

14-July-2021 | CS 109 S2 | FCP | End Semester Exam

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Choose the correct answer

The network topology in which devices are not directly linked to each other and where hub acts as a central controller is

- a. Mesh
- b. Star
- c. Ring
- d. Tree

☐ a

☒ b

☐ c

☐ d

[Clear selection](#)



What is the output of the below program?

```
#include <stdio.h>
int main() {
int array1[]={1,2,3,4,5,6};
printf("%d", sizeof(array1)/sizeof(array1[1]));
return 0;
}
```

- ☐ 23
- ☐ 12
- ☒ 6
- ☐ 3

Clear selection

Which of the following is a primary storage device?

- ☒ Magnetic tape
- ☐ Optical disk
- ☐ Hard disk
- ☐ None of these

Clear selection



Choose the correct answer

Standard ANSI C recognizes _____ number of keywords?

- a. 30
- b. 32
- c. 36
- d. 40

☐ a

☒ b

☐ c

☐ d

Clear selection

Which of the following operating system is primarily used in process control and telecommunications ?

- ☐ Embedded operating system
- ☐ Multiprocessor operating system
- ☐ Batch processing operating system
- ☒ Real time operating system

Clear selection



Convert the binary number 10011.010 to decimal.

- A) 19.25
- B) 18.25
- C) 18.40
- D) 24.50

☒ A

☐ B

☐ C

☐ D

Clear selection

Choose the correct answer

Which of the following symbol is used to denote a pre-processor statement?

- a. !
- b. #
- c. ~
- d. ;

☐ a

☒ b

☐ c

☐ d

Clear selection



Choose the correct answer

A network of computers and other devices that is confined to a relatively small space is called?

- a. Wide Area Network
- b. Local Area Network
- c. Global Network
- d. Peer-to-Peer Network

☐ a

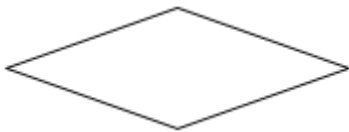
☒ b

☐ c

☐ d

Clear selection

This symbol in flowchart is used for



☐ I/O

☒ Decision

☐ Initialization

☐ Flow

Clear selection



Choose the correct answer

What is the correct value to return to the operating system upon the successful completion of a program?

- a. 1
- b. -1
- c. 0
- d. None of these

☐ a

☐ b

☒ c

☐ d

Clear selection



What will be the output of the following code:

```
#include <stdio.h>

void main()

{

    int a[2][3] = {1, 2, 3, 4, 5};

    int i = 0, j = 0;

    for (i = 0; i < 2; i++)

    for (j = 0; j < 3; j++)

    printf("%d", a[i][j]);

}
```

- ☐ Runtime Error
- ☒ 1 2 3 4 5 0
- ☐ 1 2 3 4 5 5
- ☐ 1 2 3 4 5 junk

Clear selection



Which of the following statements are correct about the function?

```
long fun(int num)
{
    int i;
    long f=1;
    for(i=1; i<=num; i++)
        f = f * i;
    return f;
}
```

- ☐ The function calculates the value of 1 raised to power num.
- ☐ The function calculates the square root of an integer
- ☒ The function calculates the factorial value of an integer
- ☐ None of above

Clear selection



What is the output of the following program?

```
#include<stdio.h>

int main()
{
    int i, j, count=0;

    for(i=0; i<5; i++);
    {
        for(j=0; j<5; j++);
        {
            count++;
        }
    }

    printf("%d",count);

    return 0;
}
```

- ☒ 1
- ☐ 25
- ☐ 5
- ☐ 0

Clear selection



Find the out put

```
#include<stdio.h>
int main()
{
    struct site
    {
        char name[] = "SVNIT";
        int no_of_pages = 200;
    };
    struct site *ptr;
    printf("%d ", ptr->no_of_pages);
    printf("%s", ptr->name);
    getchar();
    return 0;
}
```

- (a) 200 SVNIT
- (b) 200
- (c) Runtime Error
- (d) Compilation Error

- ☐ A
- ☐ B
- ☐ C
- ☒ D

Clear selection



What will be the output of the program?

```
#include<stdio.h>
int func1(int);

int main()
{
    int k=35;
    k = func1(k=func1(k=func1(k)));
    printf("k=%d\n", k);
    return 0;
}

int func1(int k)
{
    k++;
    return k;
}
```

- ☐ k=36
- ☒ k=38
- ☐ k=35
- ☐ k=37

Clear selection



Choose the correct answer

Which one of the following is not a valid identifier?

