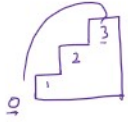


Print paths of stairs:-
n = no. of stairs // 3



min. Jump = 1
max. Jump = 3
n = 3

1 to 3
• 1 1 1
• 1 2
• 2 1
• 3



n = 4
• 1 1 1 1
• 1 1 2
• 1 2 1
• 1 3
• 2 1 1
• 2 2
• 3 1

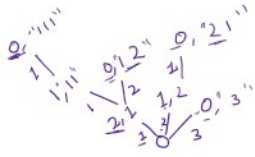
if (n == 0) {
 PSP (n, res) {
 Sout(res); return; }
}

if (n - 1 >= 0) {
 PSP(n - 1, res + "1");
}

if (n - 2 >= 0) {
 PSP(n - 2, res + "2");
}

if (n - 3 >= 0) {
 PSP(n - 3, res + "3");
}

}



n res

0	"3"	1 ✓
0	"2 1"	2 ✓
1	"2"	1 2 3 4
0	"1 2"	1 ✓
0	"1 1 1"	1 ✓
1	"1 1"	1 2 3 4
1	"1"	1 2 3 4
2	"1"	1 2 3 4
3	"1"	1 2 3 4

n = 3

```
public static void printStairPath(int n, String res) {
    1 if (n == 0) {
        System.out.println(res);
        return;
    }
    2 if (n - 1 >= 0) {
        printStairPath(n - 1, res + "1");
    }
    3 if (n - 2 >= 0) {
        printStairPath(n - 2, res + "2");
    }
    4 if (n - 3 >= 0) {
        printStairPath(n - 3, res + "3");
    }
}
```

n res

n = 3

0	"3"	1 ✓
0	"2 1"	1 ✓
1	"2"	1 2 3 4
0	"1 2"	1 ✓
0	"1 1 1"	1 ✓
1	"1 1"	1 2 3 4
1	"1"	1 2 3 4
2	"1"	1 2 3 4
3	"1"	1 2 3 4

```
public static void printStairPath(int n, String res) {
    1 if (n == 0) {
        System.out.println(res);
        return;
    }
    2 if (n - 1 >= 0) {
        printStairPath(n - 1, res + "1");
    }
    3 if (n - 2 >= 0) {
        printStairPath(n - 2, res + "2");
    }
    4 if (n - 3 >= 0) {
        printStairPath(n - 3, res + "3");
    }
}
```


SN SC NS



H.W \Rightarrow Same question with

Possibility.

$$dc = 2$$
$$3 \times 3$$

output

HH V V

W V W V

H V V H

LMNV

VH VH

V V H H

