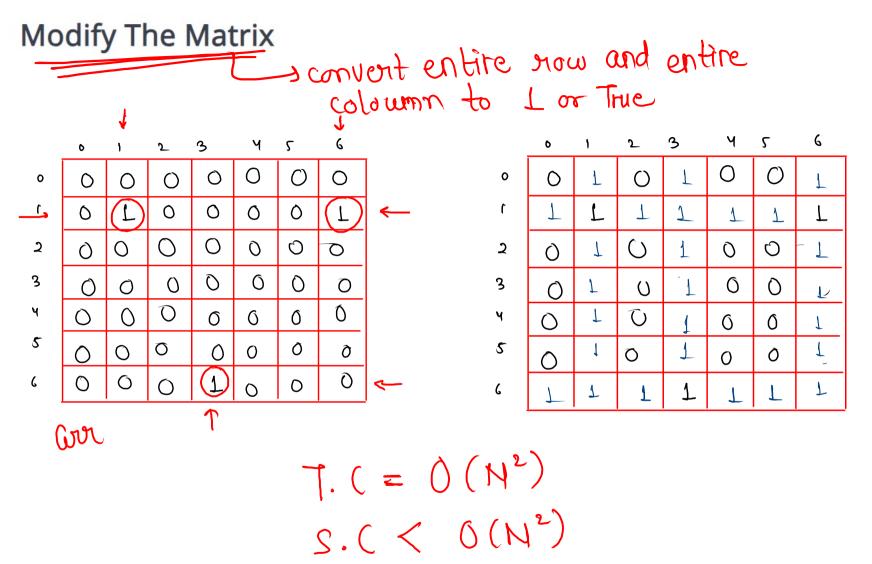
formula

Convert 10 to 20: now = idx/col_size;

col = idx/. col_size;

Convert 2D to 1D: idx = now + col-size + cal;



approch out of

			(6)	J	'	_	9	٦	١.	
	0	707		0	L	0	1	٥	0	T
w				0		<u>~</u>	31	ч	٢	6
0	G		0	0	0	0	φ	0	0	Q
١	1	=		Ó		0	0	0	0	<u>(T)</u>
2	0		2	0	0	0	ф	0	O	0
3	0		3	0	0	0	Ø	0	0	0
Ч	0		ч	0	0	Ō	σ	G	0	Q
5	0		5	0	0	O	O	0	0	ð
6	1		-6	0	Ó	O	1	0	0	0

3D → mxu

$$S_{\circ}(=0(m+n)$$

Is create LD average of m size and nsize traverse in 2D average $\int \text{Now}[i] = 1 \quad \text{Shodowing}$ $\text{Col}[i] = 1 \quad \text{J} \text{ shodowing}$



```
public static void modifyMatrix(int[][] arr, int m, int n) {
 → int[] row = new int[m]; // O(m)
→ int[] col = new int[n]; // O(n)
  <u>__</u>for (int i = 0; i < m; i++) {
 for (int j = 0; j < n; j++) {

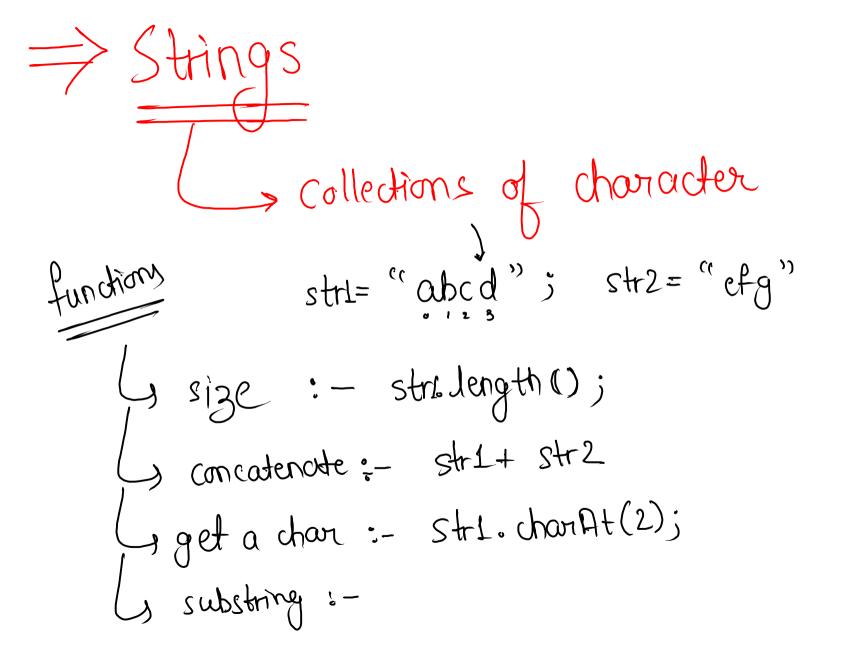
if (arr[i][j] == 1) {

row[i] = 1;

col[j] = 1;
}
  __for (int i = 0; i < m; i++) {
for (int j = 0; j < n; j++) {

if (row[i] == 1 || col[j] == 1) {

arr[i][j] = 1;
}
                                                          we
                                                         data
                                                   4 5
        now
              2
                          2
              3
                                                   0
                                         0
                                         O
             5
                         5
                                        O
                                   d
             6
                         6
```



-> Substring // return a string str = "abcdef"; str. substring (start-ida, end-index+L); str. substring (0,7)/krror str. substring (0,4) // abcd str-substring (2,5) 11 cde str. substring (start_idnx);

str. substring (0,5) // abode str. substring (4) // ef str. substring (0,6) // abode str. substring (2) // cdef

Print Characters

```
code
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.next();
    for (int i = 0; i < str.length(); i++) {
        System.out.println( str.charAt(i) );
    }
}</pre>
```

whenever you ave comparing 2 string, never ever we ==, what to use then;

str1. equals (str2);

Is Equal?

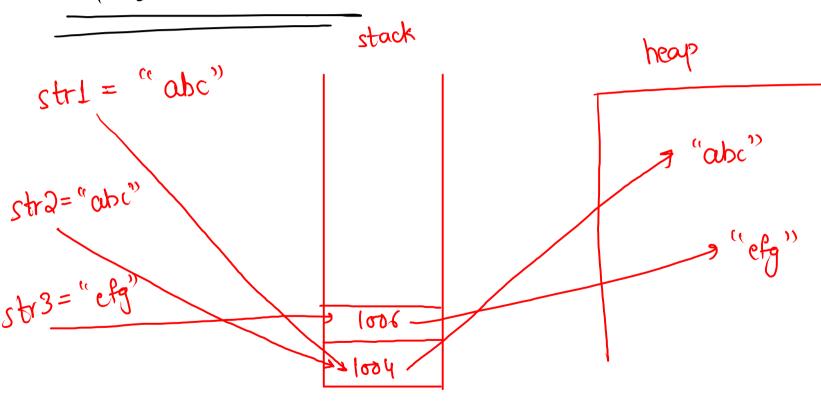
```
1) length should be equal for both
2) all characters at ith idx should be
     cq ual
                   public static void main(String[] args) {
                       Scanner scn = new Scanner(System.in);
                       String str1 = scn.nextLine();
                       String str2 = scn.nextLine();
                       if ( str1.length() == str2.length() ) {
                           for ( int i = 0; i < str1.length(); i++ ) {
                                if ( str1.charAt(i) != str2.charAt(i) ) {
                                    System.out.println(false);
                                    return;
                            System.out.println(true);
                           return;
                       } else {
                           System.out.println(false);
                           return;
```

expiring is immutable

2 level arch.

stack

heap



compares address and equal compare value