



SOLAR CITY: ACTIVATED

8TH NOVEMBER : INTERNATIONAL CODING CONTEST

December 2039
location: Earth

Things moved too fast. Our most pessimistic predictions were off by too much - we're losing the planet, but on the long run, the planet will lose us.

Unless we completely switch to renewable energy in the next 5 years, coastal cities will be flooded, millions will have to move, riots will spread throughout the world, many will suffer.

New solar energy technology will help - but will we help ourselves?

- › Find the most cost effective and efficient way to produce solar energy
- › Resources are scarce so planning ahead is crucial
- › Some zones are better than others for planting solar panels, don't waste them!
- › Your AI assistant, GladOS, will guide you all the way through


CATALYSTS
CODING
CONTEST

A pair of hands is shown from the wrist up, holding a glowing, textured sphere. The sphere has a dark, reddish-brown, cratered surface, resembling a planet or a skull. The hands are positioned at the bottom, with fingers spread, supporting the sphere. The background is dark with a subtle bokeh effect of light spots. The text 'Level 1' is overlaid in the center in a large, white, serif font.

Level 1

GladOS:

- *alrighty, thinker tinker boy, girl, group, whatever you are, let's see what you can do.*
- *we'll start off with something easy, a warm-up. I'm sure you can do it.*
- *Mhm, yeap, childs-play.*



You are given a 2D matrix representing the world. Each cell in the matrix represents the altitude of the terrain at the corresponding cell.

Your task is to analyze the world and compute the **minimum**, **maximum**, and **average** height of the terrain.

Input

rows cols

a_{00} a_{10} a_{20} ...

a_{01} a_{11} ...

...

$a_{0rows-1}$ $a_{1rows-1}$... $a_{cols-1rows-1}$

cols - number of columns

rows - number of rows

a_{xy} - altitude of world at col x and row y
(integer)

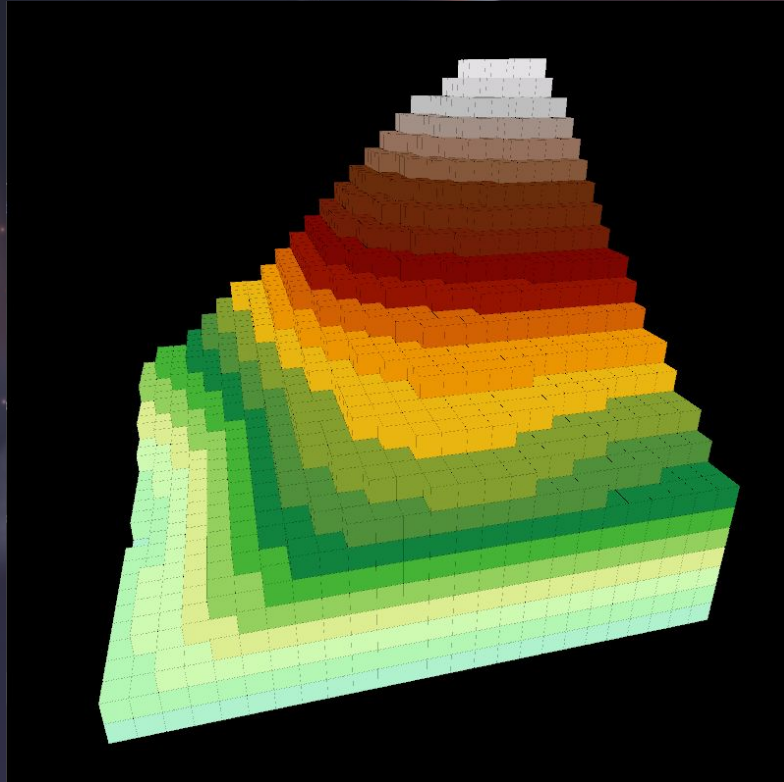
Output

min max avg

min - minimum altitude of the world (integer)



max - maximum altitude of the world (integer)

avg - **rounded down (floor)** average altitude of
the world (integer)



Example of world

In the archive you can download from CatCoder you will find an example input and output that you can use to quickly validate your code. This will be the case for all levels to come.

Progress	Your current results	Downloads	
Level 1	not yet finished	 Level description The description for this level	 level0
		Solution Submit Process the input and submit your solutions	
		<input type="text" value="lvl0-1.inp"/>	
		<input type="button" value="Choose File"/> No file chosen	<input type="button" value="UPLOAD"/> ?