

18CSS101J(PPS) CT1 22.05.2021

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* Required

MCQ s 25 X 1 =25 marks

MCQs

Find what is the output of this pseudo-code *

```
int i,j
set i=15, j=7
i= i mod (i-3)
j= j mod(j-3)
i= i mod 1
j= j mod 1
print i+j
```

☐ 1

☐ 16

☒ 0

☐ 6



Choose the correct Answer: *

You must print the following number

57 (ASCII value)

So accordingly modify the code to print the above number.

Find the missing fragments (highlighted) in the code.

```
int main()
{
    _____ a='9';
    printf("_____",a);
    return 0;
}
```

- ☒ unsigned char, %c
- ☐ unsigned int, %u
- ☐ unsigned char, %d
- ☐ int, %d



Choose the correct Answer: *

You are required to print the following statement

M T I

So accordingly fill up the blanks (highlighted) in the below program

```
#include<stdio.h>
int main()
{
    char varsity_name[] = {-----};
    printf("%c ",varsity_name[--]);
    printf("%c ",varsity_name[--]);
    printf("%c ",varsity_name[--]);
    return 0;
}
```

- ☐ 'S','R','M','I','S','T','M','I','T
- ☐ 'S','R','M','I','S','T',2,1,2
- ☒ 'S','R','M','I','S','T', 2,5,3
- ☐ 'S','R','M','I','S','T',3,4,6



Choose the correct Answer: *

You must print the following number series

200 3 -16 61 4

So accordingly modify the code to print the above series.

Find the missing fragments (highlighted) in the code.

```
int main ()
{
    unsigned int a=50;
    unsigned int b=15;
    int c=0;
    c=___;
    printf("%u\t", c);
    c=___;
    printf("%u\t", c);
    c=___;
    printf("%d\t", c);
    c=___;
    printf("%u\t", c);
    printf("%lu\t", ___);
    return 0;
}
```

- ☐ a<<2, b>>2, ~b, a^b, sizeof(a)
- ☐ a^b, b>>2, ~b, a<<3, sizeof(b)
- ☐ a^b , a<<2, ~b, b>>2, sizeof(a)
- ☐ a<<2, sizeof (b), ~b, b>>2, a^b



Choose the correct Answer: *

Assume the below pseudocode is implemented as a C program.

You must print the following number series

6 16 12

Find the missing fragments (highlighted) in the code.

a = b + c

c = a - b

c = c + a

c = b + c

b = b + c

Print a, b, c

- ☐ Float a=6, b=6, c=0
- ☒ Integer a=4, b=4, c=2
- ☐ Integer a=6, b=2, c=4
- ☐ Integer a=4, b=2, c=4

Choose the correct Answer: *

Comment on the output of this C code?

```
void main()
{
    int a = 8;
    int *const p = &a;
    int s = 12;
    p = &s;
    printf("%d",p);
}
```

- ☒ Address of s
- ☐ Address of a
- ☐ Compile time error
- ☐ Address of a + address of s



Choose the correct Answer: *

Identify which of the following special symbol allowed in a name?

- ☐ | (pipeline)
- ☐ * (asterisk)
- ☒ _ (underscore)
- ☐ - (hyphen)

Choose the correct Answer: *

You must print the following number series

-10, 5, 3, 1

So accordingly modify the code to print the above series.

Find the missing fragments (highlighted) in the code.

```
#include <stdio.h>

int main()
{
    int i=-11, j=5, k=3, m;
    m = ++i      ++j      ++k;
    printf("%d, %d, %d, %d\n", i, j, k, m);
    return 0;
}
```

- ☐ |, &
- ☐ &&, ||
- ☐ !, &&
- ☐ ||, &&



Choose the correct Answer: *

Identify which of the following is not true with respect to variable declaration?

- a) The first character in the variable name must be an alphabet or underscore.
- b) No special symbol other than an underscore can be used in a variable name.
- c) The maximum allowable length of a variable name is 30 characters.
- d) Commas or blanks are allowed within a variable name.

- ☐ a and c
- ☐ c and d
- ☒ a and d
- ☐ b and d



Choose the correct Answer: *

You must print the following number series

11 21 11 21 12 22 29 29

So accordingly modify the code to print the above series.

Find the missing fragments (highlighted) in the code.

```
#include<stdio.h>
void main()
{
    int m=10,n=20,s=30;
    printf("%d ",++m);
    printf("%d ",++n);
    printf("%d ",_____);
    printf("%d ",n++);
    printf("%d ",_____);
    printf("%d ",_____);
    printf("%d ",--s);
    printf("%d ",_____);
}
```

- ☒ m,++m,n,--s
- ☐ m,--m,++n,s++
- ☐ m++, m++, n++, s--
- ☐ ++m,m,n,s++

Choose the correct Answer: *

Identify which is false?

