



BASIC QUESTIONS: 3 MARKS

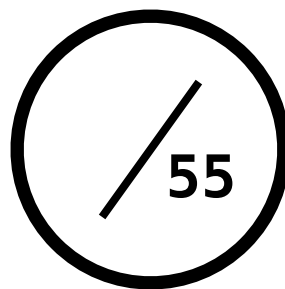
CODE: 5 MARKS

TRACE TABLES: 6 MARKS

week 3_1:

CW4 (1h 30m)

YOUR SCORE:



rajin teaches programming

NAME: _____

SECTION A: THEORY

Q1. Define a function in C programming and explain its purpose.

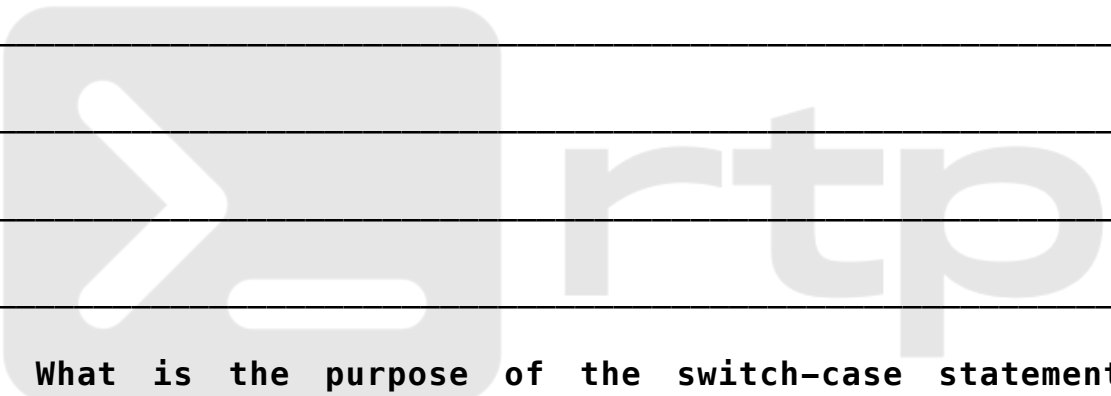
Q2. What is the difference between a function declaration and a function definition?

Q3. Explain the significance of function prototypes in C programming.

Q4. Describe the purpose of a loop in programming and provide examples of different types of loops in C.

Q5. Explain the difference between a for loop, a while loop, and a do-while loop.

Q6. Define a conditional statement in C programming and discuss its role.



What is the purpose of the switch-case statement?

Q8. What is the purpose of the switch-case statement in C programming? Why is the break statement necessary? (4)

SECTION B: PROBLEMS

Q9. Write a C program to find the sum of all even numbers between 1 and 100 using a loop and conditional statements.

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Q10. Write a C program to print the Fibonacci series using a loop and conditional statements.

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Q11. Write a C program to check if a number is prime using a loop and conditional statements.

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Q12. Write a C program to calculate the sum of all the prime numbers between m and n.

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Q13. Write a C program to compute the sum of the series $1/2, 1/3, 1/4, \dots, 1/n$ (n is a user input).

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Q14. Write a C program to calculate the sum of the series $x^0 + x^1 + x^2 + \dots + x^m$ (m is input by the user).

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WHAT DO YOU THINK ABOUT THE QUESTIONS?



TOO EASY,
TRY HARDER NEXT TIME



NORMAL



TOO HARD,
I STRUGGLED A LOT.