

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 seated in a yellow chair. The other people are wearing grey sweaters and dark ties. The background is a solid light blue color.

# ROOM PLANNER

CLOUDLIGHT  
CODING  
CONTEST

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



## Email Inbox



From: your.manager@toxic-company.com

Subject: Meet your manager

---

Our corporation is approaching a major milestone with the 40th edition of CCC.

Senior leadership has set high expectations, and they'll be closely monitoring your KPIs. Additionally, we have onboarded a robust cohort of new talent, ready to contribute to our objectives.

Regarding event optimization, management is working on reconfiguring desk arrangements across all CCC sites. Your immediate focus will remain on overseeing the storage rooms which contain the desks for the CCC.

Remember, you're easily replaceable, so don't get too comfortable.



Reply

Forward





An isometric illustration of an office environment with several cubicles. Each cubicle contains a desk with a computer monitor and keyboard, and a person in business attire is seated at the desk. The central cubicle is highlighted with a yellow chair and desk. The text 'LEVEL 1' is prominently displayed in the center of the image.

# LEVEL 1



## Email Inbox



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

Subject: Your role

You are now assigned the role of “Junior Inventory Manager”.

Your primary task is to determine the maximum number of desks that can be efficiently stored in the storage rooms.



Reply

Forward

- You are given a list of rooms
- A room is a two-dimensional space with the sides  $x$  and  $y$   
Desks cannot be placed on top of each other, therefore there is no  $z$  dimension
- The desk size is 1 by 3
- The  $x$  side of each room is divisible by 3.
- **Calculate the maximum number of desks that can be placed in each room**





Input

Name	Description	Example
N	Number of rooms	3 6 5 9 8 6 7
Room (repeated N times)	Two space separated integers representing a room First integer: x room length (divisible by 3) Second integer: y room length	

Output

Name	Description	Example
Number of desks (repeated N times)	The maximum number of desks for the given room	10 24 14







# Happy 40th Coding Contest

CLOUDELIGHT  
**CODING**  
CONTEST

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

Room Planner

