C Quiz

Question #1: What is the correct output from the following code? 54% on 35899 times asked

```
#include <stdio.h>
int main(int argc, char** argv)
{
   int x = 3;
   printf("%d", x++ + ++x);
   return 1;
}
```

3

5

6

7

undefined

Question #2: What will the following code do? 65% on 16538 times asked

```
int main(int argc, char** argv) {
   char* ptr = NULL;
   free(ptr);
   return 0;
}
```

- core dump
- nothing, but the code is safe
- undefined behavior

Question #3: Which of the following differences between malloc and calloc are true? 54% on 13808 times asked

- 1) malloc allocates number of bytes passed as argument
- calloc allocates the product of number of elements multiplied by the size of each element, which are both passed as arguments.
- 3) both malloc and calloc return void*
- 4) both malloc and calloc initialize allocated memory to all 0
- 0 1, 2, 3, 4
- 0 1, 2, 3
- 0 1, 2
- 0 1
- none of the statements are true

n #7: How many bytes of memory are used to store a long long data type? 15070 times asked
4 bytes
8 bytes
16 bytes
32 bytes
It is implementation defined

Question #8: What should the program below print? 50% on 11881 times asked

- hello_World
- ello_World
- Ilo_World
- lo_World
- Illegal memory access, undefined behavior

```
#include<stdio.h>
int main()
{
   int i;
   char a[] = "\0";
   if(printf("%s", a))
      printf("The string is empty\n");
   else
      printf("The string is not empty\n");
   return 0;
}
```

- A. The string is empty
- B. The string is not empty

C. No output

```
#include<stdio.h>
int main()
{
    char p[] = "%d\n";
    p[1] = 'c';
    printf(p, 65);
    return 0;
}
```

A. A

B. a

C. c

```
#include<stdio.h>
#include<string.h>
int main()
{
    static char s[] = "Hello!";
    printf("%d\n", *(s+strlen(s)));
    return 0;
}
```

A. 8

B. 0

O C. 16

D. Error

Declare the following statement?
"A pointer to an array of three chars".

What do the following declaration signify?

```
int *ptr[30];
```

- A. ptr is a pointer to an array of 30 integer pointers.
- B. ptr is a array of 30 pointers to integers.
- C. ptr is a array of 30 integer pointers.
- D. ptr is a array 30 pointers.

What do the following declaration signify?

```
void *cmp();
```

- A. cmp is a pointer to an void type.
- B. cmp is a void type pointer variable.
- O. cmp is a function that return a void pointer.
- D. cmp function returns nothing.

If int is 2 bytes wide. What will be the output of the program?

```
#include <stdio.h>
void fun(char**);

int main()
{
    char *argv[] = {"ab", "cd", "ef", "gh"};
    fun(argv);
    return 0;
}

void fun(char **p)
{
    char *t;
    t = (p+= sizeof(int))[-1];
    printf("%s\n", t);
}
```

A. ab

B. cd

C. ef

D. gh

```
#include<stdio.h>
int main()
{
   typedef float f;
   static f *fptr;
   float fval = 90;
   fptr = &fval;
   printf("%f\n", *fptr);
   return 0;
}
```

A. 9

B. 0

C. 90.000000

Which of the following statements are correct about the below C-program?

```
#include<stdio.h>
int main()
{
   int x = 10, y = 100%90, i;
   for(i=1; i<10; i++)
   if(x != y);
      printf("x = %d y = %d\n", x, y);
   return 0;
}</pre>
```

- 1: The printf() function is called 10 times.
- 2: The program will produce the output x = 10 y = 10
- 3: The ; after the if(x!=y) will NOT produce an error.
- 4: The program will not produce output.
- A. 1

B. 2, 3

C. 3, 4

```
#include<stdio.h>
int main()
{
   int k, num=30;
   k = (num>5 ? (num <=10 ? 100 : 200): 500);
   printf("%d\n", num);
   return 0;
}</pre>
```

A. 200

B. 30

C. 100

Point out the error in the following program.

```
#include<stdio.h>
int main()
{
    struct emp
    {
        char name[20];
        float sal;
    };
    struct emp e[10];
    int i;
    for(i=0; i<=9; i++)
        scanf("%s %f", e[i].name, &e[i].sal);
    return 0;
}</pre>
```

- A. Suspicious pointer conversion
- B. Floating point formats not linked (Run time error)
- C. Cannot use scanf () for structures
- D. Strings cannot be nested inside structures.

