

00:16:58:04
N 52 CODE 7221
DATA CH12 1.31

STABILITY: 99.8%

28 MPH

STABILITY: 99.4%

AXIS: 1244

POWER: 85%

HUD
TERRAIN
L31 / L63
N81 / W86



L31 / L63 N81 / W86

L31 / L63
N81 / W86

IS ACTIVATED

International Coding Contest
22nd March 2019

CODE: 05-08115-14
20 540

December 2984

Location: fringe of the galactic empire

Planet Ulm, Habsburg cluster

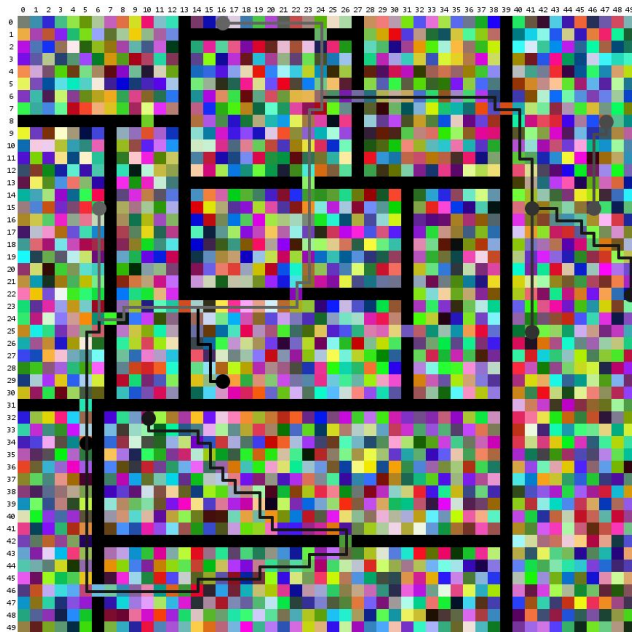


Explorers all around the empire are trying to expand their knowledge and the maps of the universe which they have.

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

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





- › 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
- › $(R1, G1, B1) \rightarrow (R2, G2, B2) = \text{sqrt}((R1-R2)^2 + (G1-G2)^2 + (B1-B2)^2)$

> 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

	0	1
0		
1		
2		
3		
4		

> 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

	0	1
0		
1		
2		
3		
4	