

Question **1**

Not yet answered

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What is true about the following for loop?

```
int k;  
for(k=1; k <= 3; )  
{  
    printf("%d ", k);  
}
```

Select one:

- ☐ a. 1 is printed infinite number of times
- ☐ b. compiler error
- ☐ c. 111
- ☐ d. 123
- ☐ e. none of the above

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Question **2**

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Consider the following structure.

```
struct point
```

```
{
```

```
    int x, y;
```

```
} A, B
```

Which of the following will be a valid statement in C.

Select one:

- ☐ a. `int L = (point.A - point.B) * (point.A + point.B);`
- ☐ b. `int L = (A.x - B.x) * (A.y + B.y);`
- ☒ c. `int L = (x - y) * (x + y);`
- ☐ d. `int L = (A - B) * (A + B);`
- ☐ e. `int L = (x.A - x.B) * (y.A + y.B);`

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Question **3**

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What is the output of following program?

```
int i = 0, j = 0;
do {
    if(i % 5 == 0){
        printf("%d", j );
        j++;
    }
    ++i;
}while(i<10);
printf("%d", j );
```

Select one:

- ☒ a. 01
- ☐ b. 123
- ☐ c. 012
- ☐ d. 0123
- ☐ e. 012345

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Question 4

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What is the output of the following code?

```
#include <stdio.h>

int main() {
    int value = 0;
    if(value)
        printf("Hello");
    printf("World");
    return 0;
}
```

Select one:

- ☐ a. Hello
- ☒ b. World
- ☐ c. Hello World
- ☐ d. Incorrect use of selection statement
- ☐ e. None of the above

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Question **5**

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Consider the following structure.

```
struct student
{
    int stdID;
    int age;
    char gender;
    int qty;
} std1, std2;
```

Select the incorrect statement/s about the above structure.

Select one or more:

- ☐ a. struct is a keyword.
- ☒ b. std1 and std2 are user defined data types.
- ☐ c. 'student' is a user defined data type.
- ☒ d. 'struct student' is a keyword.
- ☒ e. stuID, age, gender, qty are user defined data types.

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Question 6

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Select the **most suitable** code segment that do the following.

- If user input **number** is a positive value, display **number**
- If user input **number** is a negative value, convert it into positive value and display it

Select one:

☒ a.

```
if(number < 0)
{
    number = number * (-1);
}
printf("%d", number);
```

☐ b.

```
if(number < 0)
{
    number = number * (-1);
    printf("%d", number);
}
else
    printf("%d", number);
```

☐ c.

```
if(number >= 0)
    printf("%d", number);
else
{
    number = number * (-1);
    printf("%d", number);
}
```

☐ d.

```
if(number >= 0)
    printf("%d", number);
if(number < 0)
{
    number = number * (-1);
    printf("%d", number);
}
```

☐ e.

```
if(number < 0)
{
    number = number * (-1);
    printf("%d", number);
}
if(number >= 0)
    printf("%d", number);
```

Question **7**

Not yet answered

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Select correct order of using arithmetic operators to evaluate below expression.

$$X = 10 - 12 / 5 + 5 * 3 \% 2$$

Select one:

- ☐ a. -, /, +, *, %
- ☐ b. -, +, /, *, %
- ☒ c. %, *, /, +, -
- ☐ d. /, *, %, -, +
- ☐ e. %, *, /, -, +

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Question 8

Not yet answered

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Which of the following statements are correct about the following code segment?

```
int k = 12;
switch(k){
    case k >= 20: printf("Case1 ");break;
    case k < 20: printf("Case2"); break;
    default: printf("Default");
}
printf("exit");
```

Select one:

- ☐ a. prints Default
- ☒ b. expression used in switch is invalid
- ☐ c. prints case2Defaultexit
- ☐ d. prints case2exit
- ☐ e. case statements are invalid

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Question 9

Not yet answered

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select correct statement.

```
int x = 1;  
while (x < 1000)  
{  
    printf("%d ", x);  
    x++;  
}
```

After the execution of above code segment,

Select one:

- ☐ a. x = 1001 and the loop body will be executed 1000 times.
- ☐ b. x = 999 and the loop body will be executed 1000 times.
- ☐ c. x = 999 and the loop body will be executed 999 times.
- ☒ d. x = 1000 and the loop body will be executed 999 times.
- ☐ e. x = 1000 and the loop body will be executed 1000 times.