T L - 1					aluba bla a all'a a finabian ia
The R	ceyw	ord used to transfer control from a fu	inctio	n ba	ick to the calling function is
_			_		
	Α.	switch		В.	goto
		switch go back	0		goto return

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;
}</pre>
```

- A. The function calculates the value of 1 raised to power num.
- B. The function calculates the square root of an integer
- C. The function calculates the factorial value of an integer
- D. None of above

Which of the statements is correct about the program?

```
#include<stdio.h>
int main()
{
    float a=3.14;
    char *j;
    j = (char*)&a;
    printf("%d\n", *j);
    return 0;
}
```

- A. It prints ASCII value of the binary number present in the first byte of a float variable a.
- B. It prints character equivalent of the binary number present in the first byte of a float variable a.
- C. It will print 3
- D. It will print a garbage value

Which of the following statements are correct about an array?

1: The array int num[26]; can store 26 elements.

2: The expression num[1] designates the very first element in the array.

3: It is necessary to initialize the array at the time of declaration.

4: The declaration num[SIZE] is allowed if SIZE is a macro.

O A. 1 O B. 1,4

O C. 2,3 O D. 2,4

If char=1, int=4, and float=4 bytes size, What will be the output of the program?

```
#include<stdio.h>
int main()
{
   char ch = 'A';
   printf("%d, %d, %d", sizeof(ch), sizeof('A'), sizeof(3.14f));
   return 0;
}
```

A. 1, 2, 4

B. 1, 4, 4

O C. 2, 2, 4

D. 2, 4, 8

```
#include<stdio.h>
int main()
{
   char str[] = "Nagpur";
   str[0]='K';
   printf("%s, ", str);
   str = "Kanpur";
   printf("%s", str+1);
   return 0;
}
```

- A. Kagpur, Kanpur
- B. Nagpur, Kanpur
- C. Kagpur, anpur

D. Error

Which of the following statement is correct about the program?

```
#include<stdio.h>

int main()
{
   FILE *fp;
   char ch;
   int i=1;
   fp = fopen("myfile.c", "r");
   while((ch=getc(fp))!=EOF)
   {
      if(ch == '\n')
        i++;
   }
   fclose(fp);
   return 0;
}
```

- A. The code counts number of characters in the file
- B. The code counts number of words in the file
- O. The code counts number of blank lines in the file
- D. The code counts number of lines in the file

How many times the while loop will get executed if a short int is 2 byte wide?

```
#include<stdio.h>
int main()
{
   int j=1;
   while(j <= 255)
   {
      printf("%c %d\n", j, j);
      j++;
   }
   return 0;
}</pre>
```

A. Infinite times

B. 255 times

C. 256 times

D. 254 times

Which of the following errors would be reported by the compiler on compiling the program given below?

```
#include<stdio.h>
int main()
{
    int a = 5;
    switch(a)
    {
       case 1:
       printf("First");

      case 2:
       printf("Second");

      case 3 + 2:
       printf("Third");

      case 5:
       printf("Final");
      break;
    }
    return 0;
}
```

- A. There is no break statement in each case.
- B. Expression as in case 3 + 2 is not allowed.
- C. Duplicate case case 5:
- O. No error will be reported.

Point out the error, if any in the program.

```
#include<stdio.h>
int main()
{
    int P = 10;
    switch(P)
    {
        case 10:
        printf("Case 1");

        case 20:
        printf("Case 2");
        break;

        case P:
        printf("Case 2");
        break;
}
return 0;
}
```

- A. Error: No default value is specified
- B. Error: Constant expression required at line case P:
- O. Error: There is no break statement in each case.
- D. No error will be reported.

