

# Asteroid Mining

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# In 2048...

... humanity started mining rare minerals from the vast asteroid belt situated between Mars and Jupiter, to fuel even more ambitious engineering projects. Autonomous drones tirelessly carve tunnels into the floating boulders, searching for elements like iron, cobalt, and water.

This requires sophisticated algorithms guiding them and planning efficient tunnel layouts. In the silent depths of space, drones and algorithms work in harmony, extracting the building blocks of humanity's future.





level  
1

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LEVEL 1

- An asteroid consists of a "minable rectangle" surrounded by a layer of bedrock
- You are given a list of minable rectangle sizes
- For each **size**, print a **character representation** of the asteroid

4 3

#####  
#::::#  
#::::#  
#::::#  
#####



## Input

| Name   | Description   | Example                |
|--|---|------------------------|
| N  | Number of asteroids   | 3<br>3 2<br>6 4<br>4 3 |
| Minalbe rectangle size<br>(repeated N times) | The width followed by height of the minable rectangle, separated by a space |                        |

## Output

| Name  | Description  | Example  |
|---|--|--|
| Character representation<br>(repeated N times)                    | A paragraph of characters<br>‘#’ represents bedrock<br>‘:’ represents a minable cell | #####<br>#::#<br>#::#<br>#####<br><br>#####:<br>#::::#<br>#::::#<br>#::::#<br>#::::#<br>#####:<br><br>#####<br>#::#<br>#::#<br>#::#<br>##### |
| <i>Empty lines between asteroids are recommended but optional</i> |  |  |

→ For each input file, calculate the output and write it in a file.  
Upload your output file to the coding contest platform.

# Happy Mining!



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