

I. Problem Theory:

Design a database diagram for a restaurant application.

Explain the technology that will be used for this application and why you chose the technology

that.

Needs:

1. This application can enter customer food orders
2. This application can issue purchase receipts
3. This application can issue weekly and monthly income reports
4. This application can issue stock reports

In addition to the basic needs above, please add your original idea to create an application better.

(Note: This problem does not require a test taker to create an application (coding).)

II. Practice Questions:

Write a dice game script that accepts N number of players and M number of players as input dice, with the following rules:

1. At the start of the game, each player gets a dice of M units.
2. All players will roll their respective dice at the same time
3. Each player will check the results of their roll of the dice and evaluate as follows:
 - a. Dice number 6 will be removed from the game and added as points
 - b. for the player.
 - c. Dice number 1 will be awarded to the player sitting next to him.
 - d. For example, the first player will give the dice the number 1 to the second player.
 - e. Dice numbers 2,3,4 and 5 will still be played by the player.
4. After the evaluation, the player who still has the dice will repeat the 2nd step until only 1 player remains.
 - a. Players who have no more dice are considered to have finished playing.
5. The player who has the most points wins.

Make this script using the language you are good at.

Example:

Player = 3, Dice = 4

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Turn 1 roll the dice:

Player #1 (0): 3,6,1,3

Player #2 (0): 2,4,5,5

Player #3 (0): 1,2,5,6

After evaluation:

Player #1 (1): 3,3,1

Player #2 (0): 2,4,5,5,1

Player #3 (1): 2,5

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Turn 2 roll the dice:

Player #1 (1): 1,2,6

Player #2 (0): 4,3,1,3,3

Player #3 (1): 1.6

After evaluation:

Player #1 (2): 2.1

Player #2 (0): 4,3,3,3,1

Player #3 (2): 1

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Turn 3 roll the dice: Player #1 (2): 6.1

Player #2 (0): 2,5,6,4,6

Player #3 (2): 1

After evaluation:

Player #1 (3): 1

Player #2 (2): 2,5,4,1

Player #3 (2): _ (Stop playing because it has no dice)

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Turn 4 roll the dice:

Player #1 (3): 1

Player #2 (2): 3,4,5.5

Player #3 (2): _ (Stop playing because it has no dice)

After evaluation:

Player #1(3): _ (Stop playing for not having dice)

Player #2 (2): 3,4,5.5

Player #3 (2): _ (Stop playing because it has no dice)

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Game ends because only player #2 has dice.

Game won by player #1 because it has more points than other players

Please answer properly (by Ms. Word of PDF), and combine/merge with you original CV

Please answer some questions below and complete the following tasks. Submit your answers within 48 hours. You should use English to answer the questions.