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Question **10**

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What is the output of the following program.

```
int main(void)
{
    int a = 10;
    int b = 6;
    a = a + b;
    ++a;
    printf("%d \n", a++);
}
```

Select one:

- ☐ a. 18
- ☒ b. 17
- ☐ c. 10
- ☐ d. 6
- ☐ e. 19

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Question **11**

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When $y = 5$, which of the following printf statements will be executed.

switch (y)

```
{  
    case 5: printf("Case 1\n");  
    case 3: printf("Case 3\n");  
    default: printf("***\n");  
}
```

Select one:

☐ a.

printf("***\n");

☐ b.

printf("Case 1\n");
printf("Case 3\n");
printf("***\n");

☒ c.

printf("Case 1\n");

☐ d.

printf("Case 1\n");
printf("***\n");

☐ e.

printf("Case 1\n");
printf("***\n");

Question **12**

Not yet answered

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If the ASCII value of A is 65 and a is 97, what will be the output of the following C statement.

```
printf("%d", 'A'+ 32);
```

Select one:

- ☐ a. 'A' + 32
- ☐ b. a
- ☒ c. 97
- ☐ d. Can't write a statement like above
- ☐ e. 'a'

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Question **13**

Not yet answered

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What will be the output of following code segment if user inputs 'A' as letter?

(ASCII values of 'A', 'B', 'C', 'D' are 65, 66, 67, 68)

```
char letter;  
int number = 67;  
printf("Enter letter: ");  
scanf("%c", &letter);  
number = ++letter;  
printf("%c\n", number);
```

Select one:

- ☐ a. 67
- ☐ b. A
- ☐ c. 66
- ☒ d. B
- ☐ e. 65

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Question **14**

Not yet answered

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Select the correct preprocessor directive of C language.

Select one:


- ☐ a. #include<iostream>
- ☐ b. #include<math.c>
- ☒ c. #include<stdio>
- ☐ d. #include<string>
- ☐ e. None of the above

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Question **15**

Not yet answered

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 Flag question

Select the statement that best describe sentinel control repetition

Select one:

- ☐ a. Any repetition statement in C language can be used
- ☒ b. Number of repetition is unknown at the beginning
- ☐ c. Sentinel value can't be zero
- ☐ d. All of the above
- ☐ e. None of the above

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Question **16**

Not yet answered

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Select the correct statement/s about the comments in C program.

Select one or more:

- ☒ a. Comments are not executed by the compiler.
- ☒ b. Comments makes the program more understandable to both humans and the computer.
- ☐ c. Comments are always mentioned within a single line.
- ☒ d. Comments makes the program more understandable to the humans.
- ☐ e. Comments are case Sensitive.

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Question **17**

Not yet answered

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Select correct statements about the following program

```
int main(void) {  
    int a = 1;  
    if(a++ > 0)  
        if (++a < 3){  
            ++a;  
            printf("if");  
        }  
    else  
        printf("else");  
    return 0;  
}
```

Select one or more:

- ☐ a. prints else
- ☒ b. the value of a is equal to 3 at the end of the program
- ☐ c. Incorrect placement of else statement
- ☐ d. nothing is printed to the screen
- ☒ e. prints if

Question **18**

Not yet answered

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🚩 Flag question

What is the output of the following code segment?

```
int x = 5 , y = 8, z =8;
```

```
x = y == z && x!=y;
```

```
printf("%d", x);
```

Select one:

- ☐ a. 0
- ☐ b. Incorrect use of operators
- ☒ c. 1
- ☐ d. 5
- ☐ e. 3

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Question **19**

Not yet answered

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A C program needs to be developed for the given scenario

scenario: Check the age of a Sri Lankan citizen for vaccination. The age must be between 20 and 29.

What would be the ideal control structure/s to be used ?

