

Mid Semester Exam- Fundamentals of Computer & Programming (FCP)(CS109S1)

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Mid Semester Exam - Fundamentals of Computer & Programming (FCP)
(CS109S1)

What is the output of C Program?

```
#include<stdio.h>
int main()
{
    int a = 1;
    switch(++a)
    {
        case 1 :printf(" Welcome ");

        case 2 :printf(" To ");

        default:printf(" SVNIT ");
        break;
    }
}
```

- ☐ Welcome To SVNIT
- ☒ To SVNIT
- ☐ Compile time error
- ☐ SVNIT

[Clear selection](#)



Convert the following octal number to binary number. 365.24

- ☐ 11110101.0101
- ☒ 111101010.010100
- ☐ 111110101.010101
- ☐ None of the above

Clear selection



What is the output of C Program?

```
#include<stdio.h>
int main()
{
    switch(41%7)
    {
        case 1:
            printf("Case 1");
            break;

        case 1*2+4:
            printf("Case 2");
            break;

        default:
            printf("Default");
            break;
    }
}
```

- ☐ Compile time error
- ☐ Default
- ☒ Case 2
- ☐ Case 1

Clear selection



Untitled Question

Which loop is most suitable to first perform the operation and then test the condition?

- A. for loop
- B. while loop
- C. do-while loop
- D. none of the mentioned

☐ A

☐ B

☒ C

☐ D

Clear selection

```
int main()
{
    if(-5)
    {
        printf("a");
        printf("b");
    }
    else
    {
        printf("c");
        printf("d");
    }
    return 0;
}
```

- A. ab
- B. cd
- C. abcd
- D. none of these

☒ A

☐ B

☐ C

☐ D

Clear selection



What is the output of C Program?

```
#include <stdio.h>
int main()
{
    int i=1;
    i-= 1;

    if (i == 0)
    {
        goto label;
    }
    printf("SVRCET");
    label: printf("SVNIT");

    return 0;
}
```

- ☐ Compile time error
- ☒ SVNIT
- ☐ SVRCETSVNIT
- ☐ SVRCET

Clear selection

Choose facts about continue; statement is C Language.

- ☐ continue; is used to take the execution control to next iteration or sequence.
- ☐ continue; statement causes the statements below it to skip for execution.
- ☐ continue; is usually accompanied with conditional statement.
- ☒ All the above.

Clear selection



What is the output of C Program.?

```
void main()
{
    int a=32;
    do
    {
        printf("%d ", a);
        a++;
    }while(a <= 30);
}
```

- ☒ 32
- ☐ 30
- ☐ No Output
- ☐ 33

Clear selection

3, '3' and "3" are considered by C compiler as _____

- ☐ ASCII code of '3'
- ☐ integer constant 3
- ☐ all equal
- ☒ integer, character and string constant respectively

Clear selection



What is the output of the following C Program?

```
#include<stdio.h>
int main()
{
    int a=5, b=10, c=-6;
    int d = (a>b) && (a<c);
    printf("%d ", d);
    return 0;
}
```

- ☐ -6
- ☐ 1
- ☒ 0
- ☐ 5

Clear selection

A variable declaration tells the compiler about _____

- ☐ a.) Value of the variable throughout the program
- ☐ b.) Name of the variable
- ☒ c.) Type of the variable
- ☐ d.) b and c
- ☐ e.) a, b and c

Clear selection



A flowchart needs to represent a situation where for each mark a student is awarded 'Pass' or 'Fail'. The system will consider the mark, and if it is 33 or over, awards 'Pass,' else it awards 'Fail.' This is an example of which of the algorithm constructs?

