Good String Checker

i=2, ch = 'C'

i=3, ch = 'd'

idx = 2

idx = 3

0 = xbi

 $id\alpha = 3$

i=7, ch='d'

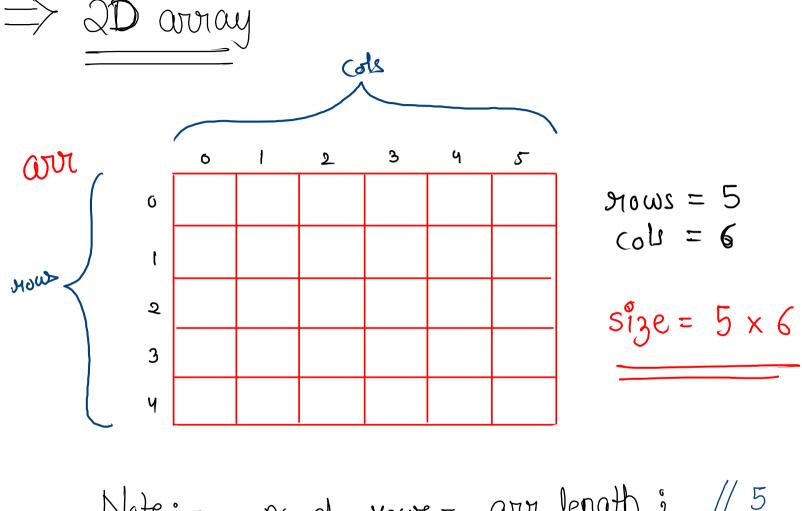
ch = str.choorAt(0); } constant time val = frog [ch - 'a']; str="abcdchad" for (int i=0; ix freq. length; i7+) { if (freg [i] 1 = val) s return false;

travasing on freq array to check

```
public static boolean goodStringChecker(String str) {
     int[] freq = new int[26];
  for (int i = 0; i < str.length(); i++) {
    char ch = str.charAt(i);
    int idx = ch - 'a';
    freq[idx]++;
}</pre>
     char ch1 = str.charAt(0);
     int idx1 = ch1 - 'a';
  if ( freq[i] != 0 && freq[i] != val ) {
    return false;
}
     return true;
```

traversing on string to check

```
public static boolean goodStringChecker(String str) {
    int[] freq = new int[26];
  for (int i = 0; i < str.length(); i++) {
   char ch = str.charAt(i);
   int idx = ch - 'a';
   freq[idx]++;</pre>
                                                        T.C = O(n)
S.C = O(1)
    char ch1 = str.charAt(0);
    int idx1 = ch1 - 'a';
    int val = freq[idx1];
    for (int i = 0; i < str.length(); i++) {
        char ch = str.charAt(i);
        int idx = ch - 'a';
       if ( freq[idx] != val ) {
         return false;
    return true;
```



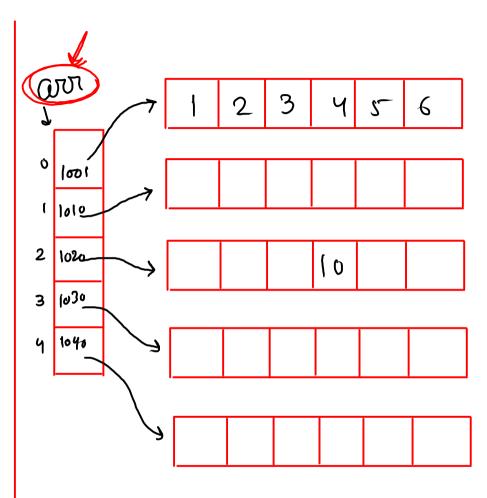
Note:- no. of nows = avr. length;
$$\frac{1}{5}$$

no. of cols = avr. length; $\frac{1}{6}$

fun fact

WU	1 0	1	2	3	ч	5
G	1	2	ტ	7	b	6
t						
ઘ				16		
3						
Ч						

no. of hoxes = 5×6 = 30



> how to access an index in 2d wordy

$$\frac{0007}{0007} = 0 \quad \frac{1}{1} \quad \frac{2}{2} \quad \frac{3}{3} \quad \frac{4}{3} \quad \frac{5}{6}$$

$$\frac{1}{1} \quad \frac{7}{4} \quad \frac{8}{1} \quad \frac{9}{10} \quad \frac{10}{11} \quad \frac{12}{12}$$

$$\frac{2}{13} \quad \frac{14}{15} \quad \frac{15}{16} \quad \frac{17}{16} \quad \frac{18}{17}$$

$$\frac{3}{19} \quad \frac{19}{20} \quad \frac{20}{21} \quad \frac{22}{22} \quad \frac{23}{24} \quad \frac{24}{12}$$

$$\frac{25}{12} \quad \frac{26}{12} \quad \frac{27}{12} \quad \frac{28}{12} \quad \frac{29}{12} \quad \frac{3}{30}$$

int
$$x = \text{QUI}[2][3]$$

How index col index

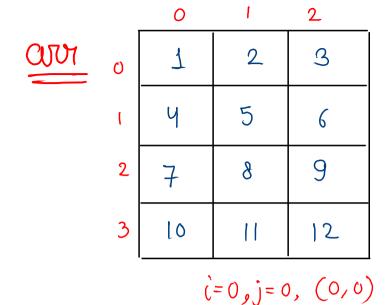
update value of 16 to 32

Traverse in 20 avoicy

	0	1	2
O	1	2	3)
ι	7	CI	6
2	7	8	9
3	lo	П	12

public static void main(String[] args) {
 Scanner scn = new Scanner(System.in);
 int rows = scn.nextInt();
 int cols = scn.nextInt();
 int[][] arr = new int[rows][cols];
 for (int i = 0; i < rows; i++) {
 for (int j = 0; j < cols; j++) {
 arr[i][j] = scn.nextInt();
 }
 printMatrix(arr, rows, cols);
}

public static void printMatrix(int[][] arr, int rows, int cols) {
 for (int i = 0; i < rows; i++) {
 for (int j = 0; j < cols; j++) {
 System.out.print(arr[i][j] + " ");
 }
 System.out.println();
 }
}</pre>



T. (:-() (nows * cols)

:-O(w*v)

$$j = 1, (0,1)$$

$$j = 2, (0,2)$$

$$i = 1, j = 0, (1,0)$$

$$j = 1, (1,1)$$

$$j = 2, (1,2)$$

$$i = 2, j = 0, (2,0)$$

$$j = 1, (2,1)$$

$$j = 2, (2,2)$$

$$i = 3, j = 0, (3,0)$$

$$j = 1, (3,1)$$

j=2, (3,2)

linear: we are visiting every element once

quad: - we are visiting every element for every element