- a. `_examveda`
- b. `1_examveda`
- c. `exam_veda`
- d. `examveda1`

☐ a

☒ b

☐ c

☐ d

Clear selection

Which of the following register is loaded with the content of the memory location pointed by the Program counter?

- ☐ Memory Data Register
- ☐ Memory Buffer Register
- ☒ Instruction Register
- ☐ Memory Address Register

Clear selection



.....refers to pictorial representation of an algorithm.

- ☐ Program
- ☐ Pseudo Code
- ☒ Flowchart
- ☐ None of the above

Clear selection

A major disadvantage of the mask ROM is that _____

- ☐ It has an extremely short life expectancy and requires frequent replacement
- ☐ It is very expensive to change the stored data when system requirements change
- ☐ It is time consuming to change the stored data when system requirements change
- ☒ It cannot be reprogrammed if stored data needs to be changed

Clear selection



Choose the correct answer

Low level language is?

- a. Human readable like language
- b. language with big program size
- c. language with small program size
- d. Difficult to understand and readability is questionable

☐ a

☐ b

☐ c

☒ d

Clear selection

..... puts the program in memory for execution.

☐ Linker

☒ Loader

☐ Compiler

☐ Preprocessor

Clear selection



What will be the output of following code?

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

```
struct PQR
```

```
{
```

```
    struct ABC
```

```
    {
```

```
    };
```

```
};
```

```
int main ()
```

```
{
```

```
    printf("%d",sizeof(struct PQR));
```

```
    return 0;
```

```
}
```

(a) 0

(b) 1

(c) Compilation error

(d) None of above

☒ A

☐ B

☐ C

☐ D

Clear selection



Assume that float takes 4 bytes, what is the output of the following program?

```
#include <stdio.h>

int main()
{
    float arr[5] = {12.5, 10.0, 13.5, 90.5, 0.5};
    float *ptr1 = &arr[0];
    float *ptr2 = ptr1 + 3;

    printf("%f ", *ptr2);
    printf("%d", ptr2 - ptr1);

    return 0;
}
```

- ☐ 10.000000 12
- ☐ 0.500000 3
- ☒ 90.500000 3
- ☐ 90.500000 12

Clear selection



What is the output of the following code?

```
#include <stdio.h>

int main()
{
    char str1[20];
    scanf("%s",str1);
    printf("%s",str1);
    return 0;
}
//input - SVNIT Surat
```

- ☐ Error
- ☒ SVNIT
- ☐ SVNIT Surat
- ☐ Surat

Clear selection



What will be the output of the following C code?

```
#include <stdio.h>

int main()
{
    printf("%d ", 1);
    goto l1;
    printf("%d ", 2);
l1:goto l2;
    printf("%d ", 3);
l2:printf("%d ", 4);
}
```

- A. 1 4
- B. 1 2 4
- C. 1 3 4
- D. 1 2 3 4

- ☒ A
- ☐ B
- ☐ C
- ☐ D

Clear selection



Choose the correct answer

C variable cannot start with

- a. A number
- b. A special symbol other than underscore
- c. Both a & b
- d. An alphabet

☐ a

☐ b

☒ c

☐ d

Clear selection



What is the output of the program?

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

```
int main()
{
    structure hotel
    {
        int items;
        char name[10];
    }a;
    strcpy(a.name, "TAJ");
    a.items=10;
    printf("%s", a.name);
    return 0;
}
```

- (a) TAJ
- (b) Empty string
- (c) Compiler error
- (d) None of the above

- ☐ A
- ☐ B
- ☐ C
- ☐ D



Choose the correct answer

Symbolic constants are not declared in declaration section.

- a. True
- b. False

☐ a

☒ b

Clear selection



What will be the output of the program?

```
#include<stdio.h>
int i;
int fun();

int main()
{
    while(i)
    {
        fun();
        main();
    }
    printf("Hello\n");
    return 0;
}

int fun()
{
    printf("Hi");
}
```

- ☐ Hi Hello
- ☒ Hello
- ☐ Infinite loop
- ☐ None of the above

Clear selection



What is the responsibility of the logical unit in the CPU of the computer?

- ☒ To control flow of information
- ☐ To produce result
- ☐ To compare numbers
- ☐ To do mathematical operations

Clear selection

What will be the output of the following C code?

```
#include <stdio.h>
int main()
{
    int i = -3;
    int k = i % 2;
    printf("%d\n", k);
}
```

- A. 1
- B. -1
- C. 3
- D. -3

- ☐ A
- ☒ B
- ☐ C
- ☐ D

Clear selection



Why ROM is called non-volatile memory?

