Compilation of Excellent Spatial Abilities (CELESTIAL)	1
Contest: Compilation of Excellent Spatial Abilities (CELESTIAL)  April 1, 2020 – June 19, 2020 11:59pm ET	
Participants: 20	
Test Designer: <u>James Dorsey</u>	The state of
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## **Contest Information**

Cheating: Do not discuss answers/hints. No time limit. Two attempts and reference aids are allowed. No penalty for guesses/wrong answers.

# **Compilation of Excellent Spatial Abilities (CELESTIAL)**

Observe the rotation and symmetry of the letters/numbers/symbols; for the solutions, use your keyboard – no drawing or software required!

?

### I. Series

1. Complete the series:

?

2. Complete the series:

?

3. Complete the series:

### II. Matrices

4. Find the missing element in this matrix:

5. Find the missing element in this matrix:

6. Find the missing element in this matrix:

< / < > /\_ ?

#### III. Analogies

7. Complete the analogy:

)(:(::<>:?

8. Complete the analogy:

|v! : ^i :: |\*H : ? |!v i^ |H\* |||

9. Complete the analogy:

#### IV. Odd-One-Out

10. Select the letter (A, B, C, or D) of the item that is different from the others:

11. Select the letter (A, B, C, D, E, F, G, H, I, J, or K) of the item that is different from the others:

/ \ - | - T Z W N E A B C D E F G H I J K

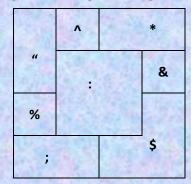
12. Select the letter (A, B, C, D, E, or F) of the item that is different from the others:



## V. Problem Solving

13. Select the letter (A, B, C, D, E, F, or G) of the item that needs to be removed to make the series correct:

14. State the order that the following overlapping same-sized squares were put on top of each other:



15. Abe purchased a large bar of soap in the shape of a perfect cube with 12-inch sides. He wants to share pieces of it with his college graduation class as a joke. What is the maximum amount of pieces after 12 straight cuts through this large bar of soap (without moving the pieces)?

# Final Scoreboard (June 19, 2020)

Name	Country	1st Attempt	2 <sup>nd</sup> Attempt	Mean Score	Prize		
Luca Fiorani	Italy	14	15	14.5	Free test submission and free society membership until July 31, 2020.		
Heinrich Siemens Merlin Thieme	Germany Germany	14 14	N/A 14	14	Free test submission until July 15, 2020.		
Jewoong Moon Hidden Matteo Basile Mirko Rossini	S. Korea Hidden Italy Italy	13	N/A	13	½-off test submission until June 30, 2020.		
Hidden James Gordon	Hidden USA	13 12	12 13	12.5	Secret Prize: given to all participants		
Jim Lorrimore Maximilian-Andrei Druță Nitish Joshi Gernot Feichter Tiberiu Sammak	England Romania India Austria Romania	12 12 12 12 12 12	N/A N/A N/A 12 N/A	12			
Göran Åhlander	Sweden	11	12	11.5			
Anthony Sepulveda	USA	11	N/A	11			
Hidden Alexandre Alves Duran	Hidden Brazil	10	N/A	10			
Andrius Jodinskas	Wales	10	8	9			
Hidden	Hidden	9	8	8.5			
	Luca Fiorani  Heinrich Siemens Merlin Thieme Jewoong Moon Hidden Matteo Basile Mirko Rossini  Hidden James Gordon Jim Lorrimore Maximilian-Andrei Druţă Nitish Joshi Gernot Feichter Tiberiu Sammak Göran Åhlander Anthony Sepulveda Hidden Alexandre Alves Duran Andrius Jodinskas	Luca Fiorani Italy  Heinrich Siemens Germany Merlin Thieme Germany  Jewoong Moon S. Korea Hidden Hidden Matteo Basile Italy Mirko Rossini Italy  Hidden Hidden James Gordon USA  Jim Lorrimore England Maximilian-Andrei Druţă Romania Nitish Joshi India Gernot Feichter Austria Tiberiu Sammak Romania Göran Åhlander Sweden Anthony Sepulveda USA  Hidden Hidden Alexandre Alves Duran  Andrius Jodinskas  Germany  Italy  Italy  Italy  Auden  Hidden  Hidden  Hidden  Hidden  Brazil  Andrius Jodinskas	Luca Fiorani Italy 14  Heinrich Siemens Germany 14  Merlin Thieme Germany 14  Jewoong Moon S. Korea  Hidden Hidden Hidden 13  Mirko Rossini Italy  Hidden Hidden USA 12  Jim Lorrimore England 12  Maximilian-Andrei Druţă Romania 12  Nitish Joshi India 12  Gernot Feichter Austria 12  Tiberiu Sammak Romania 12  Göran Åhlander Sweden 11  Anthony Sepulveda USA 11  Hidden Hidden Hidden 10  Alexandre Alves Duran Brazil 10  Andrius Jodinskas Wales 10	Name         Country         1st Attempt         Attempt           Luca Fiorani         Italy         14         15           Heinrich Siemens Merlin Thieme         Germany Germany         14         N/A           Jewoong Moon Hidden Matteo Basile Mirko Rossini         Hidden Hidden Italy         13         N/A           Hidden James Gordon USA James Gordon James Romania James James Romania James R	Name         Country         1st Attempt         Attempt         Score           Luca Fiorani         Italy         14         15         14.5           Heinrich Siemens Merlin Thieme         Germany Germany         14         N/A         14           Jewoong Moon Hidden Matteo Basile Hidden Matteo Basile Mirko Rossini         Italy         N/A         13         N/A         13           Hidden James Gordon USA James Gordon USA James Gordon USA Jim Lorrimore England Nitish Joshi India 12         N/A         N/A         N/A           Maximilian-Andrei Druță Romania 12         N/A         N/A         N/A         12         India 12         13         India 12         India 14         In		