- ☒ Constant variables need not be defined as they are declared and can be defined later
- ☐ const keyword is used to define constant values
- ☐ Global constant variables are initialized to zero
- ☐ You cannot reassign a value to a constant variable



Choose the correct Answer: *

You are required to print the number

1

So accordingly fill up the blanks (highlighted) in the below program

```
#include <stdio.h>
#include <conio.h>
void main()
{
    int a;
    a = 5        8 && 6        5;
    printf("%d", a);
    getch();
}
```

- ☐ ||, &&
- ☒ <=, !=
- ☐ !=, <=
- ☐ &&, ||



Choose the correct Answer: *

You must print the following number series

$x = 10.000000$ $y = 7.000000$ $z = 4.000000$

So accordingly modify the code to print the above series.

Find the missing values (highlighted) in the code.

```
int main ()
{
    float a, b, c, x, y, z;
    a = _____;
    b = _____;
    c = _____;
    x = a - b / 3 + c * 2 - 1;
    y = a - b / (3 + c) * (2 - 1);
    z = a - (b / (3 + c) * 2) - 1;
    printf("x = %f\n", x);
    printf("y = %f\n", y);
    printf("z = %f\n", z);
}
```

- ☐ 3, 12, 9
- ☐ 3, 9, 12
- ☒ 9, 12, 3
- ☐ 12, 9, 3



Choose the correct Answer: *

You are required to print the number

6

So accordingly fill up the blanks (highlighted) in the below program

```
#include<stdio.h>
int main()
{
    int i = 20;
    int j ;
    j = ( 10, 12);
    printf("%d",j);
    return 0;
}
```

- ☐ i-=, i%
- ☐ i+=, i/
- ☒ i+=, i%
- ☐ i-=, i/



Choose the correct Answer: *

You must print the following number series

10 9 11

So accordingly modify the code to print the above series.

Find the missing fragments (highlighted) in the code.

```
#include <stdio.h>
int a=10;
int main()
{
    int a=10;
    block1();
    block2();
    printf("%d\t", -----);
    return 0;
}

block1 ()
{
    int a=-----;
    printf("%d\t",--a);
}
block2()
{
    int a=-----;
    printf("%d\t",a++);
}
```

- ☐ A++,10,9
- ☒ a,9,10
- ☐ ++a,11,9
- ☐ a++,10,11



Choose the correct Answer: *

Match the following with correct answer

- | | |
|---------------------------|---|
| 1. <code>getch()</code> | a. It reads a single character from the given input stream |
| 2. <code>getc()</code> | b. It reads from the standard input |
| 3. <code>getchar()</code> | c. It reads a single character from the keyboard and displays immediately on output screen |
| 4. <code>getche()</code> | d. It reads a single character from the keyboard and returned immediately without waiting for the enter key |

☐ 1-a,2-b,3-d,4-c

☐ 1-a,2-d,3-c,4-b

☒ 1-d,2-a,3-b,4-c

☐ 1-d,2-b,3-c,4-a



Choose the correct Answer: *

You must print the following number series

3 2 1

So accordingly modify the code to print the above series.

Find the missing fragments (highlighted) in the code.

```
#include< stdio.h>
int main()
{
    My_Function();
    My_Function();
    My_Function();
}

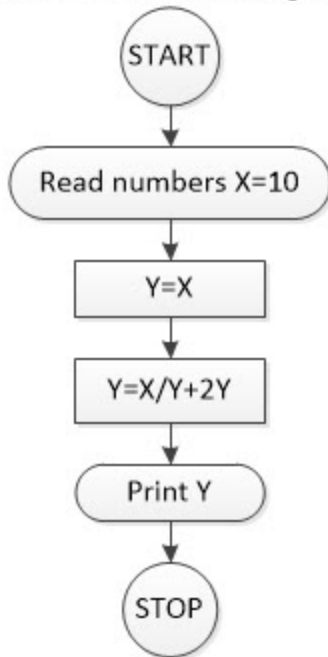
My_Function()
{
    ----- int a = -----;
    printf("%d\t",-----);
}
return 0;
}
```

- ☐ extern, 0,++a
- ☐ auto, 1, ++a
- ☒ static, 3, a --
- ☐ const, 1,a++



Choose the correct Answer: *

Find what will be the output of the flowchart given below?



- ☐ 15
- ☐ 20
- ☐ 1.56
- ☒ 21

Choose the correct Answer: *

You must print the following Value

27.000000

So accordingly modify the code to print the above value.

Find the missing fragments (highlighted) in the code.

```
int main()
{
    int a=2,b=3;
    _____;
    _____=(a-b)^2+2*(a*b)+3*(a^2*b);
    printf("%f",c);
    return 0;
}
```

- ☒ float c, c
- ☐ double c, c
- ☐ float c, c-
- ☐ double c, a-

Choose the correct Answer: *

```
#include <stdio.h>
int a=1000;
int main()
{
    printf("%d\t",a);
    {
        int a=1001;
        printf("%d\t",a);
    }
    printf("%d\t",a);
    a=1002;
    printf("%d",a);
    return 0;
}
```

- ☒ 1000 1000 1000 1000
- ☐ 1000 1001 1001 1002
- ☐ 1000 1000 1001 1002
- ☐ 1000 1001 1000 1002

Choose the correct Answer: *

Find what is the output of this C code?

```
void main ()
{
    int const a = 11;
    a++;
    printf("a is %d",a);
}
```

- ☒ Error because const and int are used together
- ☐ garbage value
- ☐ a is 12
- ☐ Error, because a constant variable cannot be changed

Choose the correct Answer: *

You must print the following value

1234.45995

So accordingly modify the code to print the above value.