- ☐ Loop
- ☒ Decision
- ☐ Sequence
- ☐ All of the above

Clear selection

shift left by one bit performs_____ and shift right by one bit by one bit performs_____ arithmetic operations

- ☐ divide by 3, multiply by 3
- ☒ multiply by 2, divide by 2
- ☐ multiply by 3, divide by 3
- ☐ divide by 2, multiply by 2

Clear selection

In a flowchart, a process/calculation is represented by

- ☒ A rectangle
- ☐ A circle
- ☐ A rhombus
- ☐ A parallelogram

Clear selection



The first symbol in a flowchart is

- ☒ Start
- ☐ Output
- ☐ Input
- ☐ Connector

Clear selection

```
#include <stdio.h>
void main()
{
    int x=5, y=10;
    printf("%d %d %d %d",x,y,++x,y--);
}
```

- ☒ 5 10 6 10
- ☐ 6 9 6 10
- ☐ 5 10 6 11
- ☐ 6 10 6 10

Clear selection

Which of the following is valid variable name?

- ☐ doubles
- ☐ Row Total
- ☐ Minimum\$
- ☒ Column-Total

Clear selection



```
int main()
{
    if(10 > 9)
        printf("Singapore");
    else if(4%2 == 0)
        printf("England");
        printf("Poland");
    return 0;
}
```

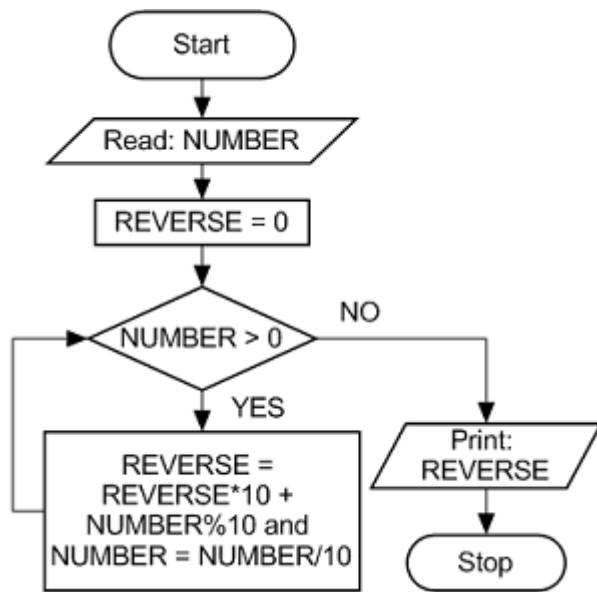
A. PolandSingapore
B. SingaporePoland
C. SingaporeSingapore
D. PolandPoland

- ☐ A
- ☒ B
- ☐ C
- ☐ D

Clear selection



If NUMBER is entered as 34521, how many times the condition $\text{NUMBER} > 0$ will be executed?



- ☒ 5 times
- ☐ 3 times
- ☐ 4 times
- ☐ 6 times

Clear selection

Add the following binary numbers. $1011.101 + 0111.111 + 1001.110$

- ☐ 10101.010
- ☐ 11101.110
- ☒ 11101.010
- ☐ 10101.101

Clear selection



What is the output of this C code?

```
#include <stdio.h>
main()
{
    int y = 3;
    int x = 5 % 2 * 3 / 2;
    printf("Value of x is %d", x);
}
```

- a) Value of x is 1
- b) Value of x is 2
- c) Value of x is 3
- d) Compile time error

☒ a

☐ d

☐ b

☐ c

Clear selection

Which of the following symbolic constant definition is valid?

☐ #define MARKS 200

☐ #Define MARKS 200

☒ #define MARKS=200

☐ #define MARKS 200;

Clear selection



which of the following operator is having right-to-left associativity?

☐ +

☒ <=

☐ =

☐ %

Clear selection

Convert the following decimal number to a binary number: 25.35

☐ 11001.100011

☐ 11001.010111...

☐ 11001.010110...

☐ 11001.010000...



What is the output of the following program?

```
#include<stdio.h>
int main()
{
    int a = 20;
    double b = 15.6;
    int c;
    c = a + b;
    printf("%d", c);
    return 0;
}
```

- ☐ 30
- ☐ 35.6
- ☒ 35
- ☐ 36

Clear selection

Which of the following statement is/are false with respect to switch statement?