```
#include<stdio.h>
int main()
{
   int i=2;
   printf("%d, %d\n", ++i, ++i);
   return 0;
}
```

- A. 3, 4
- B. 4, 3
- O C. 4, 4
- D. Output may vary from compiler to compiler

In the exp	=5 the order	of Assignm	ent is NO	T decided by Asso	ociativity of
	=5 the order	of Assignm	ent is NO		ociativity of
operators	=5 the order	of Assignm			ociativity of
operators	=5 the order	of Assignm			ociativity of

How many times the program will print "IndiaBIX"?

```
#include<stdio.h>
int main()
{
   printf("IndiaBIX");
   main();
   return 0;
}
```

A. Infinite times

B. 32767 times

C. 65535 times

D. Till stack overflows

```
#include<stdio.h>
int main()
{
    char *p;
    p="hello";
    printf("%s\n", *&*&p);
    return 0;
}
```

A. Ilo

B. hello

C. ello

D. h

Which files will get closed through the fclose () in the following program?

```
#include<stdio.h>
int main()
{
    FILE *fs, *ft, *fp;
    fp = fopen("A.C", "r");
    fs = fopen("B.C", "r");
    ft = fopen("C.C", "r");
    fclose(fp, fs, ft);
    return 0;
}
```

- A. "A.C" "B.C" "C.C"
- B. "B.C" "C.C"

O C. "A.C"

D. Error in fclose()

Which statement will you add in the following program to work it correctly?

```
#include<stdio.h>
int main()
  printf("%f\n", log(36.0));
   return 0;
```

- A. #include<conio.h>
- B. #include<math.h>
- C. #include<stdlib.h>
 D. #include<dos.h>

Which of the following statements correct about k used in the below statement? char ****k;

- A. k is a pointer to a pointer to a pointer to a char
- B. k is a pointer to a pointer to a pointer to a pointer to a char
- C. k is a pointer to a char pointer
- D. k is a pointer to a pointer to a char

What will be the output of the program in 16-bit platform (Turbo C under DOS)?

```
#include<stdio.h>
int main()
{
    printf("%d, %d, %d", sizeof(3.0f), sizeof('3'), sizeof(3.0));
    return 0;
}
```

A. 8, 1, 4

B. 4, 2, 8

O C. 4, 2, 4

D. 10, 3, 4

Point out the error in the program?

```
#include<stdio.h>
int main()
{
    struct emp
    {
        char name[20];
        float sal;
    };
    struct emp e[10];
    int i;
    for(i=0; i<=9; i++)
        scanf("%s %f", e[i].name, &e[i].sal);
    return 0;
}</pre>
```

- A. Error: invalid structure member
- B. Error: Floating point formats not linked
- C. No error
- D. None of above

A structure can contain similar or dissimilar elements

A. True

B. False

Point out the error in the program?

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

int main()
{
    unsigned char;
    FILE *fp;
    fp=fopen("trial", "r");
    if(!fp)
    {
        printf("Unable to open file");
        exit(1);
    }
    fclose(fp);
    return 0;
}
```

- A. Error: in unsigned char statement
- B. Error: unknown file pointer
- C. No error
- D. None of above

```
#include<stdio.h>

typedef struct error {int warning, err, exception;} ERROR;
int main()
{
    ERROR e;
    e.err=1;
    printf("%d\n", e.err);
    return 0;
}
```

A. 0

B. 1

O C. 2

D. Error

```
#include<stdio.h>
int main()
{
   const int i=0;
   printf("%d\n", i++);
   return 0;
}
```

A. 10

B. 11

C. No output

D. Error: ++needs a value

Which standard library function will you use to find the last occurance of a charact string in C?	er in a
A. strnchar() B. strchar()	
C. strrchar() D. strrchr()	

How many times "IndiaBIX" is get printed?

```
#include<stdio.h>
int main()
{
   int x;
   for(x=-1; x<=10; x++)
   {
      if(x < 5)
          continue;
      else
          break;
      printf("IndiaBIX");
   }
   return 0;
}</pre>
```

