$0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5$   $0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5$ 

x=4 yelm 4

NZP

experta idx = 0 idx = 2

2 41

11x2 2

0 1 2 3 4 5 15 11 4 40 4 9 4

n = 4

E iJx = 0 iJx = 1

4

Findex = Paim (idexf)

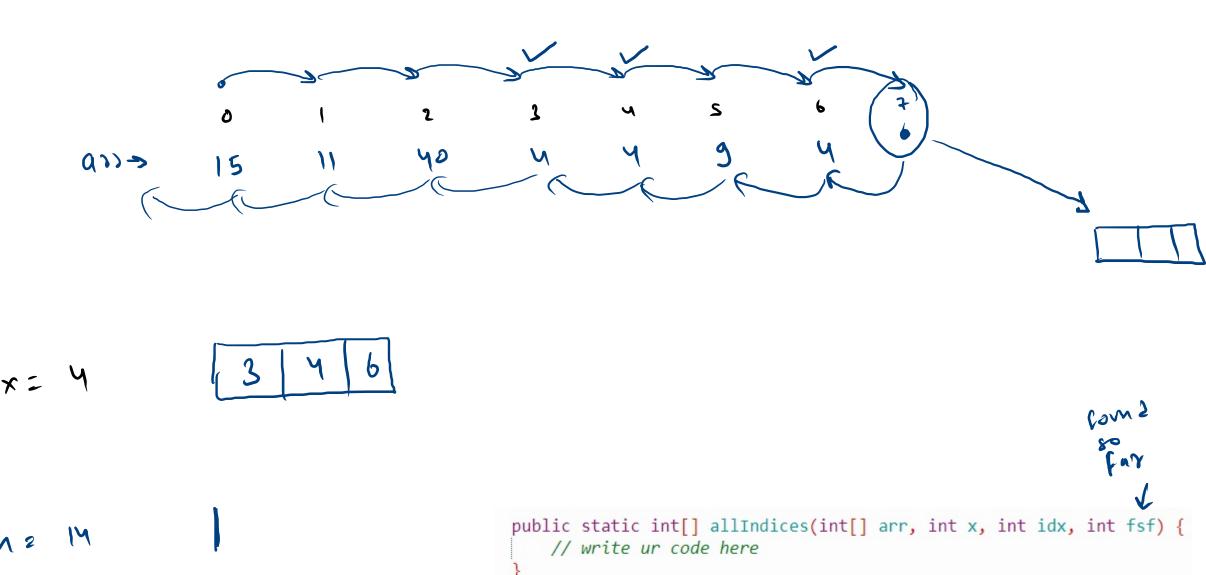
it (findex != -1) {

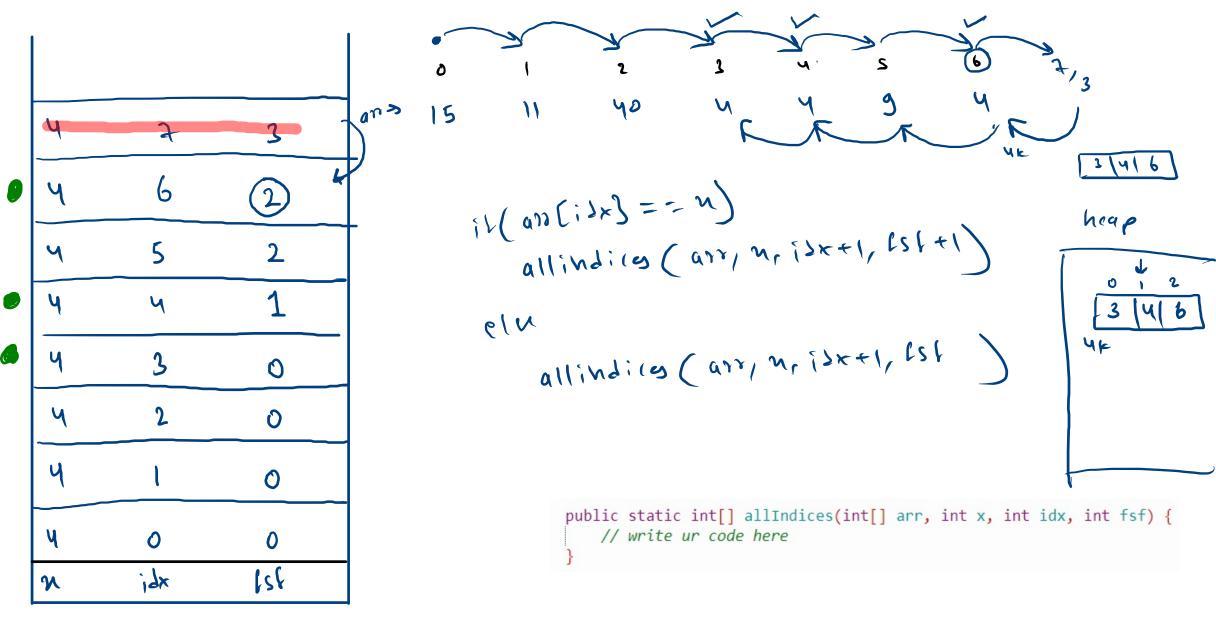
rem cindex;

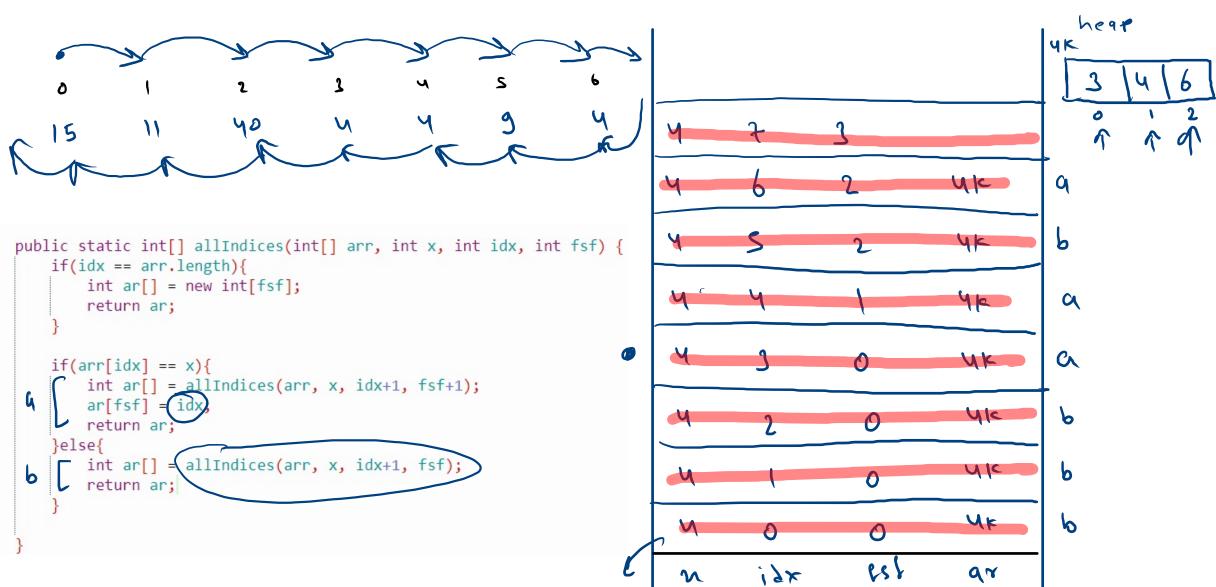
Jelse {
 il ( an ( 1) x 3 = = N)
 return 13 x
 else -1;