- ☐ They lose memory when power is supplied
- ☒ They lose memory when power is removed
- ☐ They do not lose memory when power is supplied
- ☐ They do not lose memory when power is removed

Clear selection

Find the output of the following

```
#include <stdio.h>
#include <string.h>
int main(void)
{
    char str1[] = "ATMA NIRBHAR BHARAT";
    printf("%c%c", str1[sizeof(double)], str1[sizeof(char)]);
    return 0;
}
```

- ☐ AA
- ☒ BT
- ☐ HA
- ☐ Error

Clear selection



What is the output of following program?

```
#include <stdio.h>
void main()
{
    double i = 0;
    for (i = 0.0; i < 4.0; i++)
        printf("SVNIT");
}
```

- ☐ Runtime Error
- ☐ SVNIT is printed infinite times
- ☒ SVNIT is printed four times
- ☐ SVNIT is printed three times

Clear selection



Which of the following statements correctly assigns 2 to month using pointer variable p?

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

```
struct date
{
    int day;
    int month;
    int year;
};
int main()
{
    struct date d;
    struct date *p;
    p= &d;
    return 0;
}
(a) p.month = 2
(b)&p.month = 2
(c)d.month = 2
(d)p->month = 2
```

☐ A

☐ B

☐ C

☒ D

Clear selection



What will be the output?

```
#include <stdio.h>
union p
{
    int x;
    char y;
}k = {1, 9};
int main()
{
    printf("%d\n", k.y);
}
```

- (a) Compile time error
- (b) 9
- (c) Garbage value
- (d) 1

☒ A

☐ B

☐ C

☐ D

Clear selection



Choose the correct answer

Which of the following is not a correct variable type?

- a. float
- b. real
- c. int
- d. char

☐ a

☒ b

☐ c

☐ d

Clear selection



What will be the output of following code?

```
#include<stdio.h>
void main()
{
    struct cricket
    {
        int match_no;
        char name [20];
    };
    struct cricket c;
    match_no = 8;
    printf("%d",match_no);
}
```

- (a) Compile time error
- (b) 8
- (c) junk
- (d) None of these

☒ A

☐ B

☐ C

☐ D

Clear selection



What will be the output of the following C code?

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

```
void main()
```

```
{
```

```
    int x = 4, y, z;
```

```
    y = --x;
```

```
    z = x--;
```

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

```
}
```

A. 3 2 3

B. 2 3 3

C. 3 2 2

D. 2 3 4

☐ A

☒ B

☐ C

☐ D

Clear selection



What is the output of the following program?

```
#include <stdio.h>

int main()
{
    int x = 3;

    x += 2;
    printf("%d", ++x);

    return 0;
}
```

- ☒ 6
- ☐ 3
- ☐ 5
- ☐ 2

Clear selection



What is the output of the following program?

```
#define print(x) printf("%d ", x)
int x;
void Q(int z)
{
    z += x;
    print(z);
}
void P(int *y)
{
    int x = *y + 2;
    Q(x);
    *y = x - 1;
    print(x);
}
main(void)
{
    x = 5;
    P(&x);
    print(x);
}
```

- ☐ 14 6 6
- ☒ 12 7 6
- ☐ 22 12 11
- ☐ 7 6 6

Clear selection



What will be the output of the program?

```
#include<stdio.h>

int main()
{
    int fun(int);
    int i = fun(10);
    printf("%d\n", --i);
    return 0;
}

int fun(int i)
{
    return (i++);
}
```

- ☐ 11
- ☐ 9
- ☒ 10
- ☐ 8

Clear selection

Which of the following is a temporary primary memory?

- ☒ ROM
- ☐ EPROM
- ☐ PROM
- ☐ RAM

Clear selection



Choose the correct answer

What is the difference between a flowchart and pseudocode?

- a. A flowchart is diagrammatic whilst pseudocode is written in a programming language (eg. Pascal or Java)
- b. A flowchart is textual but pseudocode is diagrammatic
- c. A flowchart is a diagrammatic description of an algorithm whilst pseudocode is a textual description of an algorithm
- d. A flowchart and pseudocode are the same thing

☐ a

☐ b

☒ c

☐ d

Clear selection



What is the output of the following program?

```
#include<stdio.h>
int add(int, int);

int main()
{
    int a = 4, b = 3, c;
    c = add(a, b);
    printf("c = %d\n", c);
    return 0;
}

int add(int a, int b)
{
    return (a+b);
}
```

- ☐ 3
- ☐ 4
- ☐ 8
- ☒ 7

Clear selection



The hexadecimal equivalent of decimal 241 is _____.

