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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-ELSEStatement

Week 4: Assignment 4

The due date for submitting this assignment has passed.

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

Assignment submitted on 2023-08-19, 22:06 IST

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

- a) To execute a block of code repeatedly.
- b) To declare variables and constants.
- o 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

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 Clecture 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? (Contd.) and Introduction to a) The program will not compile. Loops (unit? b) The program will crash at runtime. unit=44&lesso n=47) C) If the condition is true, nothing happens; if the condition is false, the program crashes. d) If the condition is true, the program executes the code inside the "if" block; if the O Lecture 19: condition is false, nothing happens. Implementing Repetitions Yes, the answer is correct. (Loops) (unit? Score: 1 unit=44&lesso Accepted Answers: n=48) d) If the condition is true, the program executes the code inside the "if" block; if the condition is false, nothing happens. O Lecture 20: Implementatio 5) Which of the following operators can be used to combine multiple conditions in an n of Loops with for "if" statement? Statement (Contd.) (unit? a) && (logical AND) unit=44&lesso b) || (logical OR) n=49) c) ! (logical NOT) Quiz: Week 4 d) All of the above : Assignment Yes, the answer is correct. Score: 1 (assessment? Accepted Answers: name=230) d) All of the above Week 4 : Programming 6) Compute the printed value of i of the C program given below Assignment 1 #include<stdio.h> (/noc23 cs121 /progassignme int main() nt?name=231) int i=2; Week 4 : i=i++: **Programming** printf("%d", i); Assignment 2 (/noc23 cs121 return 0; /progassignme nt?name=232) Week 4 : a) 2 Programming

Assignment 3

(b) 3

1 point

1 point

(/noc23_cs121 /progassignme nt?name=233)

Week 4 :

Programming Assignment 4 (/noc23_cs121 /progassignme nt?name=234)

- Feedback
 Form of Week
 4 (unit?
 unit=44&lesso
 n=235)
- Assignment 4
 Solution (unit?
 unit=44&lesso
 n=51)

Week 5 ()

Week 6 ()

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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
 #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
    d) 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)
```