મુ

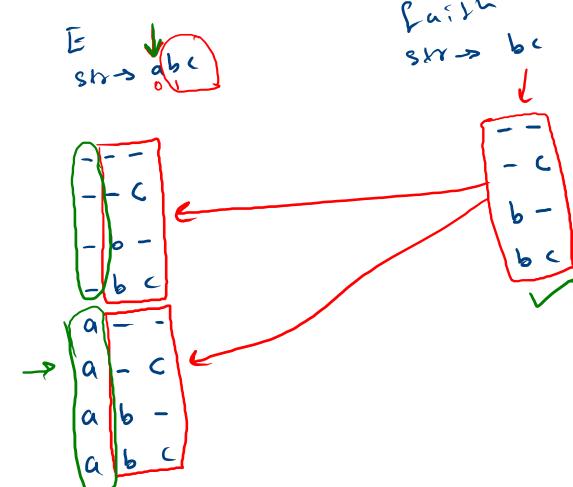
```
public static int lastIndex(int[] arr, int idx, int x){
   if(idx == arr.length)return -1;
 ♠ int findex = lastIndex(arr, idx+1, x);
   if(findex != -1){
       return findex;
   }else{
      if(arr[idx] == x){
           return idx;
       }else{
           return -1;
                                                                                                  9
                                                                                                 Ch
                                                                                                  CA
                                                                  0
                                                                                   Cinzex
                                                                  19*
                                                                            ×
```







sh-> abc



"c",
"b",
"hc",

7

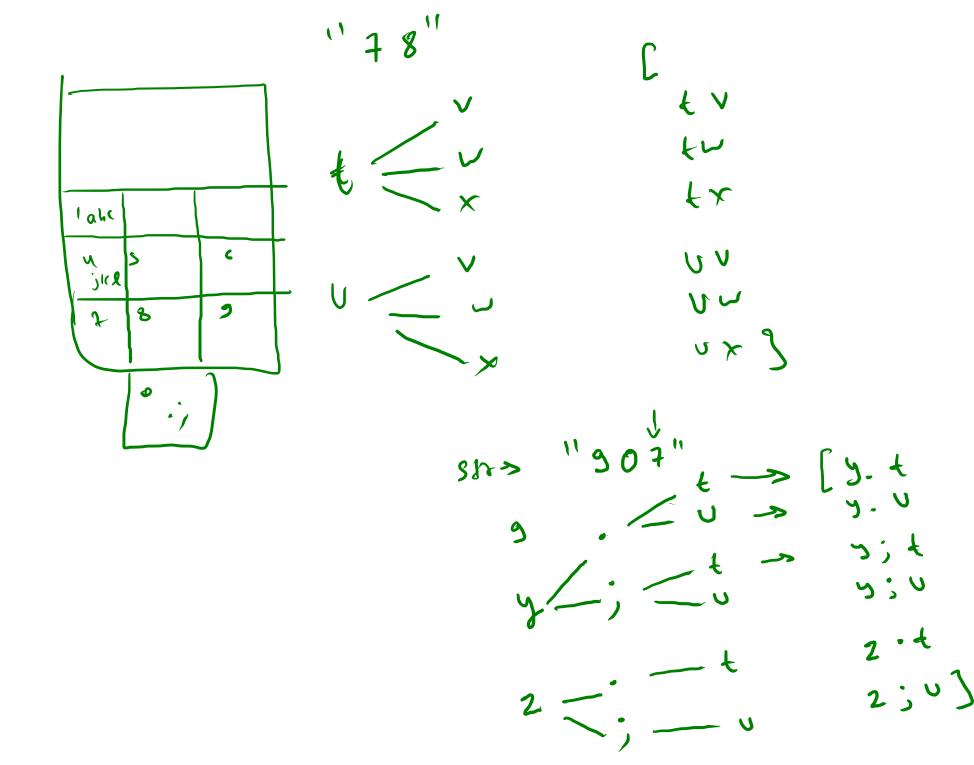
```
public static void main(String[] args) throws Exception {
      Scanner scn = new Scanner(System.in);
      String str = scn.nextLine();
      ArrayList<String> list = gss(str);
      System.out.println(list);
public static ArrayList<String> gss(String str) {
   if(str.length() == 0){
       ArrayList<String> myAns = new ArrayList<String>();
       myAns.add("");
       return myAns;
   String fstr = str.substring(1);
   ArrayList<String> fans = gss(fstr);
 ArrayList<String> myAns = new ArrayList<String>();
   for(String s: fans){
       myAns.add(s)
   char ch = str.charAt(0);
   for(String s: fans){
       myAns.add(chrs);
```

