

# LEVEL 3



## Email Inbox



From: `global.head.of.logistics@toxic-company.com`

Subject: Your second promotion

Your performance in organizing and positioning the desks within the room has been commendable. You have been officially promoted to the position of “Senior Inventory Manager”.

To date, your responsibilities have been limited to managing rooms of convenient sizes. Moving forward, you will be tasked with overseeing rooms of any size. It is anticipated that, as a “Senior Inventory Manager”, you will demonstrate proficiency and excellence in managing inventory across diverse room sizes.



Reply

Forward

- The x side length is no longer guaranteed to be divisible by 3
- **For each room place the given number of desks in that room**
- The given number of desks is the maximum number that is possible
- For some rooms, not all cells can be filled with desks. An empty cell is represented with the ID 0





Input

Name	Description	Example
N	Number of rooms	<i>format identical to previous level</i>  3 7 5 11 9 7 21 6 8 16
Room (repeated N times)	Three space separated integers representing a room First integer: x room length Second integer: y room length Third integer: number of desks	

Output

Name	Description	Example
Room (repeated N times)	A matrix of integers, with y rows and x columns Each integer represents the ID of the table at that cell The order of the tables does not matter The empty line between rooms is optional <b>The empty cells (0) may be anywhere in the room</b>	<i>format identical to previous level</i>  0 1 1 1 2 2 2 3 3 3 4 4 4 11 5 5 5 6 6 6 11 7 7 7 8 8 8 11 9 9 9 10 10 10 0  1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 ...







# Happy 40th Coding Contest

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**CODING**  
CONTEST

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Room Planner

