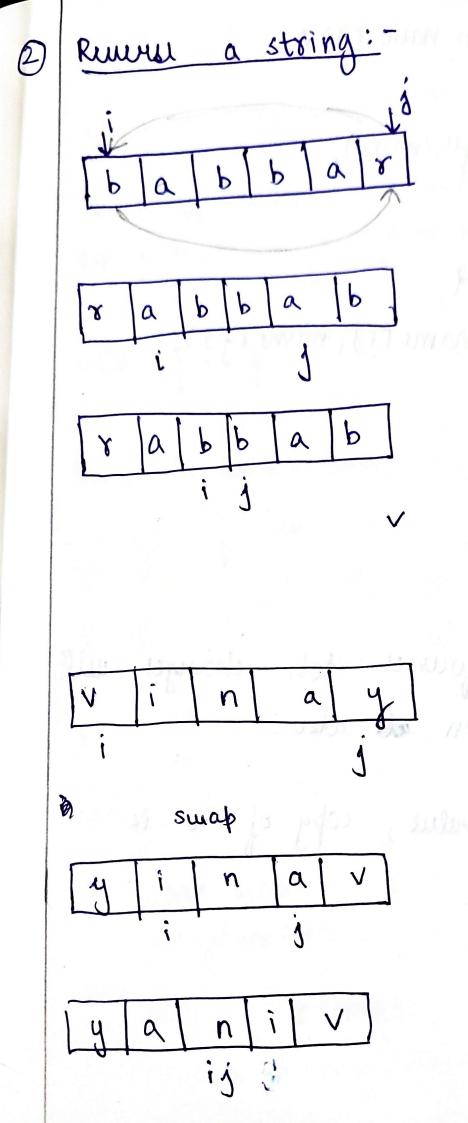
î++;

return ungth

f

Not:

streen(name) for length of string de ho skta hai.



```
int i=0

int n=getlength(name);

int j = n-1;

while (i <= j){

swap (name (i), name (j));

i++;

j--;
```

f

Array is possely reference to changes will sestain in function in also.

vector is pass by value, copy of it is created.

$$T.C = O(n)$$

```
Replace all spaces:-
                       space -> @
ip - My name is
                          Ram
OIP -> My @ name @ is @ Ram
void replaces paces (chan sentence []{
           int i=0;
           int n = strien (sentence);
           for (int i=0, i<n; i++){
                    if (sentana ciz== "")1
                          sentana (7)='@';
            3
 int main(){
       char sentence [100];
       cin. getline (sentana, 100);
       replacespaces (sentence);
        cout «"printing sentence" « sentence « end!;
   return o;
```

0 (n)

0(1)

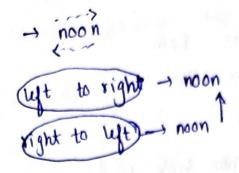
T. L:

S.C:

9

very important Question;

Palindrome: -



2 pointer approach

"words pritting" > too

$$(i=) == (j=n-1)$$
?

$$(i=1) == (j=n-2)?$$

$$(i=2) = = (j=n-3)?$$

```
check Palindromi (chan word []) {
pool
        int i=0;
        int n = strlen (word);
         int j = n-1;
      while ci <= j) 1
                if (mosq [i] i = mord [i]) {
          return falu
               elud = 1110 -1110
                        j--;
          return true; (100) = programme and
 int main() {
             avy[100] = " Babbab";
        char
 CHO
        cout ( checkPalindrome (arr);
    returno;
 3
 T.c. = O(n)
 s.c. = oci)
```

```
Convert into UpperCau
 ($)
            babbar hard made) immerable
                 "BABBAK"
code: void convertinto Upper Care (chan arm []){
               int n = strun; avr);
      Ĉ
                for cint 1=0; i <n; i++){
                   arij= arij -'a'+'A', (-65+97) = 32
    Time complexity = O(n)
                   = 0(1)
     Space
                   " Boddog " = [ODITHUR Rod
                  cout << checklolundrome (aux)
                  for
                       lower (au
    Convert
                 10 wer Case
    (P) \rightarrow BABBAK
                        (0/P)→ babbay
    void convert into Lower (an (chur arr []) (
             int n = strleng (arr);
              for (int i=0; i<n; i++){
                  a [i] = a [i] - 'A' + 'a';
     }
```

```
· Do not clave about size.
  It is a datatype, similar to vector
  int main 1) {
      string str;
      getline (cin, str); Low Babban
      cout « str;
      roturn 0;
  }
· Str. length () -> For length
· str. empty() → To check
· str. push-back ('A'); -> Love BabbanA
· str. pop-back (); -> Low Babban
· str. suletr(0,6) « andl -> Love B
          (1, 3)
                     -> ove
'if ca.compare (b) = = 0)
```

M.W To implement compare junch.

```
bool comparestring (string a, string b) (
          if (a. length())=b. length())
                   return falu;
          etu l
                //int 1=0;
                 for lint i=0; i<a. length(); i++)1
                       if cacili= prill(
                                  return freu
      return true
T.C = O(n)
String x = " bbcd";
string y = "bcda";
cout & x.comparu(y) « end);
return o;
```

```
string sentena = "hello Jee kaise no saare";
  string target = "hello";
  cout « sentince find(target);
 0/9
  if (centence. find (tanget) == std:: string:: npos){
             cout « "Not found " « cnas;
                                              not found.
· Replace()
        str = "This is my First Message";
 string word= "Babbar"; Omn
 str. replace (0, 4, word)
 cout « str « end);
```

019 Babbar is my First Musage

· Erau():-

string str = "ABCDEFGHIGJ"; str. urau(0,4); cout & str;

EFGHIGJ ABCDEFGHI