NVLL chardel 7 na nish Ascii value D char ch[10]; cin77ch 11 Manush Kasels Cout<< ch 11 Manush cin-getline (ch, length, deliméter):
optional

## Important Questions

- (1) Trime space.
- (11) Reverse word wish
- (iii) All substring
- (IV) Dane print (Try Kd skhe ho)
- @ sprial print (mg) e/
- commen smy.

abc de f ghi

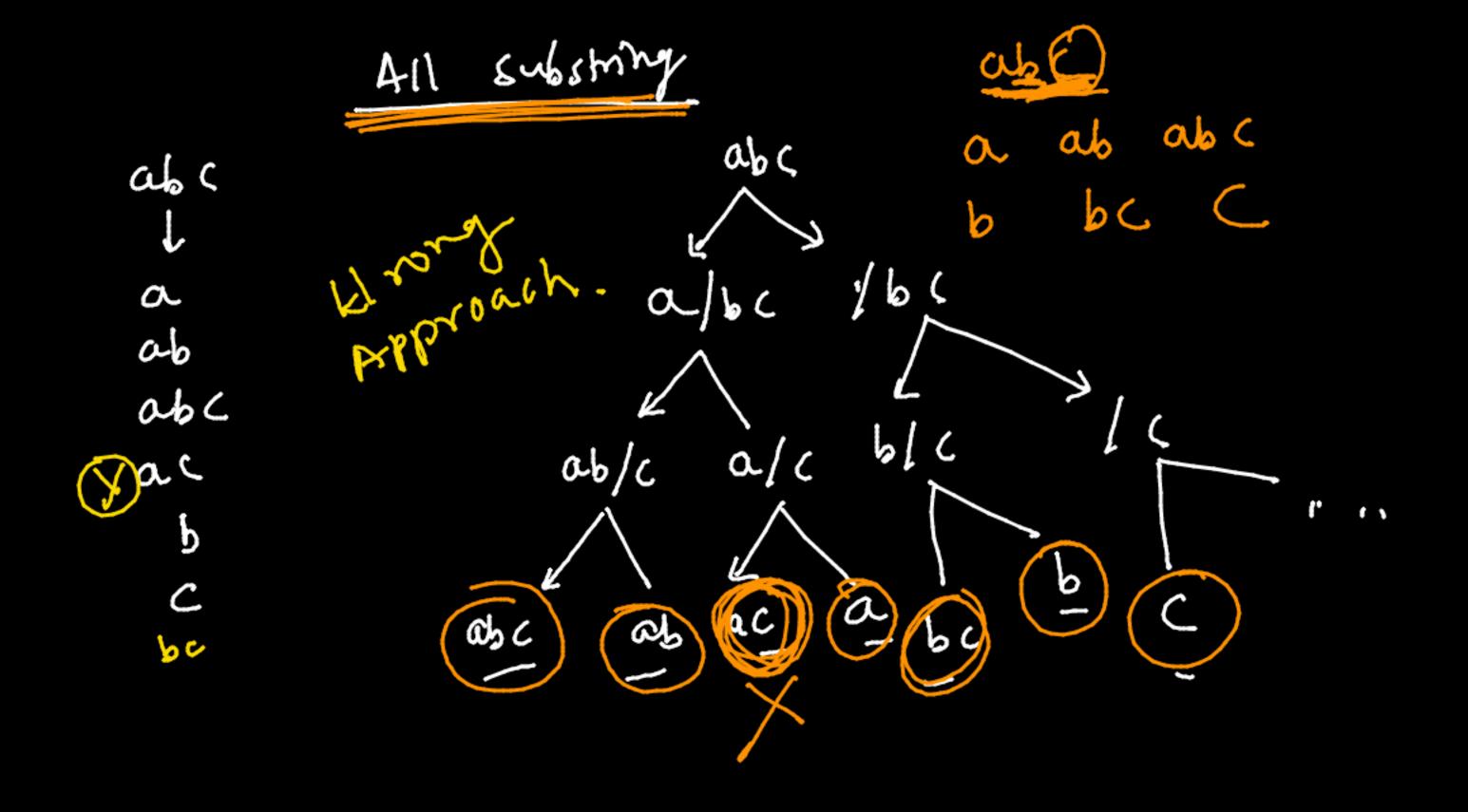
ab ( defghi

int j=D

for (sati=0; i<shlen(input); itt)

