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sec20it093@sairamtap.edu.in ✓

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 ()

- ☐ Lecture 11 :  
Assignment  
Statement  
and  
Operators in

# Week 3 : Assignment 3

The due date for submitting this assignment has passed.

**Due on 2023-08-16, 23:59 IST.**

As per our records you have not submitted this assignment.

1) Which of the following statement is correct?

**1 point**

- ☐ a) 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
- ☐ b) 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
- ☐ c) Operator precedence and associativity are same.
- ☐ d) None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) 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

C (unit?  
unit=36&lesso  
n=37)

☐ Lecture 12 :  
Arithmetic  
Expressions  
and Relational  
Expressions  
(unit?  
unit=36&lesso  
n=38)

☐ Lecture 13 :  
Logical  
Operators  
and Change in  
Control Flow  
(unit?  
unit=36&lesso  
n=39)

☐ Lecture 14 :  
Use of Logical  
Operators in  
Branching  
(unit?  
unit=36&lesso  
n=40)

☐ Lecture 15 :  
Branching : IF  
- ELSE  
Statement  
(unit?  
unit=36&lesso  
n=41)

☐ Quiz: Week 3  
: Assignment  
3  
(assessment?  
name=224)

☒ Week 3 :  
Programming  
Assignment 1  
(/noc23\_cs121  
/progassignm  
ent?  
name=225)

☒ Week 3 :  
Programming  
Assignment 2  
(/noc23\_cs121  
/progassignm  
ent?  
name=226)

2) Find the output of the following C code

```
#include<stdio.h>
int main()
{
    int a=50, b=20, c=6, d=3, result;
    result=a+a*-b/c%d+c*d;
    printf("%d", result);
    return 0;
}
```

- ☐ a) 67  
☐ b) -36  
☐ c) 66  
☐ d) -37

No, the answer is incorrect.  
Score: 0

Accepted Answers:

a) 67

3) What is the output of the following C code?

```
#include <stdio.h>
int main()
{
    int h = 8;
    int b = 4 * 6 + 3 * 4 < h*5 ? 4 : 3;
    printf("%d\n", b);
    return 0;
}
```

- ☐ a) 0  
☐ b) 3  
☐ c) 4  
☐ d) Compilation error

No, the answer is incorrect.  
Score: 0

Accepted Answers:

c) 4

1 point

1 point

● Week 3 :  
Programming  
Assignment 3  
(/noc23\_cs121  
/progassignm  
ent?  
name=227)

● Week 3 :  
Programming  
Assignment 4  
(/noc23\_cs121  
/progassignm  
ent?  
name=228)

○ Feedback  
Form of Week  
3 (unit?  
unit=36&lesso  
n=229)

○ Assignment 3  
Solution (unit?  
unit=36&lesso  
n=43)

**Week 4 ()**

**Week 5 ()**

**Week 6 ()**

**Week 7 ()**

**Week 8 ()**

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Solving  
Session -  
July 2023 ()**

4) Find the output of the following C code

```
#include <stdio.h>
int main()
{
    int x=1;
    if ((3>5) || (2!=3))
        printf("IITKGP\n");
    else if (x&=0)
        printf("IITD\n");
    else
        printf("IITM\n");
    return 0;
}
```

- ☐ a) IITKGP  
☐ b) IITD and IITM  
☐ c) IITKGP and IITM  
☐ d) IITM

No, the answer is incorrect.  
Score: 0

Accepted Answers:

a) IITKGP

5) What will be the output?

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

- ☐ a) Condition is true  
☐ b) Condition is false  
☐ c) Error  
☐ d) No output possible

No, the answer is incorrect.  
Score: 0

Accepted Answers:

a) Condition is true

1 point

1 point

6) 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);
    return 0;
}
```

- ☐ a) Programming on C 0
- ☐ b) NPTEL 0
- ☐ c) NPTEL 3
- ☐ d) Compilation error

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) NPTEL 0

7) What is the output of the C program given below

1 point

```
#include <stdio.h>
int main()
{
    int x = 0;
    if (x++)
        printf("true\n");
    else if (x == 1)
        printf("false\n");
    return 0;
}
```

- ☐ a) true
- ☐ b) false
- ☐ c) Compiler dependent
- ☐ d) Compiler error

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) false

8)

1 point

What will be the output?

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

- ☐ a) 0
- ☐ b) 1
- ☐ c) 10
- ☐ d) 30

No, the answer is incorrect.  
Score: 0

Accepted Answers:

b) 1

9)

1 point

What will be the output?

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

- ☐ a) TRUE
- ☐ b) FALSE
- ☐ c) Syntax Error
- ☐ d) Compilation Error

No, the answer is incorrect.  
Score: 0

Accepted Answers:

b) FALSE

10)

**1 point**

What is the output of the following C code?

```
#include <stdio.h>
int main()
{
    int y = 10;
    int z = y +(y == 10);
    printf("%d\n", z);
    return 0;
}
```

- ☐ a) 10
- ☐ b) 11
- ☐ c) 20
- ☐ d) Compiler error

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) 11