- ☐ The break statement in switch case is not must
- ☐ The case value must be an integer or character constant
- ☒ The case value can be used only inside the switch statement
- ☐ The switch expression must be an integer or string type

Clear selection



```
#include <stdio.h>

main ()
{
    int x = 0;
    if (x == 0)
        printf("hi");
    else
        printf("how are u");
        printf("hello");
}
```

- A. hi
- B. how are you
- C. hello
- D. hihello

☒ A

☐ B

☐ C

☐ D

Clear selection

To store positive whole numbers in a variable, a variable type should be _____

☐ unsigned int

☒ signed int

☐ float

☐ long int

Clear selection



What is the output of C Program.?

```
void main()
{
    int a=32;

    do
    {
        printf("%d ", a);
        a++;
        if(a > 35)
            break;
    }while(1);
}
```

- ☐ Compiler error
- ☒ 32 33 34 35
- ☐ No Output
- ☐ 32 33 34

[Clear selection](#)



What is the output of the following program?

```
#include<stdio.h>
int main()
{
    int m;
    for (m=0; m<3; ++m)
    {
        printf ("%d ", (m%2) ? m : m+2);
    }
}
```

- ☐ 2 3 4
- ☐ 1 2 4
- ☐ 2 1 4
- ☒ 2 4 1

Clear selection

What will be the value of a after execution of the following statements?

```
int a, b=11;
char c = 'a';
a = c + b;
```

- ☐ Syntax error
- ☐ 11
- ☐ a+b
- ☒ 108

Clear selection



```
main()
{
int x =10;
if(x==20)
printf("true");
else
printf("false");
}
```

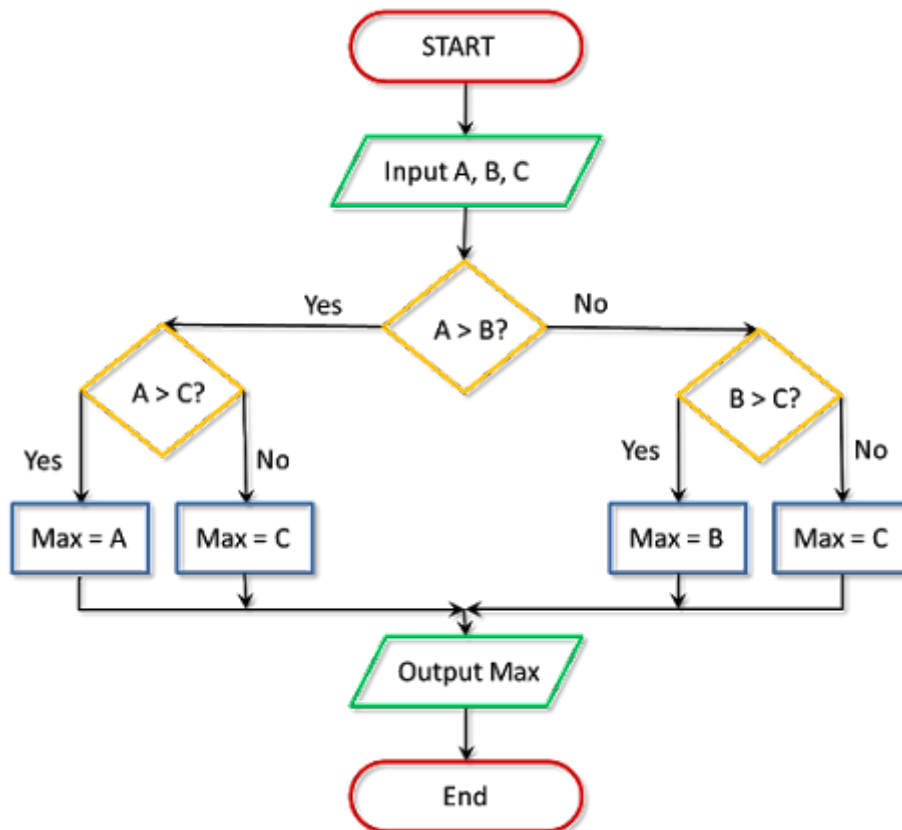
- A. true
- B. false
- C. 10
- D. 20

- ☐ A
- ☒ B
- ☐ C
- ☐ D

Clear selection



If a user enter 3, 3, 3, Which of the following assignments will assign the value to Max?