return myAns;

```
11 11
   E. my
    "a", "ac", "ab", "ab"
```

0 -> .; 1 -> abc 2 -> def 3 -> ghi 4 -> jkl 5 -> mno 6 -> pqrs 7 -> tu 8 -> vwx

9 -> yz



		11
	sh>	" 3

07

2	->	def
3	->	ghi
4	->	jkl

1 -> abc

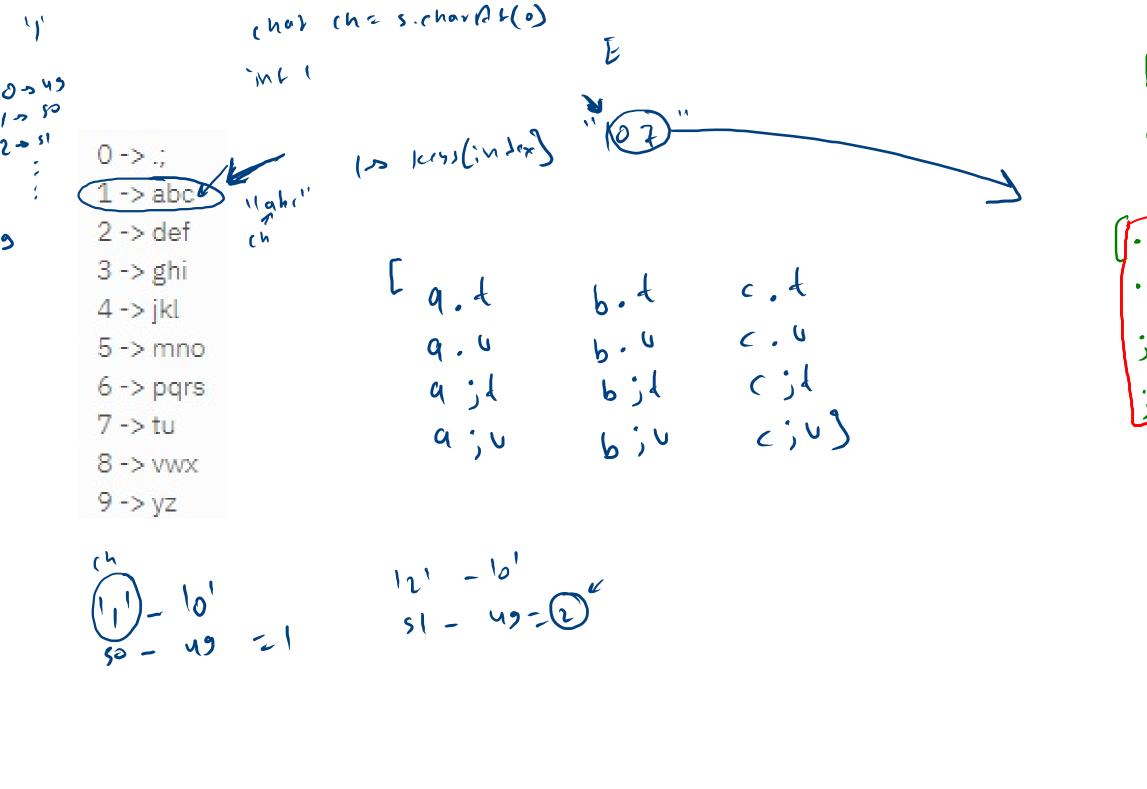
0 -> .;

