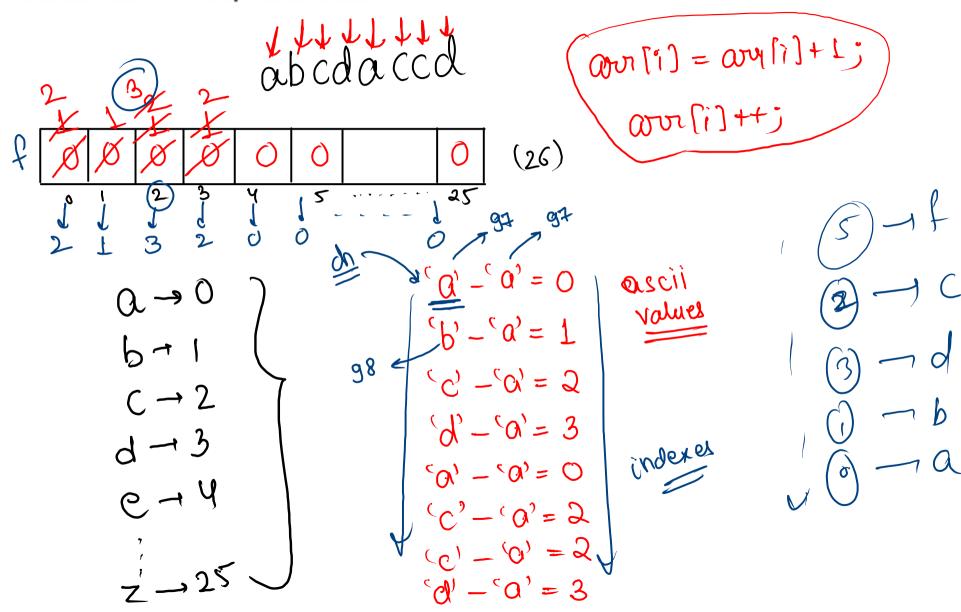
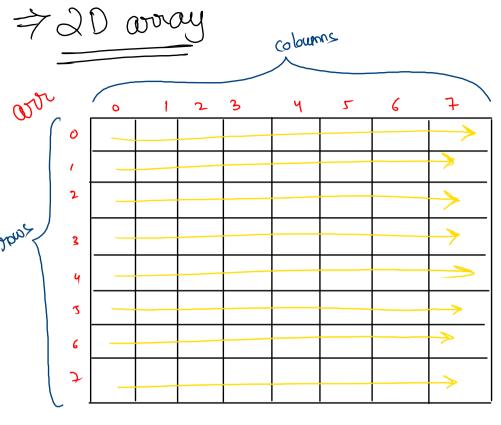
## Maximum Freq Character



```
public static void maxFreq(String str) {
       int[] freq = new int[26]; // because we have only 26 characters to count
       for (int i = 0; i < str.length(); i++) {
            char ch = str.charAt(i);
            int idx = ch - 'a';
                                                            T.C = O(n+26)
                                                          = 0(n)
where, m is length of str
       freq[idx] = freq[idx] + 1;
// freq[idx]++;
       int maxFreq = -1;
       int idx = -1;
for (int i = 0; i < 26; i++) {
   int f = freq[i];
   if ( f > maxFreq ) {
      maxFreq = f;
      idx = i;
   }
}
                                                             S.C = O(26)
\cong O(1)
      2 + 97 = 99 = C
char ans = (char)(idx + 'a');
System.out.println(ans).
```



declare:-

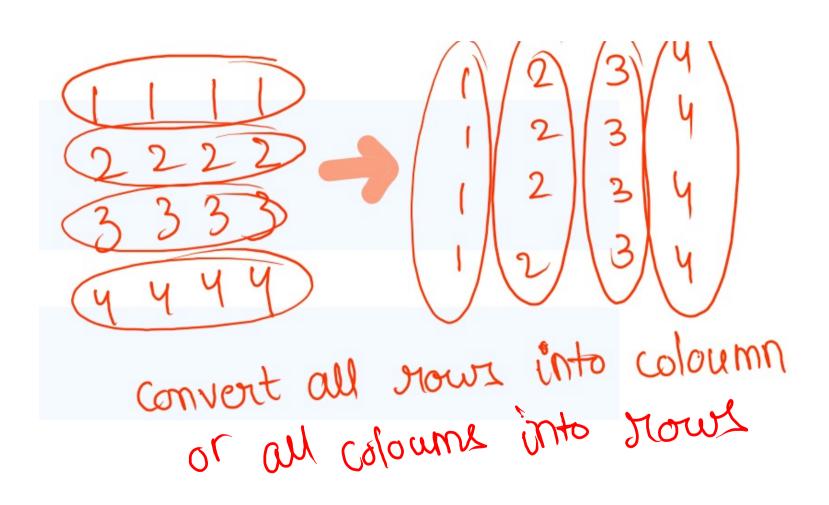
datatype[][] arozname = new datatype[910ms][col];

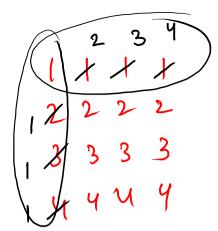
int[][] our = new int[n][n];

no. of nows = over length; no. of col = over[0]. length; for (int i=0; i< own.length; i++) & For (int j=0;  $j < \infty$  (o). length; j+1) {

Syso(  $\infty$  [i][j]);

## Transpose of Matrix of N\*N





```
public static void transpose(int[][] arr, int n) {
    for (int i = 0; i < n; i++) {
        for (int j = 0; j < i; j++) {
            int temp = arr[i][j];
            arr[i][j] = arr[j][i];
            arr[j][i] = temp;
    for (int i = 0; i < n; i++) {
        for (int j = 0; j < n; j++) {
            System.out.print(arr[i][j] + " ");
        System.out.println();
```

grynun diagnal part is constant