- ☐ Max = A
- ☐ Max = B
- ☒ Max = C
- ☐ All of the above

Clear selection

Find 2's complement of the following number. 1011010

- ☒ 0100110
- ☐ 1011000
- ☐ 1011011
- ☐ 0100101

Clear selection



What will be the output of the following program fragment.

```
#include<stdio.h>
int main()
{
    int a = 1, b = 2;
    a += b -= a;
    printf("%d %d", a, b);
    return 0;
}
```

- ☐ 1 2
- ☐ 2 2
- ☒ 2 1
- ☐ 1 1

Clear selection



```
int main()
{
    int a=5;

    while(a==5)
    {
        printf("GOOD");
        break;
    }

    return 0;
}
```

- ☐ GOOD is printed unlimited number of times
- ☒ GOOD
- ☐ Compiler error
- ☐ None of the above.

Clear selection

Convert the following decimal number to octal number. 569.453125

- ☐ 875.3521
- ☐ 1071.35
- ☒ 1025.3215
- ☐ 635.1235

Clear selection



What is the output of C Program?

```
#include<stdio.h>
int main()
{
int a=0, b;
a = ('a'<'A')?(b=60):(b=80);
printf("%d %d",a, b);
}
```

- ☐ Compile time error
- ☐ 80 80
- ☒ 60 60
- ☐ 60 80

Clear selection

Consider the following program fragment and choose the correct output.

```
#include<stdio.h>
int main()
{
    int a, b=2, c;
    a = 2 * (b++);
    c = 2 * (++b);
    printf("a = %d, c = %d", a, c);
}
```

- ☐ a = 3, c = 6
- ☐ a = 3, c = 8
- ☐ a = 4, c = 6
- ☒ a = 4, c = 8

Clear selection



```
int main()
{
    if(5 && 5 == 5) printf("true");
    else printf("false");
    return 0;
}
```

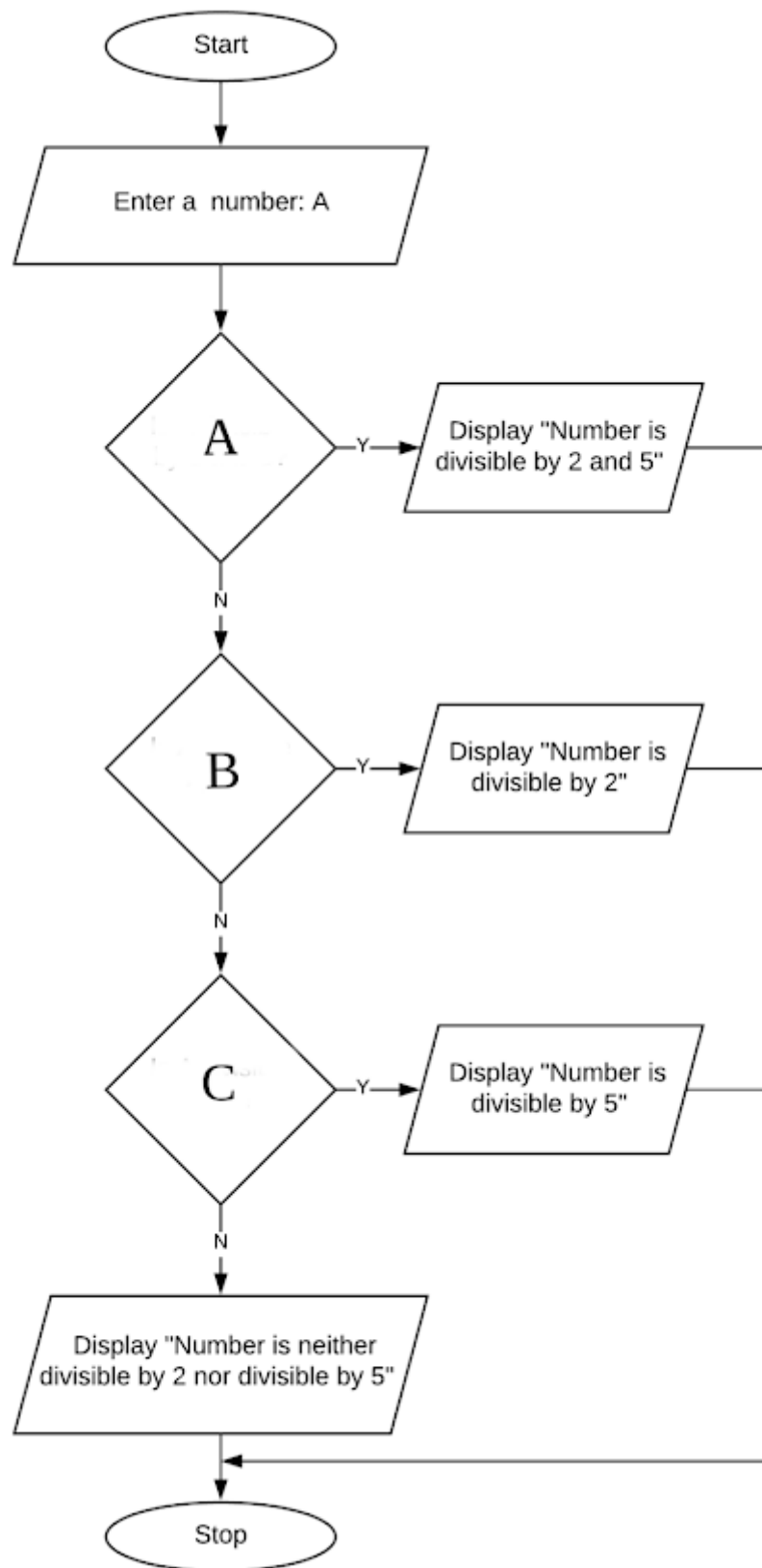
- A. error
- B. true
- C. false
- D. none of these

