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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 ()

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.

Assignment submitted on 2023-08-24, 22:09 IST

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

Yes, the answer is correct.

Score: 1

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

c) Ternary operator

```
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: Assignment5(assessment?name=236)
- Week 5 : Programming Assignment 1 (/noc23_cs121 /progassignme nt?name=237)
- Week 5:
 Programming
 Assignment 2
 (/noc23_cs121
 /progassignme
 nt?name=238)
- Week 5 : Programming Assignment 3 (/noc23_cs121

```
3)
                                                                                 1 point
    What is the output of the following code?
       #include <stdio.h>
       int main()
         int i=0;
         do
          printf("while vs do-while\n");
         \white(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
Yes, the answer is correct.
Score: 1
Accepted Answers:
d) 'while vs do-while' infinite times
4)
                                                                                 1 point
     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
Yes, the answer is correct.
Score: 1
Accepted Answers:
c) No output
```

```
/progassignme nt?name=239)
```

- Week 5:
 Programming
 Assignment 4
 (/noc23_cs121
 /progassignme
 nt?name=240)
- Feedback
 Form of Week
 5 (unit?
 unit=52&lesso
 n=241)

Week 6 ()

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Problem Solving Session -July 2023 ()

```
5)
                                                                                1 point
    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
Yes, the answer is correct.
Score: 1
Accepted Answers:
c) Both 'True' and 'False'
6)
                                                                                1 point
    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
  o) 1 2 3 4 5 6 7 8 9 10
  d) No output
Yes, the answer is correct.
Score: 1
Accepted Answers:
d) No output
```

```
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
Yes, the answer is correct.
Score: 1
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
  Oc) 3
  d) Error
No, the answer is incorrect.
Score: 0
Accepted Answers:
c) 3
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
 Yes, the answer is correct.
 Score: 1
 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++:
 printf("%d, %d\n", i, j);
 return 0;
    }
  a) 8,10
  (b) 8,9
  © c) 6, 9
  d) 7, 10
 Yes, the answer is correct.
```

Score: 1

Accepted Answers:

c) 6, 9