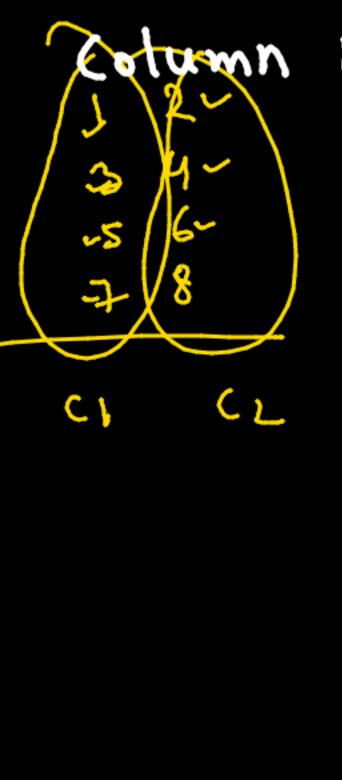
2 input GJ = input Cij;

imput じコニハロン



All substan copy sind into a shorge abcd for (int i=0; i< strken(s); i++) int len=1; while (len < n-i) cont << s. substy (i, len); Lenttj

42



#### Wise Sum

C, 7 11 } Am

for (int i=0; i < col; itt)

1 int sum=0; (row; itt)

for (int j=0; j < row; itt)

Sum = arreijeij

### Check Permutation

apple

int hash[128]= 209; まか(nutico:icn)itt) hash [SH[i]] ++; for link 1=0;1 <n2;i++) has [str[i]] --; for (int i = 0; 128 i ity) if La harriszog ochuntmuc; repros Exper.

Remove Conscalling n= sklen(skr); Start = 10: end=1; while ( start < n 4 end (n) abcba if (str[stast] == st-[end]) intizend; festionlish); itt)
for (infizend; festionlish); itt) s-jaabcc,baa else str[ent] = str[ent t]; stutttj end+t;

abicada abcdag ab cdà à of cd alo

```
int stutt=0, ent=L, n=strlen (str);
while (stret (n dd end (n)
   if (str[strut] = = str[end])
    < int i= ent;
      for (: i(n; i++)
         smeij= smeit]
      str[1] = 1/0 1.
        shettt;
       end ++;
```

#### Lorgest Row or Column

```
Wave Print
Column
                                                                                                                                                                                                                                                           for (int j=0; j< col; j++)
                                                                                                                                                                                                                                                                                                  for (int i=0; i<row; i++)
                                                                                                                                                                                                                                                                                                                                                        if (j%2==0)
                                                                                                                                                                                                                                                                                                                                                                                                                                   cont << arritio tij;
                                                                                                                                                                                                                                                                                                                                                                            else
                                                                                                                                                                                                                                                                                                                                                                                                               Cout << arr ( arr
```

# Sprid Print (Must Imp)



top=0, down= row-1 teft=0, right=col-1; twio

```
dir.D
             while (top < down is left < right)
                if (dir == 0)
                    for (int j=left; jsnighttjjtt)
dir=9
                            cout << input [top] (j);
dir
                    和十十十
           ope it (TL==1)
                  for (Luff = pob; i < gap; 141)
                   in [their ] (i) they >> that
                   かりんトーー
```

```
elseif (dr==2)
 for Cit j= right; j> / left; j--)
  out << Nort [ open ] []] << ";
    Parliti=qon: 12=toli--)
           cont << input [i) [luft] << ';
```

Compress string claaxxppdsa a3 x 2p 2 dsa cont-1 int start =0, end =1, string s="; while (start < n di end < n) a3x2Pd if ( input [stat] == input [end]) count++; end++; 5 t= input [stut]; end=end+1 sx(on+>1) street zend; s= s + to string (w);