- A. Selection
- B. Iteration
- C. Sequential

Select one:


- ☒ a. A
- ☐ b. C
- ☐ c. B
- ☐ d. A and B
- ☐ e. A and C

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Question **20**

Not yet answered

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Which of the following are correct related to flowcharts

Select one or more:


- ☐ a. It is an algorithm
- ☐ b. It's a diagram that represents a workflow
- ☐ c. It uses arrows to show the order
- ☒ d. All of the above
- ☐ e. None of the above

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Question **21**

Not yet answered

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 Flag question

What is the output of following code segment?

```
float a = 5.55 + 4.8;  
printf("%d", (int) a );
```

Select one:

- ☐ a. 10.35
- ☐ b. 5.55
- ☐ c. 9
- ☐ d. 5
- ☒ e. 10

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Question **22**

Not yet answered

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Select the correct scanf statement to read a real number as a user input.

Select one or more:

- ☒ a. `scanf("%f", &number);`
- ☐ b. `scanf("%f\n", &number);`
- ☐ c. `scanf("%.2f\n", &number);`
- ☐ d. `scanf("%.2f", &number);`
- ☒ e. `scanf("%lf", &number);`




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Question **23**

Not yet answered

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 Flag question

Which of the following can be used to access the memory address of a variable?

Select one:

- ☒ a. &
- ☐ b. #
- ☐ c. +
- ☐ d. ^
- ☐ e. @

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Question **24**

Not yet answered

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Select the correct condition/s that needs to use to get the output as "X = 12" in the following C code segment.

```
int X = 0;
while( _____ )
{
    X += 2;
}
printf("X = %d\n", X);
```

Select one or more:


- ☐ a. $X \neq 12$
- ☐ b. $X \geq 12$
- ☐ c. $X \leq 12$
- ☐ d. $X \leq 10$
- ☒ e. $X < 12$

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Question **25**

Not yet answered

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Iteration can be implemented using _____

Select one or more:

- ☒ a. While
- ☒ b. For
- ☒ c. Do While
- ☐ d. Switch Case
- ☐ e. All of the above

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Question **26**

Not yet answered

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What will be the output of the following code segment ?

```
int a = 14;
while(a < 20)
{
    if(a >= 16 && a <= 18)
    {
        a++;
        continue;
    }
    printf("%d ", a);
    a++;
}
```

Select one:

- ☒ a. 14 15 19
- ☐ b. 14 15 18 19
- ☐ c. 15 16 17 18 19
- ☐ d. 14 15 16 18 19
- ☐ e. 15 19

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Question **27**

Not yet answered

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Which one of the following is a loop construct that will always be executed at least once?

Select one:

- ☐ a. for
- ☐ b. while
- ☒ c. do while
- ☐ d. None of the above
- ☐ e. All of the above

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Question **28**

Not yet answered

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What is the output of the below code segment?

```
int a=4,b,c;
```

```
b = --a;
```

```
c = a--;
```

```
printf("%d %d %d",a,b,c);
```

Select one:


- ☐ a. 3 3 2
- ☐ b. 2 3 2
- ☒ c. 2 3 3
- ☐ d. 3 2 2
- ☐ e. None of the above

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Question **29**

Not yet answered

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 Flag question

Select correct statement/s about variables.

Select one or more:

- ☒ a. A value of a variable can be assigned to another variable.
- ☒ b. The data type of the variable decides the appropriate size of the memory location.
- ☐ c. The variables must be declared, before they are given a value.
- ☐ d. Within a program, the value of the variable can be changed only once.
- ☐ e. The names of the variables are not case sensitive.

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Question **30**

Not yet answered

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Consider the following output.

```
Hi
I am Kethaki
I am studying at SLIIT
```

Which of the following code segments will generate the above output.

Select one or more:

- ☒ a. `puts("Hi");`
`puts("I am Kethaki");`
`puts("I am studying at SLIIT");`
- ☐ b. `printf("Hi");`
`printf("I am Kethaki");`
`printf("I am studying at SLIIT");`
- ☒ c. `printf("Hi");`
`printf("\nI am Kethaki");`
`printf("\nI am studying at SLIIT");`
- ☐ d. `puts("Hi\n");`
`puts("I am Kethaki\n");`
`puts("I am studying at SLIIT");`
- ☒ e. `printf("Hi\n");`
`printf("I am Kethaki\n");`
`printf("I am studying at SLIIT");`