- A. Infinite times
- B. 11 times
- C. 0 times

D. 10 times

```
#include<stdio.h>
int addmult(int ii, int jj)
{
    int kk, ll;
    kk = ii + jj;
    ll = ii * jj;
    return (kk, ll);
}
int main()
{
    int i=3, j=4, k, l;
    k = addmult(i, j);
    l = addmult(i, j);
    printf("%d, %d\n", k, l);
    return 0;
}
```

A. 12, 12

B. 7,7

C. 7, 12

D. 12, 7

```
#include<stdio.h>
int *check(static int, static int);
int main()
   int *c;
   c = check(10, 20);
   printf("%d\n", c);
   return 0;
int *check(static int i, static int j)
{
   int *p, *q;
   p = \epsilon i;
   q = \epsilon j;
   if(i >= 45)
       return (p);
   else
      return (q);
}
```

- A. 10
- B. 20
- C. Error: Non portable pointer conversion
- D. Error: cannot use static for function parameters

If the size of integer is 4bytes, What will be the output of the program?

```
#include<stdio.h>
int main()
{
   int arr[] = {12, 13, 14, 15, 16};
   printf("%d, %d, %d\n", sizeof(arr), sizeof(*arr), sizeof(arr[0]));
   return 0;
}
```

A. 10, 2, 4

B. 20, 4, 4

C. 16, 2, 2

D. 20, 2, 2

```
#include<stdio.h>
int main()
{
   int i;
   char a[] = "\0";
   if(printf("%s", a))
      printf("The string is empty\n");
   else
      printf("The string is not empty\n");
   return 0;
}
```

- A. The string is empty
- B. The string is not empty

C. No output

D. 0

If a char is 1 byte wide, an integer is 2 bytes wide and a long integer is 4 bytes wide then will the following structure always occupy 7 bytes?

```
struct ex
{
   char ch;
   int i;
   long int a;
};
```

A. YesB. No

Point out the error/warning in the program?

```
#include<stdio.h>
int main()
{
    unsigned char ch;
    FILE *fp;
    fp=fopen("trial", "r");
    while((ch = getc(fp))!=EOF)
        printf("%c", ch);
    fclose(fp);
    return 0;
}
```

- A. Error: in unsigned char declaration
- B. Error: while statement
- C. No error
- D. It prints all characters in file "trial"

Can I inc	rease the size of dynamically allocate	d arra	ay?	
Δ.	Yes		B.	No

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

int main()
{
    char *i = "55.555";
    int result1 = 10;
    float result2 = 11.111;
    result1 = result1+atoi(i);
    result2 = result2+atof(i);
    printf("%d, %f", result1, result2);
    return 0;
}
```

A. 55, 55.555

B. 66, 66.666600

C. 65, 66.666000

D. 55, 55

In a function two return statements should never occur.

A. Yes

B. No

It is necessary that a header files should have a .h extension?

A. Yes

B. No

```
#include<stdio.h>
int main()
   int x=30, *y, *z;
   y=&x; /* Assume address of x is 500 and integer is 4 byte size */
   *y++=*z++;
   printf("x=%d, y=%d, z=%d\n", x, y, z);
   return 0;
```

- A. x=31, y=502, z=502
- B. x=31, y=500, z=500
- C. x=31, y=498, z=498
 D. x=31, y=504, z=504

```
#include<stdio.h>

int main()
{
    void *vp;
    char ch=74, *cp="JACK";
    int j=65;
    vp=&ch;
    printf("%c", *(char*)vp);
    vp=&j;
    printf("%c", *(int*)vp);
    vp=cp;
    printf("%s", (char*)vp+2);
    return 0;
}
```

A. JCK

B. J65K

C. JAK

D. JACK

```
#include<stdio.h>
#include<string.h>
int main()
{
    char str[] = "India\0\BIX\0";
    printf("%s\n", str);
    return 0;
}
```

A. BIX

B. India

C. India BIX

D. India\0BIX

Point out the error in the program?

