event organizer
Catalysts

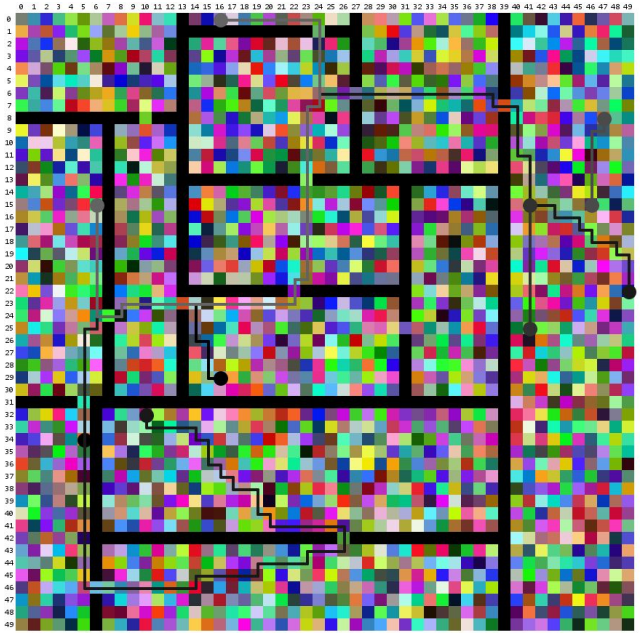
> Intro

December 2984
Location: fringe of the galactic empire
Planet Ulm, Habsburg cluster

Explorers all around the empire are trying to expand their knowledge and the maps of the universe which they have.

New, interestingly unique places are discovered from time to time, but a strange and peculiar place struck the interest more than most ...

Your task



- Find efficient ways to explore the interesting new planet
- You've just woken up from a 75 year long hibernation on the long journey, you'll have to catch up on the latest in tech before attempting to do anything serious!
- Your AI assistant, Glados, will guide you all the way through

Level 1

> Level 1

Glados:
Good day, explorer. I see you've woken up. I know, it's weird, waking up after 75 years? Don't worry. I'll put you up to date and help you remember all that you have learned. This new planet is quite the blast, I promise!

We'll have to recap our knowledge on colors.

Task for Level 1:

Find the distance between colors

> Level 1

- Each color has 3 dimensions - R, G, B (Red, Green, Blue)
- We define the distance between two colors just as we define the distance between 2 points in a 3D space
- The distances are rounded **down** to the nearest integer

- **(R1, G1, B1) -> (R2, G2, B2) = sqrt((R1-R2)^2 + (G1-G2)^2 + (B1-B2)^2)**

> Level 1

Input format.

<N>

<R1> <G1> <B1> <R2> <G2> <B2>

...

<R1> <G1> <B1> <R2> <G2> <B2>

} N times

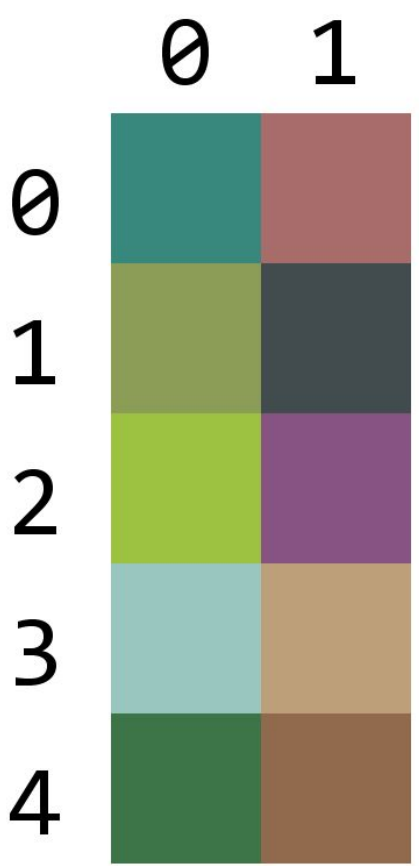
Output format.

<Distance>

...

<Distance>

} N times



> Level 1

Example:
Each row contains a color pair, whose distance has to be calculated

Input:
5
56 136 126 168 108 107
140 157 88 66 75 77
157 194 65 135 83 131
154 198 192 189 160 122
61 117 72 145 105 77

Output:
117
111
131
87
85