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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 ()

- Lecture 11 :
Assignment
Statement and
Operators in C
(unit?)

Week 3 : Assignment 3

The due date for submitting this assignment has passed.

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

Assignment submitted on 2023-08-05, 12:58 IST

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

Yes, the answer is correct.

Score: 1

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

unit=36&lesson=37)

● Lecture 12 :
Arithmetic
Expressions
and Relational
Expressions
(unit?
unit=36&lesson=38)

● Lecture 13 :
Logical
Operators and
Change in
Control Flow
(unit?
unit=36&lesson=39)

● Lecture 14 :
Use of Logical
Operators in
Branching
(unit?
unit=36&lesson=40)

● Lecture 15 :
Branching : IF
- ELSE
Statement
(unit?
unit=36&lesson=41)

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

● Week 3 :
Programming
Assignment 1
(/noc23_cs121
/progassignment?
name=225)

● Week 3 :
Programming
Assignment 2
(/noc23_cs121
/progassignment?
name=226)

● Week 3 :
Programming

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

Yes, the answer is correct.
Score: 1

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

Yes, the answer is correct.
Score: 1

Accepted Answers:

c) 4

1 point

1 point

Assignment 3
(/noc23_cs121
/progassignment?name=227)

☒ Week 3 :
Programming
Assignment 4
(/noc23_cs121
/progassignment?name=228)

☐ Feedback
Form of Week
3 (unit?
unit=36&lesson=229)

☐ Assignment 3
Solution (unit?
unit=36&lesson=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

Yes, the answer is correct.
Score: 1

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

Yes, the answer is correct.
Score: 1

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

Yes, the answer is correct.

Score: 1

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

Yes, the answer is correct.

Score: 1

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

Yes, the answer is correct.

Score: 1

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

Yes, the answer is correct.

Score: 1

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