

<https://swayam.gov.in>https://swayam.gov.in/nc_details/NPTEL

sec20it093@sairamtap.edu.in ▾

NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Problem Solving Through Programming In C (course)**



Click to register
for Certification
exam

(https://examform.nptel.ac.in/2023_10/exam_form/dashboard)

If already
registered, click
to check your
payment status

Course outline

**How does an
NPTEL
online
course
work? ()**

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 5 : Assignment 5

The due date for submitting this assignment has passed.

Due on 2023-08-30, 23:59 IST.

As per our records you have not submitted this assignment.

1) The statement that transfers control to the beginning of the loop is called

1 point

- ☐ a) break
- ☐ b) continue
- ☐ c) goto
- ☐ d) None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) continue

2) In C three way transfer of control is possible using

1 point

- ☐ a) Unary operator
- ☐ b) Logical operator
- ☐ c) Ternary operator
- ☐ d) None

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) Ternary operator

○ Lecture 21:
For Statement
(Contd.) (unit?
unit=52&lesso
n=53)

○ Lecture 22:
Example of If-
Else (unit?
unit=52&lesso
n=54)

○ Lecture 23 :
Example of
Loops (unit?
unit=52&lesso
n=55)

○ Lecture 24 :
Example of
Loops
(Contd.) (unit?
unit=52&lesso
n=56)

○ Lecture 25 :
Example of
Loops
(Contd.), Use
of FOR Loops
(unit?
unit=52&lesso
n=57)

○ Quiz: Week 5
: Assignment
5
(assessment?
name=236)

● Week 5 :
Programming
Assignment 1
(/noc23_cs121
/progassignm
ent?
name=237)

● Week 5 :
Programming
Assignment 2
(/noc23_cs121
/progassignm
ent?
name=238)

● Week 5 :
Programming
Assignment 3

3) What is the output of the following code?

```
#include <stdio.h>
int main()
{
    int i=0;
    do
    {
        printf("while vs do-while\n");
    }while(i==0);
    printf("Out of loop");
    return 0;
}
```

- ☐ a) 'while vs do-while' once
☐ b) 'Out of loop' infinite times
☐ c) Both 'while vs do-while' and 'Out of loop' once
☐ d) 'while vs do-while' infinite times

No, the answer is incorrect.
Score: 0

Accepted Answers:

d) 'while vs do-while' infinite times

4) What is the output of the following C program?

```
#include <stdio.h>
int main()
{
    int a = 0, i;
    for (i = 0; i < 5; i+=0.5)
    {
        a++;
        continue;
    }
    printf("%d", a);
    return 0;
}
```

- ☐ a) 5
☐ b) 10
☐ c) No output
☐ d) Compilation error

No, the answer is incorrect.
Score: 0

Accepted Answers:

c) No output

1 point

1 point

(/noc23_cs121
/progassignm
ent?
name=239)

- ☒ Week 5 :
Programming
Assignment 4
(/noc23_cs121
/progassignm
ent?
name=240)
- ☐ Feedback
Form of Week
5 (unit?
unit=52&lesso
n=241)
- ☐ Assignment 5
Solution (unit?
unit=52&lesso
n=60)

Week 6 ()

Week 7 ()

Week 8 ()

**DOWNLOAD
VIDEOS ()**

Books ()

**Text
Transcripts ()**

**Problem
Solving
Session -
July 2023 ()**

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

```
#include <stdio.h>
int main()
{
    int a = 1;
    if (a--)
        printf("True\n");
    if (++a)
        printf("False\n");
    return 0;
}
```

- ☐ a) True
- ☐ b) False
- ☐ c) Both 'True' and 'False'
- ☐ d) Compilation error

No, the answer is incorrect.
Score: 0

Accepted Answers:

c) Both 'True' and 'False'

6) What will be the output?

```
#include <stdio.h>
int main()
{
    int x=1;
    do
    {
        continue;
        printf("%d", x);
        x++;
        break;
    }while(x<=10);
    printf("\nAfter loop x=%d", x);
    printf("\n");
    return 0;
}
```

- ☐ a) After loop x=1
- ☐ b) 1
After loop x=2
- ☐ c) 1 2 3 4 5 6 7 8 9 10
- ☐ d) No output

No, the answer is incorrect.
Score: 0

Accepted Answers:

d) No output

1 point

1 point

7)

1 point

What will be the output?

```
#include <stdio.h>
int main()
{
    float k = 0;
    for (k = 0.5; k < 3; k++)
        printf("I love C\n");
    return 0;
}
```

- ☐ a) Error
- ☐ b) I love C - will be printed 3 times
- ☐ c) I love C - will be printed 6 times
- ☐ d) I love C - will be printed 5 times

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) I love C - will be printed 3 times

8)

1 point

What will be the output?

```
#include <stdio.h>
int main()
{
    int x;
    x = 4 < 8 ? 5 != 1 < 5 == 0 ? 1 : 2 : 3;
    printf("%d", x);
    return 0;
}
```

- ☐ a) 1
- ☐ b) 2
- ☐ c) 3
- ☐ d) Error

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) 2

9)

1 point

The following program is used to find the reverse of a number using C language. Find the missing condition inside while statement (indicated as 'xxxx').

```
#include <stdio.h>
int main()
{
    int n, reversedNumber = 0, remainder;

    printf("Enter an integer: ");
    scanf("%d", &n);

    while(xxxx)
    {
        remainder = n%10;
        reversedNumber = reversedNumber*10 + remainder;
        n /= 10;
    }

    printf("Reversed Number = %d", reversedNumber);

    return 0;
}
```

- ☐ a) n!=0
- ☐ b) n==0
- ☐ c) n%10==0
- ☐ d) n/10==0

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) n!=0

10)

1 point

Compute the printed value of i & j of the C program given below

```
#include <stdio.h>
int main()
{
    int i = 0, j = 15;
    while (i<8, j >9)
    {
        i++;
        j--;
    }
    printf("%d, %d\n", i, j);
    return 0;
}
```

- ☐ a) 8,10
- ☐ b) 8,9
- ☐ c) 6, 9
- ☐ d) 7, 10

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) 6, 9