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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 ()

Week 5 ()

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, 20:00 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?



Week 6 ()

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a) They are not allowed in C.
    b) The "else" part is mandatory for every "if" statement.
    c) They allow you to test multiple conditions and execute different blocks of code based
    on the results.
    Od) Nested "if-else" statements are only allowed up to two levels deep.
  Yes, the answer is correct.
  Score: 1
  Accepted Answers:
  c) They allow you to test multiple conditions and execute different blocks of code based on the
  results.
 4) What happens if there is no "else" part in an "if-else" statement?
                                                                                       1 point
    a) The program will not compile.
    b) The program will crash at runtime.
    C) If the condition is true, nothing happens; if the condition is false, the program crashes.
    Od) If the condition is true, the program executes the code inside the "if" block; if the
    condition is false, nothing happens.
  Yes, the answer is correct.
  Score: 1
  Accepted Answers:
  d) If the condition is true, the program executes the code inside the "if" block; if the condition is
  false, nothing happens.
 5) Which of the following operators can be used to combine multiple conditions in an 1 point
"if" statement?
    a) && (logical AND)
    b) || (logical OR)
    c) ! (logical NOT)
    d) All of the above
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  a) && (logical AND)
                                                                                       1 point
 6)
       Compute the printed value of i of the C program given below
       #include<stdio.h>
       int main()
             int i=2;
             i=i++:
             printf("%d", i);
             return 0;
    a) 2
```

(b) 3

```
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)
```

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)
  od) Syntax error
Yes, the answer is correct.
Score: 1
Accepted Answers:
c) Both (a) and (b)
```

