Unit 8 - Week 6: Cool Ideas (Part 4)

Assignment 6

The due date for submitting this assignment has passed. Due on 2019-03-13, 23:59 IST.
As per our records you have not submitted this assignment.

1) Complete the following recursive function for calculating the factorial of a number. *1 point*

```
def fact(num):
    if(num==0):
        return 1
    else:
        return _________
```

- fact(num-1)
- num*fact(num)
- num*fact(num-1)
- (num-1)*fact(num)

No, the answer is incorrect.
Score: 0

Accepted Answers:
*num*fact(num-1)*

2) What is the output of the following recursive function? *1 point*

```
def test(i,j):
    if(i==0):
        return j
    else:
        return test(i-1,i+j)
print(test(4,7))
```

- 13
- 7
- 17
- 10

No, the answer is incorrect.
Score: 0

Accepted Answers:
17

3) State True or False. *1 point*
Recursion and iteration are similar programming techniques.

- True
- False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

4) Which of the following statements is true? *1 point*

- Both Caesar cipher and Substitution cipher are the same
- Caesar and Substitution cipher are totally unrelated
- Caesar cipher is a special case of Substitution cipher
- Substitution cipher is a special case of Caesar cipher

No, the answer is incorrect.
Score: 0

Accepted Answers:
Caesar cipher is a special case of Substitution cipher

5) If AMIT is encoded as ZLHS and SIMRAN is encoded as RHLQZM, then how would SOUJANYA be encoded as? *1 point*

- RNTIZGFD
- RTNIZMXZ
- RTNIZMZX
- RNTIZMXZ

No, the answer is incorrect.
Score: 0

Accepted Answers:
RNTIZMXZ

6) What is a Cipher? *1 point*

- An algorithm for performing encryption and decryption.
- An encrypted message
- Both A and B
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
An algorithm for performing encryption and decryption.

7) How many winning configurations are possible for a player in the Tic Tac Toe game? *1 point*

- 2
- 4
- 6
- 8

No, the answer is incorrect.
Score: 0

Accepted Answers:
8

8) What is the game strategy used in the Tic Tac Toe game? *1 point*

- Divide and Conquer
- Min-Max Strategy
- Greedy Strategy
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Min-Max Strategy

9) Which of these statements is true? *1 point*

- Recursion can solve a few problems which Iteration cannot.
- Iteration can solve a few problems which Recursion cannot.
- Anything that Recursion can solve can be solved by Iteration.
- Recursion and Iteration are totally unrelated.

No, the answer is incorrect.
Score: 0

Accepted Answers:
Anything that Recursion can solve can be solved by Iteration.

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