```
#include<stdio.h>
#include<string.h>
void modify(struct emp*);
struct emp
{
    char name[20];
    int age;
};
int main()
{
    struct emp e = {"Sanjay", 35};
    modify(se);
    printf("%s %d", e.name, e.age);
    return 0;
}
void modify(struct emp *p)
{
    p ->age=p->age+2;
}
```

- A. Error: in structure
- B. Error: in prototype declaration unknown struct emp
- C. No error
- D. None of above

The '.' operato	or can be used acce	ess structure eleme	nts usina a stru	ucture variable.
The '.' operato	or can be used acce e		nts using a stru B. False	ucture variable.
				ucture variable.
				ucture variable.

```
#include<stdio.h>
int main()
{
    float a = 0.7;
    if(0.7 > a)
        printf("Hi\n");
    else
        printf("Hello\n");
    return 0;
}
```

A. Hi

B. Hello

C. Hi Hello

D. None of above

Which of the following statements are correct about an if-else statements in a C-program?

- Every if-else statement can be replaced by an equivalent statements using ?: operators
- 2: Nested if-else statements are allowed.
- 3: Multiple statements in an if block are allowed.
- 4: Multiple statements in an else block are allowed.

A. 1 and 2

B. 2 and 3

C. 1, 2 and 4

D. 2, 3, 4

```
#include<stdio.h>
#include<math.h>
int main()
{
   printf("%f\n", sqrt(36.0));
   return 0;
}
```

- A. 6.0
- C. 6.000000

- B. 6

A. Hello

B. HelloHello

C. No output

D. ello

```
#include<stdio.h>
int main()
{
   char str = "IndiaBIX";
   printf("%s\n", str);
   return 0;
}
```

A. Error

- B. IndiaBIX
- C. Base address of str
- D. No output

```
#include<stdio.h>
int main()
{
   const int x=5;
   const int *ptrx;
   ptrx = &x;
   *ptrx = 10;
   printf("%d\n", x);
   return 0;
}
```

A. 5

B. 10

C. Error

D. Garbage value

Point out the error in the program.

```
#include<stdio.h>
const char *fun();
int main()
{
    char *ptr = fun();
    return 0;
}
const char *fun()
{
    return "Hello";
}
```

- A. Error: Lvalue required
- B. Error: cannot convert 'const char *' to 'char *'.
- C. No error and No output
- D. None of above

Input	/out	put function pr	ototypes and	macros a	re d	efine	d in which header fil	e?
	Α.	conio.h				В.	stdlib.h	
	c.	stdio.h				D.	dos.h	

 What is the correct value to return to the operating system upon the successful completion of a program? -1 1 0 Programs do not return a value. 	
2. What is the only function all C programs must contain? A. start() B. system() C. main() D. program()	I
 What punctuation is used to signal the beginning and end of code blocks? { } -> and <- BEGIN and END (and) 	
4. What punctuation ends most lines of C code? A B. ; C. : D. '	
5. Which of the following is a correct comment? A. */ Comments */ B. ** Comment ** C. /* Comment */ D. { Comment }	
6. Which of the following is not a correct variable type? A. float B. real C. int D. double	
7. Which of the following is the correct operator to compare two variables? A. := B. = C. equal D. ==	

```
1. Which of the following is true?
A. 1
B. 66
C. .1
D. -1
E. All of the above
2. Which of the following is the boolean operator for logical-and?
A. &
B. &&
C. |
D. |&
3. Evaluate !(1 && !(0 || 1)).
A. True
B. False
C. Unevaluatable
4. Which of the following shows the correct syntax for an if statement?
A. if expression
B. if { expression C. if ( expression )
D. expression if
```

```
1. What is the final value of x when the code int x; for(x=0; x<10; x++) {} is run?
```

- A. 10
- B. 9
- C. 0
- D. 1
- 2. When does the code block following while(x<100) execute?
- A. When x is less than one hundred
- B. When x is greater than one hundred
- C. When x is equal to one hundred
- D. While it wishes
- 3. Which is not a loop structure?
- A. for
- B. do while
- C. while
- D. repeat until
- 4. How many times is a do while loop guaranteed to loop?
- A. 0
- B. Infinitely
- C. 1 D. Variable