- ☐ A
- ☒ B
- ☐ C
- ☐ D

Clear selection



What can be the correct options for A, B and C in the given flowchart:



- ☒ A: Is A divisible by 2 or 5 B: Is A divisible by 2 C: Is A divisible by 5
- ☐ A: Is A divisible by 2 or 5 B: Is A divisible by 5 C: Is A divisible by 2
- ☐ A: Is A divisible by 2 B: Is A divisible by 5 C: Is A divisible by 2 or 5

☐ A: Is A divisible by 2 B: Is A divisible by 2 or 5 C: Is A divisible by 5

Clear selection

Add the following octal numbers. 67504 + 37775

☐ 135701

☒ 127501

☐ 037501

☐ 27501

Clear selection

What is the output of C Program?

```
int main()
{
    int a=25;

    while(a <= 27)
    {
        printf("%d ", a);
        a++;
    }

    return 0;
}
```

☒ 25 26 27

☐ Compiler error

☐ 27 27 27

☐ 25 25 25

Clear selection



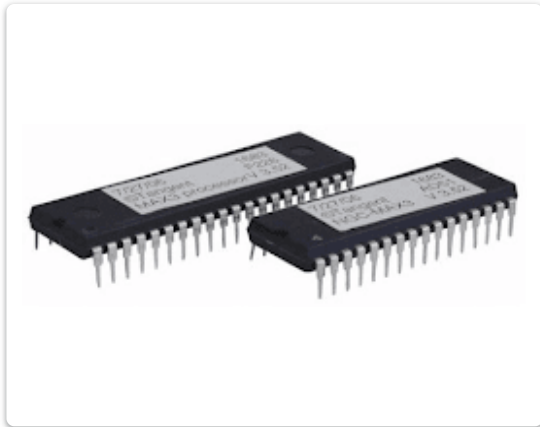
Which of the following is a central processing unit?



☐ Option 3



☐ Option 1



☐ Option 4



☒ Option 2

Clear selection

What is the output of C Program.?

```
int main()
{
    int a=14;
    while(a<20)
    {
        ++a;
        if(a>=16 && a<=18)
        {
            continue;
        }
        printf("%d ", a);
    }
    return 0;
}
```

- ☐ 15 16 17 18 19
- ☐ 15 18 19
- ☐ 15 16 20
- ☒ 15 19 20

Clear selection

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