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Courses » The Joy of Computing using Python

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Unit 6 - Week 4: Cool Ideas (Part 2)

Course outline

How to access the portal

Pre-requisite assignment

Week 1: Introduction

Week 2: Introduction to Python

Week 3: Cool Ideas (Part 1)

Week 4: Cool Ideas (Part 2)

● Practice is the key

● Magic Square: Hit and Trial 01

● Magic Square: Hit and Trial 02

● Magic Square: Hit and Trial 03

● Magic Square: Hit and Trial 04

● Magic Square: Hit and Trial 05

● Let's program and play

● Dobble Game - Spot the similarity 01

● Dobble Game - Spot the similarity 02

● Dobble Game - Spot the

Assignment 4

The due date for submitting this assignment has passed. **Due on 2018-09-05, 23:59 IST.**

Assignment submitted on 2018-09-05, 23:12 IST

1) Guess the Movie name.   *1 point*
I_C_P_ I O_

   ○ INCEPTION
   ○ INTUITION
   ○ INCUBATION
   ○ INTERVENTION

Yes, the answer is correct.
Score: 1

Accepted Answers:
INCEPTION

2) In *"Guess the Movie Name"* game, what will happen if the player asks to open up a letter that *1 point* is **not present** in the actual movie name?

   ○ The game comes to an end and the player is declared a loser.

   ○ The closest letter that precedes this requested letter in the alphabetical order and present in the actual movie name is opened up.

   ○ The closest letter that succeeds this requested letter in the alphabetical order and present in the actual movie name is opened up.

   ○ A message that the letter is not present is displayed then the game continues asking him to guess some other letter.

Yes, the answer is correct.
Score: 1

Accepted Answers:
A message that the letter is not present is displayed then the game continues asking him to guess some other letter.

3) In *"Guess the Movie Name"* game, we initially have all blanks (or *). Slowly as the person   *1 point* guesses a letter the question undergoes a change in state (the corresponding letter is opened up). If the movie name is *BANGALORE DAYS*, which of the following can **never** be a state of the question during the run of the program?

   ○ B _ _ G A _ O _ _   D_ Y_
   ○ _ A _ _ A _ O _ E   _A Y _
   ○ _ _ _ _ _ _ O_ E   _ _ Y_
   ○ _ _ _ _ _ _ O _ E   _ _ _ _

Yes, the answer is correct.
Score: 1

Accepted Answers:
*B _ _ G A _ O _ _   D_ Y_*

4) Consider a variation in the "Guess the Movie Name" game. Only English movies are   **1 point**
considered in the questions space. The points you get is variable as per the following **scheme:**
For example if the movie name is Avengers, the question is posed as _ _ _ _ _ _ _ _.
If the player guesses correct s/he gets 8 points (as there are 8 letters which s/he found).
If the player unlocks E, question becomes _ _ E _ _ E _ _. Now if s/he guesses right s/he gets 6 points.
If s/he unlocks A instead, the question becomes A _ E _ _ E _ _. Now if s/he guesses right s/he gets 5
points.
There is no deduction in points if s/he guesses a letter not present in the Movie name.

In this game, if the player guesses the correct movie name when the question was _ A _ _ I _, how many
points would s/he get?

- ○ 2
- ◉ 4
- ○ 6
- ○ 8

Yes, the answer is correct.
Score: 1

Accepted Answers:
4

5) What is the **minimum** number of people, you must ask the month of their birth so as to   **1 point**
guarantee a collision (sharing of the birth month)?

- ○ 11
- ◉ 13
- ○ 15
- ○ 18

Yes, the answer is correct.
Score: 1

Accepted Answers:
13

6) Which of the following is a correct solution to the 3 x 3 Magic Square puzzle?   **1 point**

- ○
- ○
- ○
- ◉

Yes, the answer is correct.
Score: 1

Accepted Answers:

7) In any 3 x 3 magic square solution, the sum across the rows or columns or diagonals is equal **1 point**
to:

- ○ 5
- ○ 10
- ◉ 15
- ○ 20

Yes, the answer is correct.
Score: 1

Accepted Answers:
15

8) What is the range of numbers that will be filled in a 4 x 4 magic square?   *1 point*

- ○ Numbers from 1 to 8
- ◉ Numbers from 1 to 16
- ○ Numbers from 1 to 64
- ○ Numbers from 1 to 32

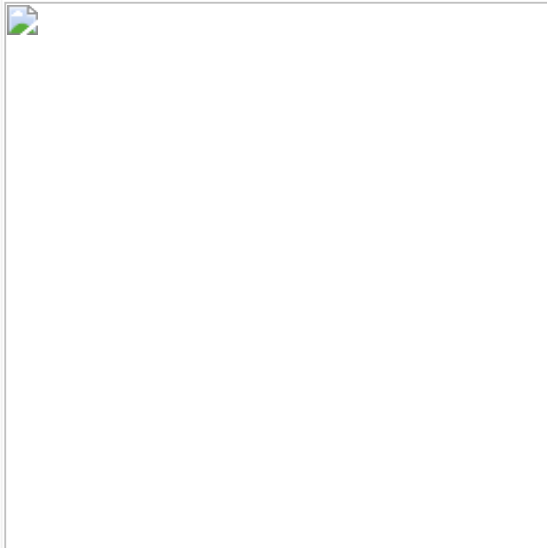**Yes, the answer is correct.**
Score: 1

Accepted Answers:
Numbers from 1 to 16

9)

1 point

What is the common symbol among these 2 cards?

- ○ Scissors
- ○ Cheese
- ○ Cat
- ◉ Sun glasses or Goggles

Yes, the answer is correct.
Score: 1

Accepted Answers:
Sun glasses or Goggles

10)If there were 10 symbols in each card of the dobble game, how many comparisons should **1 point**
one make at the **maximum** to find the common symbol?

○ 20

○ 50

● 100

○ 200

Yes, the answer is correct.

Score: 1

Accepted Answers:

100

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In association with

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Funded by

Government of India
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