```
1. Which is not a proper prototype?
A. int funct(char x, char y);
B. double funct(char x)
C. void funct();
D. char x();
2. What is the return type of the function with prototype: "int func(char x, float v, double t);"
A. char
B. int
C. float
D. double
3. Which of the following is a valid function call (assuming the function exists)?
A. funct;
B. funct x, y;
C. funct();
D. int funct();
4. Which of the following is a complete function?
A. int funct();
B. int funct(int x) {return x=x+1;}
C. void funct(int) {printf( "Hello" );
D. void funct(x) {printf( "Hello" ); }
```

```
1. Which follows the case statement?
A.:
B.;
C. -
D. A newline
2. What is required to avoid falling through from one case to the next?
A. end;
B. break;
C. Stop;
D. A semicolon.
3. What keyword covers unhandled possibilities?
A. all
B. contingency
C. default
D. other
4. What is the result of the following code?
int x=0;
switch(x)
{
  case 1: printf( "One" );
  case 0: printf( "Zero" );
  case 2: printf( "Hello World" );
}
A. One
B. Zero
C. Hello World
D. ZeroHello World
```

 Which of the following is the proper declaration of a pointer? int x; int &x ptr x; int *x;
 Which of the following gives the memory address of integer variable a? *a; a; &a address(a);
 Which of the following gives the memory address of a variable pointed to by pointer a? a; *a; &a address(a);
 4. Which of the following gives the value stored at the address pointed to by pointer a? A. a; B. val(a); C. *a; D. &a

```
1. Which of the following accesses a variable in structure b?
A. b->var;
B. b.var;
C. b-var;
D. b>var;
2. Which of the following accesses a variable in a pointer to a structure, *b?
A. b->var;
B. b.var;
C. b-var;
D. b>var;
3. Which of the following is a properly defined struct?
A. struct {int a;}
B. struct a_struct {int a;}
C. struct a_struct int a;
D. struct a_struct {int a;};
4. Which properly declares a variable of struct foo?
A. struct foo;
B. struct foo var;
C. foo;
D. int foo;
```

 Which of the following correctly declares an array? int anarray[10]; int anarray; anarray{10}; array anarray[10];
2. What is the index number of the last element of an array with 29 elements?A. 29B. 28C. 0D. Programmer-defined
3. Which of the following is a two-dimensional array? A. array anarray[20][20]; B. int anarray[20][20]; C. int array[20, 20]; D. char array[20];
 Which of the following correctly accesses the seventh element stored in foo, an array with 100 elements? foo[6]; foo[7]; foo(7); foo;
5. Which of the following gives the memory address of the first element in array foo, an array with 100 elements A. foo[0]; B. foo; C. &foo D. foo[1];

```
1. Which of the following is a string literal?
A. Static String
B. "Static String"
C. 'Static String'
D. char string[100];
2. What character ends all strings?
A. '.'
B. ''
C. '\0'
D. '\n'
3. Which of the following reads in a string named x with one hundred characters?
A. fgets(x, 101, stdin);
B. fgets(x, 100, stdin);
C. readline(x, 100, '\n');
D. read(x);
4. Which of the following functions compares two strings?
A. compare();
B. stringcompare();
C. cmp();
D. strcmp();
5. Which of the following adds one string to the end of another?
A. append();
B. stringadd();
C. strcat();
```

D. stradd();

- 1. What object do you use to represent a file in C?
- A. FILE*
- B. fopen
- C. printf
- D. fprintf
- 2. Before you can read or write to a file in C, what do you need to do?
- A. Call fopen on the file
- B. Create the file
- C. Call fclose on the file
- D. Use fprintf
- 3. How do you write a string of text into a file?
- A. Open file and use fprintf.
- B. Open a file and use printf, the output will go to the file instead of the screen.
- C. Open a file, and use fputc repeatedly.
- D. Use fread to read data into the file.
- 4. What flag do you need to pass to fopen to append to an existing file instead of recreating the file?
- A. a
- B. r
- C. w
- D. W+
- 5. How do you open a file for binary IO? A. Use the "b" flag to fopen
- B. Files are opened for binary IO by default
- C. Use fread and fwrite
- D. You need to use a special file type, BINARYFILE*

A short integer is at least 16	hite wide and a long integer	is at least 32 bits wide.
O A. True	B. False	

Which of the following correctly shows the hierarchy of arithmetic operations in C?

O A. /+*-

O B. *-/+

O C. +-/*

O. /*+-