E	- 30	array.	In the
<b>3</b>	1		

9 -> yz

			<u> </u>
ahe			
( )( <b>!</b>	5	د	
7	8	9	3; t
	• • • • • • • • • • • • • • • • • • • •		2 . 4
		J	2.0
			2; 4
			2 ' 0

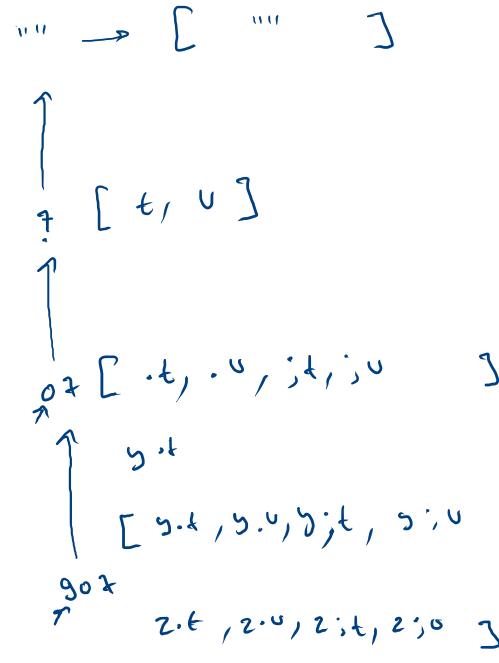


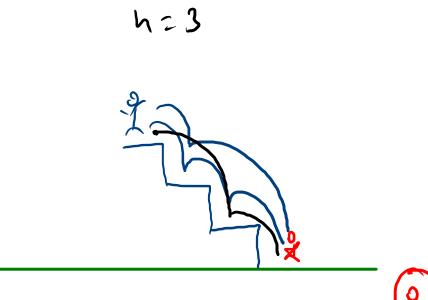


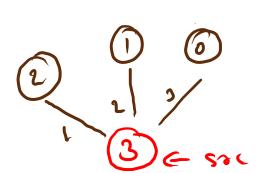
```
public static ArrayList<String> getKPC(String str) {
    String fstr = str.substring(1);
    ArrayList<String> fans = getKPC(fstr);

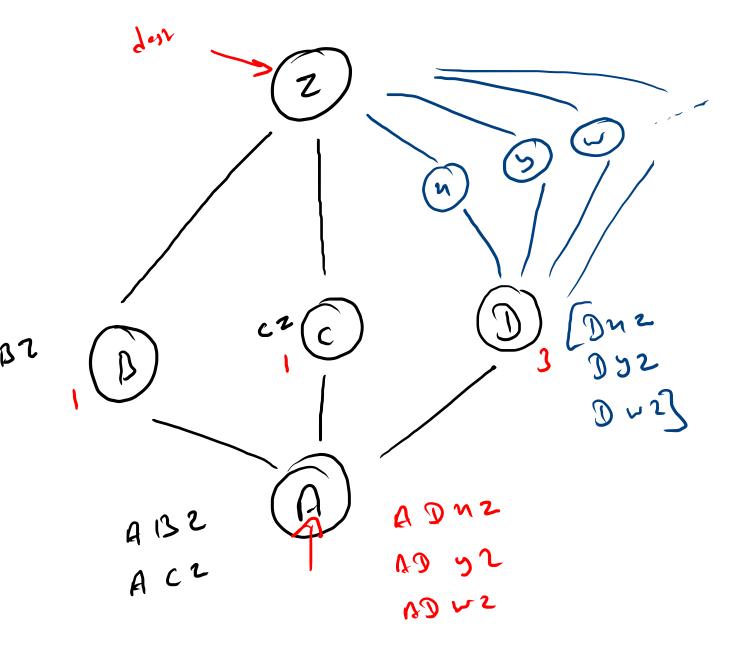
    ArrayList<String> myAns = ArrayList<String>();
    int index = s.charAt(0)-'0';
    String code = keys[index]; "')2"
    for(int i=0;i<code.length();i++){
