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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Problem Solving Through Programming In C (course)



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Course outline

How does an NPTEL online course work? ()

Week 0: ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Lecture 16: IF-ELSE Statement

Week 4: Assignment 4

The due date for submitting this assignment has passed.

Due on 2023-08-23, 23:59 IST.

Assignment submitted on 2023-08-23, 21:52 IST

1) What is the purpose of the "if-else" statement in C?

1 point

- a) To execute a block of code repeatedly.
- b) To declare variables and constants.
- © c) To test a condition and execute different code based on the result.
- d) To perform mathematical calculations.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- c) To test a condition and execute different code based on the result.
- 2) What is the correct syntax for an "if-else" statement in C?

1 point

- a) if condition { statement1; statement2; } else { statement3; }
- b) if condition then { statement1; } else { statement2; }
- c) if (condition) { statement1; } else { statement2; }
- d) if condition then statement1; else statement2;

Yes, the answer is correct.

Score: 1

Accepted Answers:

- c) if (condition) { statement1; } else { statement2; }
- 3) Which of the following is true about nested "if-else" statements?

1 point

(Contd.) (unit? a) They are not allowed in C. unit=44&lesso b) The "else" part is mandatory for every "if" statement. n=45) c) They allow you to test multiple conditions and execute different blocks of code based Lecture 17: on the results. Switch Od) Nested "if-else" statements are only allowed up to two levels deep. statement (unit? Yes, the answer is correct. unit=44&lesso Score: 1 n=46) Accepted Answers: c) They allow you to test multiple conditions and execute different blocks of code based on the O Lecture 18: results. Switch Statement 4) What happens if there is no "else" part in an "if-else" statement? 1 point (Contd.) and Introduction a) The program will not compile. to Loops b) The program will crash at runtime. (unit? C) If the condition is true, nothing happens; if the condition is false, the program crashes. unit=44&lesso n=47) Od) If the condition is true, the program executes the code inside the "if" block; if the condition is false, nothing happens. Lecture 19: **Implementing** Yes, the answer is correct. Repetitions Score: 1 (Loops) (unit? Accepted Answers: unit=44&lesso d) If the condition is true, the program executes the code inside the "if" block; if the condition is n=48) false, nothing happens. Lecture 20: 5) Which of the following operators can be used to combine multiple conditions in an Implementati "if" statement? on of Loops with for a) && (logical AND) Statement (Contd.) (unit? b) || (logical OR) unit=44&lesso c) ! (logical NOT) n=49) d) All of the above Quiz: Week 4 Yes, the answer is correct. : Assignment Score: 1 Accepted Answers: (assessment? d) All of the above name=230) Week 4 : 1 point 6) Compute the printed value of i of the C program given below **Programming** #include<stdio.h> Assignment 1 (/noc23_cs121 int main() /progassignm ent? int i=2; name=231) i=i++: printf("%d", i); Week 4 : **Programming** return 0; Assignment 2 (/noc23_cs121 /progassignm a) 2 ent?

(b) 3

name=232)

Week 4:
 Programming
 Assignment 3
 (/noc23_cs121
 /progassignment?

name=233)

- Week 4:
 Programming
 Assignment 4
 (/noc23_cs121
 /progassignment?
 name=234)
- Feedback
 Form of Week
 4 (unit?
 unit=44&lesso
 n=235)
- Assignment 4Solution (unit? unit=44&lesso n=51)

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

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- c) 4
- d) Compiler error

Yes, the answer is correct.

Score: 1

Accepted Answers:

- a) 2
- 7) If multiple conditions are used in a single "if" statement then the testing of those **1 point** conditions are done
 - a) From Right to Left
 - b) From Left to right
 - c) Randomly
 - d) None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

b) From Left to right

8) 1 point

What is the purpose of the given program? n is the input number given by the user.

```
#include <stdio.h>
int main()
{
    int n, x = 0, y;
    printf("Enter an integer: ");
    scanf("%d", &n);
    while (n != 0)
      {
          y = n % 10;
          x = x - y;
          n = n/10;
        }
    printf("Output is = %d", x);
    return 0;
```

- a) Sum of the digits of a number
- b) The negative sum of the digits of a number
- c) The reverse of a number
- od) The same number is printed

Yes, the answer is correct.

Score: 1

}

Accepted Answers:

b) The negative sum of the digits of a number

9) **1 point**

What will be the value of a, b, c after the execution of the followings

```
int a=5, b=7, c=111;
                 c = ++a * b--
  a) a=5, b=6, c=2;
  b) a=6, b=7, c=1;
  c) a=6, b=6,c=2;
  d) a=5, b=7, c=1;
Yes, the answer is correct.
Score: 1
Accepted Answers:
c) a=6, b=6, c=2;
10) What will be the output of the following program?
                                                                              1 point
      #include <stdio.h>
      int main()
      {
        int x = 1:
        switch (x)
           case 1: printf("Choice is 1 \n");
           default: printf("Choice other than 1 \n");
        return 0;
  a) Choice is 1
  b) Choice other than 1
  c) Both (a) and (b)
  d) Syntax error
Yes, the answer is correct.
Score: 1
Accepted Answers:
c) Both (a) and (b)
```