```
#include<stdio.h>
int sumdig(int);
int main()
  int a, b;
  a = sumdig(123);
  b = sumdig(123);
  printf("%d, %d\n", a, b);
   return 0;
int sumdig(int n)
   int s, d;
   if(n!=0)
      d = n%10;
      n = n/10;
       s = d+sumdig(n);
   }
      return 0;
   return s;
```

A. 4, 4

B. 3, 3

C. 6, 6

D. 12, 12

Point out the error in the program

```
f(int a, int b)
{
   int a;
   a = 20;
   return a;
}
```

- A. Missing parenthesis in return statement
- B. The function should be defined as int f (int a, int b)
- O C. Redeclaration of a
- D. None of above

Which statement will you add to the following program to ensure that the program outputs "IndiaBIX" on execution?

```
#include<stdio.h>
int main()
{
    char s[] = "IndiaBIX";
    char t[25];
    char *ps, *pt;
    ps = s;
    pt = t;
    while(*ps)
        *pt++ = *ps++;

    /* Add a statement here */
    printf("%s\n", t);
    return 0;
}
```

A. *pt=";

B. pt='\0';

C. pt='\n';

D. *pt='\0';

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

int main()
{
    char str1[20] = "Hello", str2[20] = "World";
    printf("%s\n", strcpy(str2, strcat(str1, str2)));
    return 0;
}
```

A. Hello

B. World

C. Hello World

D. WorldHello

```
#include<stdio.h>
void swap(char *, char *);
int main()
{
    char *pstr[2] = {"Hello", "IndiaBIX"};
    swap(pstr[0], pstr[1]);
    printf("%s\n%s", pstr[0], pstr[1]);
    return 0;
}
void swap(char *t1, char *t2)
{
    char *t;
    t=t1;
    t1=t2;
    t2=t;
}
```

A. IndiaBIX Hello

B. Address of "Hello" and "IndiaBIX"

C. Hello IndiaBIX D. Iello HndiaBIX

Which of the following cannot be checked in a switch-case statement?					
	Α.	Character		В.	Integer
0	c.	Float	0	D.	enum

Point out the error, if any in the program.

```
#include<stdio.h>
int main()
  int a = 10, b;
  a >=5 ? b=100: b=200;
  printf("%d\n", b);
  return 0;
```

A. 100

- B. 200
- C. Error: L value required for b
 D. Garbage value

Which of the following statements are correct about the program?

```
#include<stdio.h>
int main()
{
   int x = 30, y = 40;
   if(x == y)
        printf("x is equal to y\n");

   else if(x > y)
        printf("x is greater than y\n");

   else if(x < y)
        printf("x is less than y\n")
   return 0;
}</pre>
```

- A. Error: Statement missing
 B. Error: Expression syntax
- C. Error: Lvalue required
 D. Error: Rvalue required

Are the following two statement same?

A. Yes

B. No

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

int main()
{
    char sentence[80];
    int i;
    printf("Enter a line of text\n");
    gets(sentence);
    for(i=strlen(sentence)-1; i >=0; i--)
        putchar(sentence[i]);
    return 0;
}
```

- A. The sentence will get printed in same order as it entered
- B. The sentence will get printed in reverse order
- C. Half of the sentence will get printed
- D. None of above

A. 103 DotNet

B. 102 Java

C. 103 PHP

D. 104 DotNet

Point out the error in the program?

```
struct emp
{
  int ecode;
  struct emp *e;
};
```

- A. Error: in structure declaration
- B. Linker Error
- C. No Error
- D. None of above

What do the following declaration signify?

