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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

Your last recorded submission was on 2023-08-30, 20:04 IST   **Due date: 2023-08-30, 23:59 IST. 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

2) In C three way transfer of control is possible using   ***1 point***

- ○ a) Unary operator
- ○ b) Logical operator
- ● c) Ternary operator
- ○ d) None

Week 6 ()

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3)   *1 point*

What is the output of the following code?

```c
#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

4)   *1 point*

What is the output of the following C program?

```c
#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

5)

What is the output of the following C code?

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

1 point

○ a) True

○ b) False

◉ c) Both 'True' and 'False'

○ d) Compilation error

6)

What will be the output?

```c
#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;
}
```

1 point

○ 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

7)   *1 point*

What will be the output?
```c
#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

8)   *1 point*

What will be the output?
```c
#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

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

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

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers