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NPTEL

Courses » Problem Solving through Programming in C

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Unit 4 - Week 3

Course outline

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Week 3

○ Lecture 11 : Assignment Statement and Operators in C

○ Lecture 12 : Arithmetic Expressions and Relational Expressions

○ Lecture 13 : Logical Operators and Change in Control Flow

○ Lecture 14 : Use of Logical Operators in Branching

○ Lecture 15 : Branching : IF - ELSE Statement

● Quiz : Assignment 3

○ Practice Problem-1

Assignment 3

Due date for this assignment: 2018-09-06, 23:59 IST.

1) The precedence of arithmetic operators is (from highest to lowest)   ***1 point***

    ◉ %, *, /, +, −
    ○ %, +, /, *, −
    ○ +, -, %, *, /
    ○ %, +, -, *, /

2) Which of the following operator takes only integer operands?   ***1 point***

    ○ +
    ○ /
    ○ *
    ○ %

3) Which of the following method are accepted for assignment?   ***1 point***

    ○ 8=x=y=z
    ○ x=8=y=z
    ○ x=y=z=8
    ○ None

4) Which of the following statement is correct?   ***1 point***

    ○ Operator precedence determines which operator is performed first in an expression with more than one operator with different precedence. Associativity is used when two operators of same precedence appear in an expression

    ○ Operator associativity determines which operator is performed first in an expression with more than one operator with different associativity. Precedence is used when two operators of same precedence appear in an expression.

    ○ Operator precedence and associativity are same.

    ○ None of the above.

5) What is the output of the following program?   *1 point*

```
#include <stdio.h>
main()
{
        float i = -3.0;
        int k = i % 2;
        printf("%d", k);
}
```

○ -1

○ 1

○ 0

○ Compilation error

6) Compute the value of x of the C program given below   *1 point*

```
#include <stdio.h>
main()
{
    int x = 5 * 5 / 3 + 9;
}
```

○ 17.33

○ 14

○ 17

○ Depends on compiler

7) What is the output of the following program?   *1 point*

```
#include<stdio.h>
main()
{
  int a=10, b=3, c;
  float d;
  c=a%b;
  d=a/b;
  printf("Value of c and d are %d and %f respectively",c, d);
}
```

○ Value of c and d are 1 and 3 respectively

○ Value of c and d are 1 and 3.333333 respectively

○ Value of c and d are 1.000000 and 3.000000 respectively

◉ Value of c and d are 1 and 3.000000 respectively

8) Find the output of the following C code   *1 point*

```
#include<stdio.h>
main()
{
  int a=10, b=3, c=2, d=4, result;
  result=a+a*-b/c%d+c*d;
  printf("%d", result);
}
```

○ -42

○ 24
○ 15
○ -34

9) What is the output of the following C code?   *1 point*

```
#include <stdio.h>
main()
{

   int y = 2;
   int z = y +(y == 10);
   printf("%d\n", z);
}
```

○ 12
○ 2
○ 20
○ Compiler error

10. The output of the following program will be   *1 point*

```
#include<stdio.h>
main()
{
        int a=0,b=1,c=-1;
        if(a)
        printf("IITKGP \n");
        if(b)
        printf("IITM \n");
        if(c)
        printf("IITR \n");
}
```

○ IITKGP
○ IITM IITR

   IITM
○ IITR

   IITKGP
○ IITR

11 What is the output of the following program?   *1 point*

```
#include<stdio.h>
int main()
{
   int i;
   if(i=0,2,3)
      printf("NPTEL ");
   else
      printf("Programming on C ");
   printf("%d\n",i);
}
```

○ Programming on C 0
○ NPTEL 0

   ○ NPTEL 3
   ○ Compilation error

12 Find the output of the following program.   **1 point**
```
#include <stdio.h>
main()
{
    int x = 5;
    if (x>=6);
    printf("hello");
}
```

   ○ It will display hello
   ○ It will throw an error
   ○ Nothing will be displayed
   ○ Compiler dependent

13 What will be the output?   **1 point**

```
#include<stdio.h>
int main()
{
    int a;
    a = 10, 20, 30;
    printf("%d", a);
    return 0;
}
```

   ○ 10
   ○ 20
   ○ 30
   ○ Compilation error

14 What will be the output?   **1 point**

```
#include <stdio.h>
int main()
{
    int a = 100, b = 200, c = 300;
    if (c > b > a)
            printf("TRUE");
    else
            printf("FALSE");
    return 0;
```

   ○ TRUE
   ○ FALSE
   ○ Syntax Error
   ○ Compilation Error

15. What will be the output?   *1 point*
```
#include<stdio.h>
int main()
{
  int x;
  x= 5>7+3 && 8;
  printf("%d", x);
  return 0;
}
```

○ 0

○ 1

○ 9

○ Compilation error

16. What will be the output?   *1 point*
```
#include<stdio.h>
int main()
{
  int x;
  x= 10==20!=30;
  printf("%d", x);
  return 0;
}
```

○ 0

○ 1

○ 10

○ 30

17. What will be the output?   *1 point*
```
#include <stdio.h>
int main()
{
  int x=2;
  if(x=1)
     printf("TRUE");
  else
     printf("FALSE");
  return 0;
}
```

○ TRUE

○ FALSE

○ Compilation Error

○ Compiler Dependent

18 What will be the output?   *1 point*

```
#include <stdio.h>
int main()
{
  if( (-10 && 10)||(20 && -20) )
     printf("Condition is true.");
  else
     printf("Condition is false.");
  return 0;
}
```

- ○ Condition is true
- ○ Condition is false
- ○ Error
- ○ No output possible

19 What will be the output?   *1 point*

```
#include <stdio.h>
#define TRUE 1
int main()
{
  if(TRUE)
     printf("1");
     printf("2");
  else
     printf("3");
     printf("4");
  return 0;
}
```

- ○ 1 2 3 4
- ○ 1 2
- ○ Compilation error
- ○ 3 4

20 Which of the following are incorrect statements? If int a=7.   *1 point*

1) if(a==7) printf("IncludeHelp");

2) if(7==a) printf("IncludeHelp");

3) if(a=7) printf("IncludeHelp");

4) if(7=a) printf("IncludeHelp");

- ○ 1 and 2.
- ○ 3 only.
- ○ 4 only.
- ○ 2,3 and 4.

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers

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End

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Government of India
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