https://course.acciojob.com/idle?question=57531c66-6db6-46df-a636-7b5c1a24662d

- MEDIUM
- Max Score: 40 Points
-

Place the Items in Boxes

You are given a number of boxes `N` and a number of identical items `R`.

You are required to place the items in those boxes and print all such configurations possible.

Items are identical and all of them are named 'i'.

Note 1: Number of boxes is greater than the number of items, hence some of the boxes may remain empty.

Note 2: Write the recursive code as intended without changing the signature. The judge can't force you but intends you to teach a concept.

Input Format

The first line of input contains an integer `N` denoting the number of boxes.

The second line of input contains an integer `R` denoting the number of items.

Output Format

Place the items in the boxes and print all such configurations possible.

`.` means empty box and `i` means occupied box.

Example 1

Input

```
5
3
```

Output

```
iii--
ii-i-
ii--i
i-ii-
i-i-i
i--ii
-iii-
-ii-i
-i-ii
--iii
```

Example 2

Input

```
3
2
```

Output

```
ii-
i-i
-ii
```

Constraints

1 <= R <= N <= 10

Topic Tags

- Recursion

My code

```
// n java
import java.io.*;
import java.util.*;

public class Main {

  public static void combinations(boolean[] boxes, int ci, int ti, int
lb){
    // write your code here

    if(ci>ti){
        for(int i=0; i<boxes.length; i++){
            if(boxes[i] == true){
                System.out.print("i");
            }
            else{
                System.out.print("-");
            }
        }
        System.out.println();
        return;
    }


    for(int b = lb+1; b<boxes.length; b++){

        boxes[b] = true;
        combinations(boxes, ci+1, ti, b);
        boxes[b] = false;
    }
```

```
  }

  public static void main(String[] args) throws Exception {
    BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
    int N = Integer.parseInt(br.readLine());
    int R = Integer.parseInt(br.readLine());
    combinations(new boolean[N], 1, R, -1);
  }

}
```