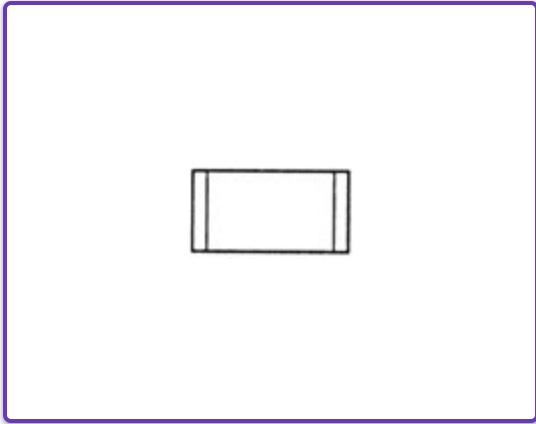
Find the missing fragments (highlighted) in the code.

```
int main()
{
    float a=1234.45;
    printf ( "            " , a );
    return 0;
}
```

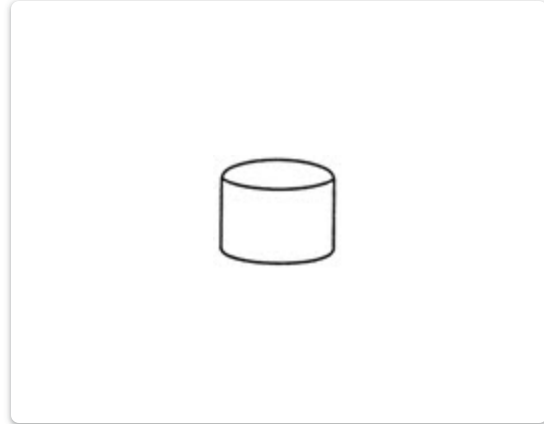
- ☐ %f
- ☐ %0.5f
- ☒ %lf
- ☐ %ld

Choose the correct Answer: *

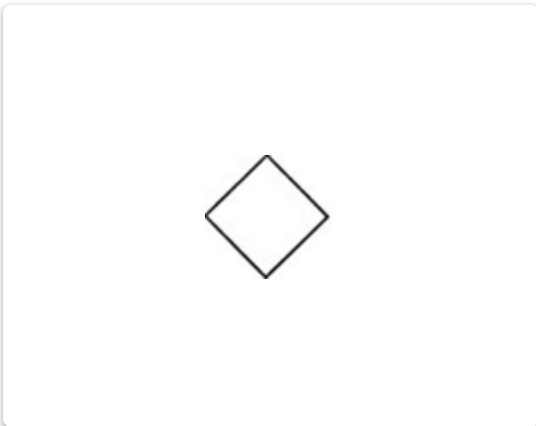
Identify which of the following symbols indicates a subroutine/procedure that is completely described in a separate flowchart segment?



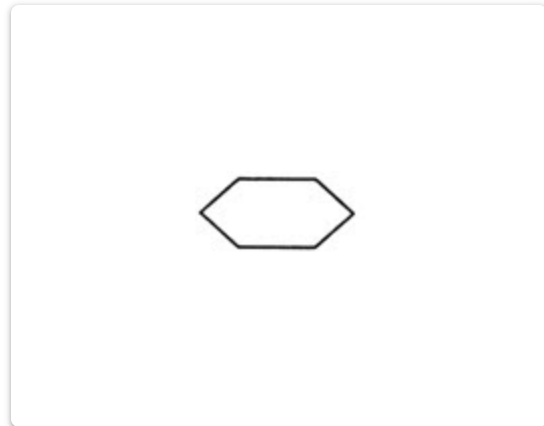
☒ Symbol



☐ symbol



☐ Symbol



☐ Symbol

Choose the correct Answer: *

To print the values of the variables a and b identify which of the following printf() statement is appropriate ?

```
#include<stdio.h>
```

```
float a=3.14;
```

```
double b=3.14;
```

- ☒ printf("%f %lf", a, b);
- ☐ printf("%Lf %f", a, b);
- ☐ printf("%f %Lf", a, b);
- ☐ printf("%Lf %Lf", a, b);

Choose the correct Answer: *

Output of following program?

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    static int i = 5;
```

```
    if(--i)
```

```
    {
```

```
        main();
```

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

```
    }
```

```
    return 0;
```

```
}
```

- ☐ Compiler Error
- ☐ 4 3 2 1
- ☐ 1 2 3 4
- ☒ 0 0 0 0

