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NPTEL

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Courses » Programming, Data structures and Algorithms using C

Announcements **Course** Ask a Question Progress

Unit 2 - Week 1: Basic Programming Constructs

Course outline

Assignment0

Week 1: Basic Programming Constructs

- Quiz : Quiz 1
- Programming Assignment 1.1: Palindrome
- Programming Assignment 1.2: Leap Year
- Programming Assignment 1.3: Power of Two
- Programming Assignment 1.4: Count Digit
- Introduction to Computers and Programming
- Writing your first program
- Variables, Operators and Expressions
- Variable declarations, more operators and precedence
- Input and Output Statements
- Conditionals
- Loops
- Week 1 Slides PDF
- Quiz 1 Solutions

Quiz 1

The due date for submitting this assignment has passed. **Due on 2018-02-21, 23:59 IST.** As per our records you have not submitted this assignment.

Answer the following questions. All questions carry equal marks.

1) Which of the following is the correct way to write a comment in a C program? 1 point

- /COMMENT
- /COMMENT/
- /*COMMENT*/
- *COMMENT*

No, the answer is incorrect.

Score: 0

Accepted Answers:

/*COMMENT*/

2) Find the output of the following program: 1 point

```
#include<stdio.h>
int main()
{
    char c='a';
    int x=5,y=2;
    int z;
    switch(c){
        case 'a':
            z=x+y;
            printf("%d",z);
            break;
        case 'b':
            z=x-y;
            printf("%d",z);
            break;
        case 'c':
            z=x*y;
            printf("%d",z);
            break;
        default:
            printf("no value assigned");
    }
}
```

7

Week
1:Feedback

**Week 2: Arrays,
Pointers and
Strings**

**Week 3:
Functions, Time
complexity**

**Week 4: Sorting
and Searching
Algorithms**

**Week 5:
Structures,
Dynamic Memory
Allocation and
ADTs**

**Week 6: Stacks,
Queues, Heaps,
Trees and
Graphs**

**Week 7: Greedy
Algorithms and
DynamicProgramming**

**Week 8 : Hash
Tables & Graph
Algorithms**

**Week 9 : Graph
Traversal,
Articulation
Points, File
I/O,Modular
programming**

Help and FAQ

**Interactive
session with
students**

- 10
 3
 no value assigned

No, the answer is incorrect.

Score: 0

Accepted Answers:

7

3) What does the instruction $X \leftarrow X+1$ imply?

- Increment X and store it in some other variable.
 Store value of X in some other location.
 Take the integer stored in X, add 1 to it and store back in (location) X.
 None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Take the integer stored in X, add 1 to it and store back in (location) X.

4) Find the output of the following program.

```
#include<stdio.h>
void main()
{
    int x=10,b;
    b=++x;
    printf("%d",b);
}
```

- 10
 11
 9
 There would be a compilation error.

No, the answer is incorrect.

Score: 0

Accepted Answers:

11

5) Find the output:

```
#include<stdio.h>
void main(){
    int a,b;
    a=3;
    b=3;
    if(a==b)
        printf("a and b are equal");
    else if(a>b)
        printf("a is greater than b");
    else
        printf("b is greater than a");
}
```

- a and b are equal
 a is greater than b
 b is greater than a
 None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:



1 point

1 point

a and b are equal

6) Evaluate the following expression according to operator precedence used in C.
10-3%8+6/4

1 point

- 10
- 4
- 8
- 6

No, the answer is incorrect.

Score: 0

Accepted Answers:

8

7) What is the output of the following program?

0 points

```
#include<stdio.h>
int main()
{
    int i,x=5,y;
    for(i=1;i<5;i++);
    {
        y=x*i;
        printf("%d\n",y);
    }
}
```

- 5
- 10
- 15
- 20

- 0
- 5
- 10
- 15

- 5
- 5
- 5
- 5

- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

5
10
15
20

8) Which of the following is correct with respect to the instructions in a C program?

1 point

- Some instructions operate on data of the program.
- Some instructions control the flow of program.
- Both a & b
- Only a

No, the answer is incorrect.

Score: 0

Accepted Answers:



Both a & b

9) Find the output:

1 point

```
#include<stdio.h>
int main()
{
    int i=0;
    do{
        printf("inside loop ");
    }while(i==1);
    printf("outside loop");
}
```

- inside loop
- outside loop
- inside loop outside loop
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

inside loop outside loop

10) Find the output:

1 point

```
#include<stdio.h>
int main()
{
    int i=0;
    while(i==1){
        printf("inside loop");
    }
    printf("outside loop");
}
```

- outside loop
- inside loop
- inside loop outside loop
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

outside loop



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