

An isometric illustration of an office environment with several cubicles. Each cubicle contains a desk with a computer monitor and keyboard, and a person is seated at each desk. The person in the central cubicle is wearing a blue sweater and a yellow tie, and is sitting on a yellow chair. The other people are wearing grey sweaters and dark ties. The word "LEVEL 7" is written in large, white, blocky letters across the center of the image.

# LEVEL 7



## Email Inbox



From: new.chief.of.operations@toxic-company.com

Subject: Manage variations

Due to our organizations commitment to flexibility and optimizing space utilization, desks at each CCC location may be of different sizes.

You'll need to manage these variations to ensure efficient use of the available space and meet our operational needs.



Reply

Forward

- The used desk size can be chosen freely between 1 and 7
- Desk sizes may be mixed within a room
- **Place desks in a way so that they cover a given number of cells**
- The given number of cells is the maximum number that is possible.





Input

Name	Description	Example
N	Number of rooms	3 10 9 47 9 7 35 6 8 24
Room (repeated N times)	Three space separated integers representing a room First integer: x room length (min room length is 4) Second integer: y room length (min room length is 4) <b>Third integer: number of cells to cover</b>	

Output

Name	Description	Example
Room (repeated N times)	A matrix of integers, with y rows and x columns 'X' represents a desk '.' represents no desk	<i>format identical to previous level</i>  XXXXXX.X.X .....X.X XXXXXX.X.X .....X.X XXXXXX.X.X .....X.X XXXXXX.X.X ..... XXXXXX.XXX  ...







# Happy 40th Coding Contest

CLOUDELIGHT  
**CODING**  
CONTEST

#WeLoveSoftware  
u too? [cloudflight.io/career](https://cloudflight.io/career)

Room Planner

