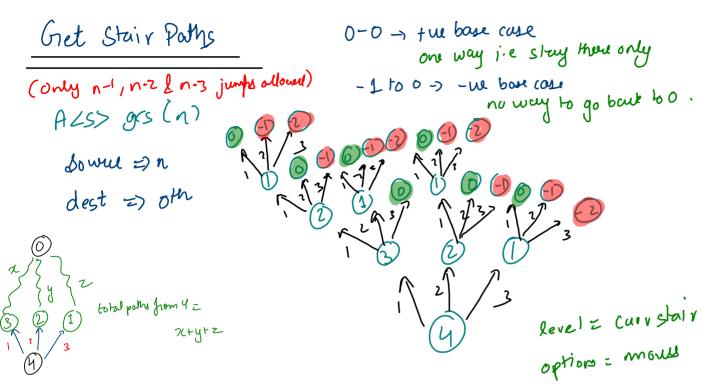
```
Remaion With Array lists & Get Variation }
                                                                                                                                                                                                          Recursion tree levels & code/fune
                                                                                                                                                                                                                                                                                                                                            parmeter
                                                                                      $10,20,30,404 level -> Item/No
                                                                                                                                                                                options > include / exclude
                                                                                                      ALS> goss(idx1011) ~ Expectation
                                                                                                    A LST getSS(idx+1,901) / faith (idx+1 bound clements
                                                                                                                                                                                                                                                                           will fill an arraylist of
                                                                                                                                                                                                                                                                            their subsels I then return
                                                                                                                                                   Simply array will also have one wolf of subset i.e empty array Isting itself to lower level

Simply array level = 40 gets s
                        Here, we are
                      applying yes and
                                                                                                                                                                                                                                                                                                                 level = 40 guts s(idx+1)
                     no call for each
                    element in a
                                                                                                                              level= 30 getSS(idx+1)
                     single loop-
       To maintain order
                                                                                                             { "20,20,40", "30,40", "20,40", "11,10" { 10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40", "10,40"
                                                                                                                                                                                                                                                                                                                        level=20 getss(id*H)
       as given in ques
    Apply 2 Roops
First for "NO" {" | 0 20 30 40", " 20 30 40", " 10 30 40", " 20 40", " 20 40", " 10 40", " 40", " 10 20 30", " (all " " 20 20") " 10 20", " 10 40", " 40", " 40", " 10 20 30", " (all " " 20 20") " 10 20", " 10 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40", " 40"
                                                                                                                                                                                                                                                                                                                                   level=10 getss(idst)
                                                                                               11 20 30", 11 10 30", 130", 110 20", 120 1, 110", 111/
                                                                                           In gets, the smallest problem will lie in the bose case.

and largest on the level 0 /main method/
                                                                                                                                                                                                                                                                                                                              colling method
                                                                                                                        all get 0's
                                                                                                 It This is the main reason that we can apply DP
                                                                                                                        in get categories and not that efficiently in print
                                                                                                                        categoria.
                         tic ArrayList<String> gss(int idx,String str)
                 ArrayList<String> bres = new ArrayList<>()
      ArrayList<String> smallAns = gss(idx + 1, str);
     for(String s: smallAns) {
   ans.add(s);
      for(String s: smallAns) {
   ans.add(str.charAt(idx) + s);
```

```
Get KPC
                                                                      66 11 idx = 3 (aur length)
                                                                         1 Give your boss
                           1 -> abc
2 -> def
3 -> ghi
4 -> jkl
5 -> mno
6 -> pqrs
7 -> tu
8 -> vwx
                                                                     66 q'7 idx=2
                                                                         1 gin your kpcs
                                                                  11491) idx=1
                                                                       hive your becs
                                                             16 64 999 idx=0
                      2 -> def
3 -> ghi
4 -> jkl
5 -> mno
                                                                                                    1111 idx=3
                                                                                                      9 jdx 22
              649
122+2=24 6
                                                                                                     4 idx=1
                                                    ξ"jy"," Ły"," ly",
                                                   "J2", "12"," 12" 3
60/62 Je. 265
                                                                                                     6 idx=0
           if(idx == str.length()) {
   ArrayList<String> base = new ArrayList<>();
   base.ad(("");
   return base;
          ArrayList<String> ans = new ArrayList<>();
ArrayList<String> smallAns = getKPC(str,idx + 1);
char ch = str.charAt(idx);
              for(String s: smallAns) {
   ans.add(strForNum.charAt(i) + s);
for applying for-each deal on each character of a String convert it to character
```

woray.



```
public static ArrayList<String> getStairPaths(int n) {
  if(n == 0) {
      ArrayList<String> base= new ArrayList<>();
      return base;
  if(n < 0) {
      return new ArrayList<>();
  ArrayList<String> smallAns1 = getStairPaths(n - 1);
  ArrayList<String> smallAns2 = getStairPaths(n - 2);
  ArrayList<String> smallAns3 = getStairPaths(n - 3);
  ArrayList<String> ans = new ArrayList<>();
  for(String s: smallAns1) {
      ans.add("1" + s);
  for(String s: smallAns2) {
      ans.add("2" + s);
  for(String s: smallAns3) {
      ans.add("3" + s);
  return ans;
```