        char ch = code.charAt(i); 4.2

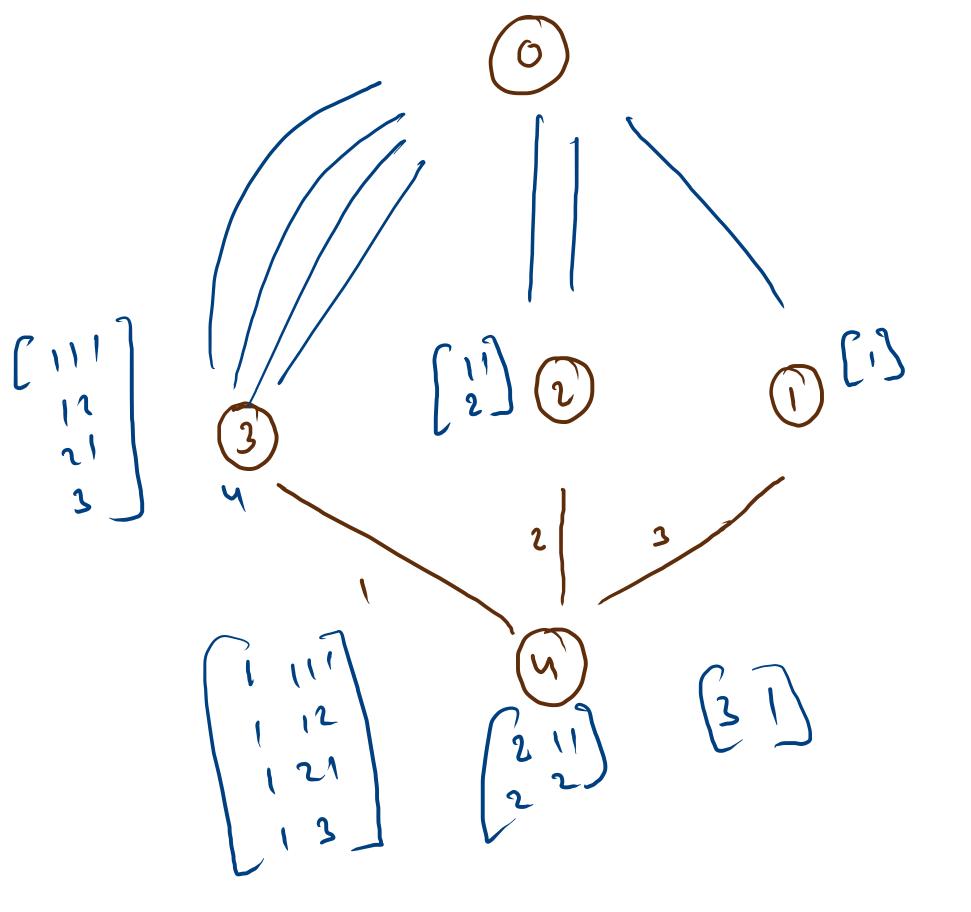
        for(String s: fans){
            myAns.add(ch+s);
        }
        return myAns;
}</pre>
```











```
ArrayList<String> ans = new ArrayList<String>();
 • if(n-1 >= 0){
      ArrayList<String> one = getStairPaths(n-1);
      for(String s: one){
          ans.add("1"+s);
  \inf(n-2 >= 0){
       ArrayList<String> two = getStairPaths(n-2);
       for(String s: two){
          ans.add(2+s);
   if(n-3>=0){
       ArrayList<String> three = getStairPaths(n-3);
      for(String s: three){
          ans.add(3+s);
   return ans;
```

