## Merge Strings Alternatively

```
strl= "Kunal"

strl= "Banti"
```

ans = "KBuannatli"

```
Code
```

```
T. (= ()(N)
```

## where N is strl.len + str2.len

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str1 = scn.nextLine();
    String str2 = scn.nextLine();
    System.out.println(mergeString(str1, str2));
}
public static String mergeString(String str1, String str2) {
    int i = 0;
    int j = 0;
    String ans = "";
    while ( i < str1.length() && j < str2.length() ) {</pre>
        ans = ans + strl.charAt(i);
        j++;
        ans = ans + str2.charAt(j);
    return ans;
```

## Long Pressed Name

Observations

Is each char of str should be there in target I and also should be in same order

str= "ale"x str = " alex " target = "aalear" if charati == charatj itt , jtt else

Psudo 1) initialize i pointer at 0 and j pointer at 0 2) loop until j < tor. length 2.1) if charati == charati

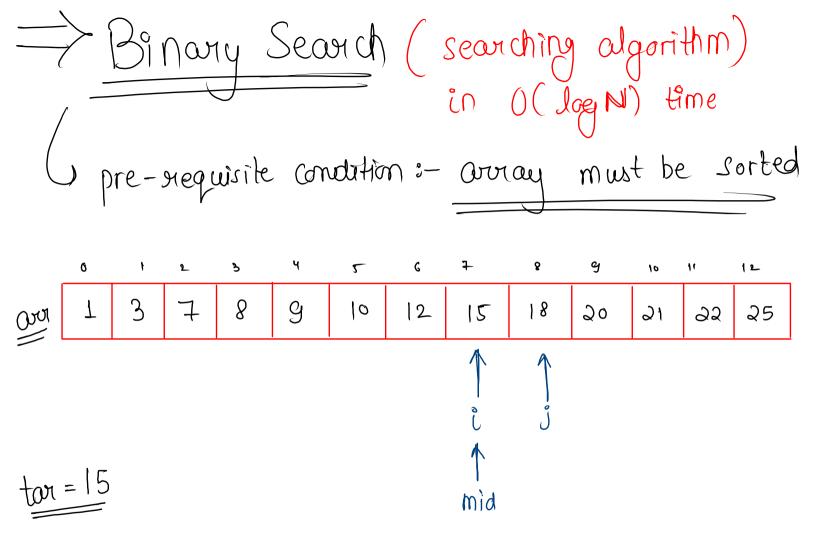
2.2) else if char at j != char at (j-1)

Meturn false

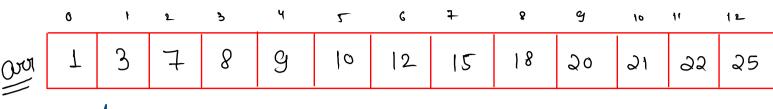
str = "alex"
target = "aaleexabc" ter = "unaall"



```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    String target = scn.nextLine();
    System.out.println(longPressed(str, target));
public static boolean longPressed(String str, String tar) {
    int i = 0;
    int j = 0;
    while ( j < tar.length() ) {</pre>
      if ( i < str.length() && str.charAt(i) == tar.charAt(j) ) {
   i++;
} else if ( j == 0 || tar.charAt(j) != tar.charAt(j - 1) ) {
    return false;
}</pre>
                                                                                     str= "rajvee" false
tor= "raajvee"
    if (i == str.length())
         return true;
    else
         return false;
```



int i=0, j=n-1; while (i <= j) ? mid = (i+j)/2;if (tar == over[mid]) { return true; I dose if ( tar < over[mid]) { j= mid-1; j else { i = mid+1 3



return false;

Why 
$$T.Col_{\frac{B.S}{m}}$$
 is  $log(N)$ 

$$N + \frac{N}{2} + \frac{N}{4} + \frac{N}{8} + \frac{N}{16} + \dots + 1 = \log(N)$$

Taylor's eq.