- A) (F1)₁₆
- B) (D3)₁₆
- C) (E7)₁₆
- D) (10A)₁₆

☒ A

☐ B

☐ C

☐ D

Clear selection

Choose the correct answer

Which of the following are tokens in C?

- a. Keywords
- b. Variables
- c. Constants
- d. All of the above

☐ a

☐ b

☐ c

☒ d

Clear selection



Which of the following device management activity is done by operating system?

- ☐ providing input/output subsystem between process and device driver
- ☐ handling the device caches and buffers
- ☐ detecting device failures
- ☒ all of the above

Clear selection



What is the output of the following program?

```
#include <stdio.h>

int main()
{
    int s = 1;

    switch(s)
    {
        default:
            printf("NIT");
        case 1:
            printf("Surat");
            break;
    }

    return 0;
}
```

- ☐ Error
- ☒ Surat
- ☐ NIT
- ☐ NITSurat

Clear selection

Which of the following correctly declares an array?

- ☐ int a;
- ☒ int a[20];
- ☐ a[20];
- ☐ array a[20];

Clear selection



What are the applications of a multidimensional array?

- ☒ All of the mentioned
- ☐ Matrix-Multiplication
- ☐ Minimum Spanning Tree
- ☐ Finding connectivity between nodes

Clear selection

What is the output of the C Program.?

```
#include <stdio.h>
int main()
{
    int a=0;
    a = 4 + 5/2*10 + 5;
    printf("%d", a);
    return 0;
}
```

- A. 29
- B. 5
- C. 4
- D. 34

- ☒ A
- ☐ B
- ☐ C
- ☐ D

Clear selection



What is the output of following program?

```
#include <stdio.h>

int main()
{
    int i=1;
    int a[3]={10};
    for(i=0;i<3;i++)
    {
        printf("%d",a[i]);
    }
    return 0;
}
```

- ☐ Compile Time Error
- ☒ 1000
- ☐ 10
- ☐ 000

Clear selection



Find the output of the following

```
#include <stdio.h>
#include <string.h>
int main()
{
    char str1[] = "SVNIT";
    char str2[20] = "Surat ";
    printf("%d", sizeof(str1)+sizeof(str2));
    return 0;
}
```

- ☐ 10
- ☐ 25
- ☐ 12
- ☒ 26

Clear selection



Find the output of the following

```
#include <stdio.h>

int main(void)
{
    char name[] = "SVNIT Surat";

    printf("%c", *name);
    printf("%c", *(name+(8-4)));
    printf("%c", *(name+7));
    return 0;
}
```

- ☐ STS
- ☐ SIS
- ☐ SVNIT Surat
- ☒ STu
- ☐ Slu

Clear selection



Find the output of given code snippet

```
#include <stdio.h>
int main()
{
    int a = 30, b = 40;
    if (a == b);
    printf("%d %d\n", a, b);
    return 0;
}
```

- ☒ None
- ☐ 30 40
- ☐ Compiler Error
- ☐ Run-time Error

Clear selection



What is the output of the following program?

```
#include <stdio.h>

struct node1
{
    char a;
    int b;
};

union node2
{
    char a;
    short b;
    int c;
};

int main()
{
    printf("%lu - ", sizeof(struct node1));
    printf("%lu", sizeof(union node2));

    return 0;
}
```

- ☐ 8 - 8
- ☐ 4 - 4
- ☒ 8 - 4
- ☐ 5 - 7

Clear selection



Consider the following C program

```
void f(int, short);  
void main()  
{  
    int i = 100;  
    short s = 12;  
    short *p = &s;  
    _____ ;    // call to f()  
}
```

Which one of the following expressions, when placed in the blank above, will **NOT** result in a type checking error?

- ☐ f(i,*p)
- ☐ f(i,*s)
- ☐ f(s,*s)
- ☐ i=f(i,s)



Convert the decimal number 14.875 to binary.

A) 1110.0111

B) 1110.1110

C) 1111.1011

D) 1100.1100

☐ A

☒ B

☐ C

☐ D

Clear selection



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

struct f
{
    char str[20];
};

int main()
{
    struct f s1, s2;
    strcpy(s1.str, "SvnitSurat");
    s2 = s1;
    s1.str[0] = 'G';
    printf("%s",s2.str);
    return 0;
}
```

- (a) Segmentation Fault
- (b) GvnitSurat
- (c) SvnitSurat
- (d) Compiler Error

☐ A

☐ B

☒ C

☐ D

Clear selection

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