Week 5 : Assignment 5

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

Your last recorded submission was on 2023-08-29, 21:24 IST

1 point

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

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

1 point

In C three way transfer of control is possible using

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

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");
  }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

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

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

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
- c) 1 2 3 4 5 6 7 8 9 10
- d) No output

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

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

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

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