```
int *f();
```

- A. <u>f</u> is a pointer variable of function type.
- B. f is a function returning pointer to an int.
- C. f is a function pointer.
- D. f is a simple declaration of pointer variable.

```
#include<stdio.h>
int main()
{
   int x=1, y=1;
   for(; y; printf("%d %d\n", x, y))
   {
      y = x++ <= 5;
   }
   printf("\n");
   return 0;
}</pre>
```

- A. 21
- O C. 21

- B. 41
- D. 22

Which of the following is the correct order of evaluation for the below expression?

z = x + y * z / 4 % 2 - 1

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

int main()
{
    int i=0;
    i++;
    if(i<=5)
    {
        printf("IndiaBIX");
        exit(1);
        main();
    }
    return 0;
}</pre>
```

- A. Prints "IndiaBIX" 5 times
- B. Function main () doesn't calls itself
- C. Infinite loop
- D. Prints "IndiaBIx"

```
#include<stdio.h>
int main()
{
    int i, a[] = {2, 4, 6, 8, 10};
    change(a, 5);
    for(i=0; i<=4; i++)
        printf("%d, ", a[i]);
    return 0;
}
void change(int *b, int n)
{
    int i;
    for(i=0; i<n; i++)
        *(b+1) = *(b+i)+5;
}</pre>
```

A. 7, 9, 11, 13, 15

B. 2, 15, 6, 8, 10

O. 246810

D. 3, 1, -1, -3, -5

Point out the error in the program?

```
struct emp
{
  int ecode;
  struct emp e;
};
```

- A. Error: in structure declaration
- B. Linker Error
- C. No Error
- D. None of above

```
#include<stdio.h>
int main()
{
   FILE *ptr;
   char i;
   ptr = fopen("myfile.c", "r");
   while((i=fgetc(ptr))!=NULL)
       printf("%c", i);
   return 0;
}
```

- A. Print the contents of file "myfile.c"
- B. Print the contents of file "myfile.c" upto NULL character
- C. Infinite loop
- D. Error in program

```
#include<stdio.h>
int main()
{
    const c = -11;
    const int d = 34;
    printf("%d, %d\n", c, d);
    return 0;
}
```

A. Error

B. -11, 34

O C. 11, 34

D. None of these

What do the following declaration signify?

```
char *arr[10];
```

- A. arr is a array of 10 character pointers.
- B. arr is a array of function pointer.
- C. arr is a array of characters.
- D. arr is a pointer to array of characters.

Point out the correct statements are correct about the program below?

```
#include<stdio.h>
int main()
{
   char ch;
   while(x=0;x<=255;x++)
      printf("ASCII value of %d character %c\n", x, x);
   return 0;
}</pre>
```

- O A. The code generates an infinite loop
- B. The code prints all ASCII values and its characters
- O. Error: x undeclared identifier
- D. Error: while statement missing

Which of the following is the correct usage of conditional operators used in C?

A. a>b?c=30:c=40;

B. a>b?c=30;

C. max = a>b ? a>c?a:c:b>c?b:c
D. return (a>b)?(a:b)

```
#include<stdio.h>
#include<math.h>
int main()
   float n=1.54;
  printf("%f, %f\n", ceil(n), floor(n));
   return 0;
```

- A. 2.000000, 1.000000
- B. 1.500000, 1.500000
- O C. 1.550000, 2.000000 D. 1.000000, 2.000000

```
#include<stdio.h>
int main()
{
   float arr[] = {12.4, 2.3, 4.5, 6.7};
   printf("%d\n", sizeof(arr)/sizeof(arr[0]));
   return 0;
}
```

A. 5

B. 4

C. 6

O D. 7

What will be the output of the program (Turbo C in 16 bit platform DOS)?

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

int main()
{
    char *str1 = "India";
    char *str2 = "BIX";
    char *str3;
    str3 = strcat(str1, str2);
    printf("%s %s\n", str3, str1);
    return 0;
}
```

A. IndiaBIX India

B. IndiaBIX IndiaBIX

C. India India

D. Error