

Pointers

Total points 69/69

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✓ Q45) *

1/1

In the following program add a statement in the function `fact()` such that the factorial gets stored in `j`.

```
#include<stdio.h>
void fact(int*);

int main()
{
    int i=5;
    fact(&i);
    printf("%d\n", i);
    return 0;
}

void fact(int *j)
{
    static int s=1;
    if(*j!=0)
    {
        s = s**j;
        *j = *j-1;
        fact(j);
        /* Add a statement here */
    }
}
```

- ☐ A. `j=s;`
- ☒ B. `*j=s;`
- ☐ C. `*j=&s;`
- ☐ D. `&j=s;`



✓ Q51) *

1/1

What will be output of following program?

```
#include<stdio.h>
int main(){
    int a = 320;
    char *ptr;
    ptr = ( char *)&a;
    printf("%d ",*ptr);
    return 0;
```

- ☐ (A) 2
- ☐ (B) 320
- ☒ (C) 64
- ☐ (D) Compilation error
- ☐ (E) None of above



- ✓ Q34)What will be the output of the program assuming that the array begins at the location 1002 and size of an integer is 4 bytes? *1/1

```
#include<stdio.h>

int main()
{
    int a[3][4] = { 1, 11, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 };
    printf("%u, %u, %u\n", a[0]+1, *(a[0]+1), (*(a+0)+1));
    return 0;
}
```

- ☐ A. 448, 4, 4
- ☐ B. 520, 2, 2
- ☐ C. 1006, 2, 2
- ☐ D. Error
- ☒ E. 1006,11,11



✓ Q30) *

1/1

What will be the output of the program ?

```
#include<stdio.h>

int main()
{
    int i=3, *j, k;
    j = &i;
    printf("%d\n", i**j*i+*j);
    return 0;
}
```

- ☒ A. 30
- ☐ B. 27
- ☐ C. 9
- ☐ D. 3



- ✓ Q7) Assume that an int variable takes 4 bytes and a char variable takes 1 byte *1/1

```
#include<stdio.h>
int main()
{
    int arr[] = {10, 20, 30, 40, 50, 60};
    int *ptr1 = arr;
    int *ptr2 = arr + 5;
    printf("Number of elements between two pointer are: %d.",
           (ptr2 - ptr1));
    printf("Number of bytes between two pointers are: %d",
           (char*)ptr2 - (char*) ptr1);
    return 0;
}
```

- ☒ (A) Number of elements between two pointer are: 5. Number of bytes between two pointers are: 20 ✓
- ☐ (B) Number of elements between two pointer are: 20. Number of bytes between two pointers are: 20
- ☐ (C) Number of elements between two pointer are: 5. Number of bytes between two pointers are: 5
- ☐ (D) Compiler Error
- ☐ (E) Runtime Error



✓ Q52) *

1/1

What will be output of following program?

```
#include<stdio.h>
int main() {
    int i = 3;
    int *j;
    int **k;
    j=&i;
    k=&j;
    printf("%u %u %d ", k, *k, **k);
    return 0;
}
```

- ☒ (A) Address, Address, 3
- ☐ (B) Address, 3, 3
- ☐ (C) 3, 3, 3
- ☐ (D) Compilation error
- ☐ (E) None of above



✓ Q70) *

1/1

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

int main()
{
    int c;
    c = check(10, 20);
    printf("c=%d\n", c);
    return 0;
}

int check(int i, int j)
{
    int *p, *q;
    p=&i;
    q=&j;
    i>=45 ? return(*p) : return(*q);
}
```

- ☐ A. Print 10
- ☐ B. Print 20
- ☐ C. Print 1
- ☒ D. Compile error



✓ Q33) *

1/1

What will be the output of the program ?

```
#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 = &i;
    q = &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



✓ Q43) *

1/1

In the following program add a statement in the function `fun()` such that address of `a` gets stored in `j`?

```
#include<stdio.h>
int main()
{
    int *j;
    void fun(int**);
    fun(&j);
    return 0;
}
void fun(int **k)
{
    int a=10;
    /* Add a statement here */
}
```

- ☐ A. `**k=a;`
- ☐ B. `k=&a;`
- ☒ C. `*k=&a`
- ☐ D. `&k=*a`



✓ Q48) *

1/1

Is there any difference between the following two statements?

```
char *p=0;
char *t=NULL;
```

- A. Yes
- B. No

- ☐ A
- ☒ B



✓ Q54) *

1/1

What will be output of following program?

```
#include<stdio.h>
#include<string.h>
int main(){
    register a = 25;
    int far *p;
    p=&a;
    printf("%d ",*p);
    return 0;
}
```

- ☐ (A) 25
- ☐ (B) 4
- ☐ (C) Address
- ☒ (D) Compilation error
- ☐ (E) None of above



✓ Q6) *

1/1

Assume that float takes 4 bytes, predict the output of 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;
}
```

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



✓ Q15) *

1/1

```
#include<stdio.h>

void swap (char *x, char *y)
{
    char *t = x;
    x = y;
    y = t;
}

int main()
{
    char *x = "geeksquiz";
    char *y = "geeksforgeeks";
    char *t;
    swap(x, y);
    printf("(%s, %s)", x, y);
    t = x;
    x = y;
    y = t;
    printf("\n(%s, %s)", x, y);
    return 0;
}
```

(geeksquiz, geeksforgeeks)
(geeksforgeeks, geeksquiz)

☒ A

(geeksforgeeks, geeksquiz)
(geeksquiz, geeksforgeeks)

☐ B

☐ C

```
(geeksquiz, geeksforgeeks)
(geeksquiz, geeksforgeeks)
```

☐ D

```
(geeksforgeeks, geeksquiz)
(geeksforgeeks, geeksquiz)
```

✓ Q26 *

1/1

Consider the following variable declarations and definitions in C

```
i) int var_9 = 1;
ii) int 9_var = 2;
iii) int _ = 3;
```

- ☒ Both i) and iii) are valid.
- ☐ Only i) is valid.
- ☐ Both i) and ii) are valid.
- ☐ All are valid.



✓ Q58) *

1/1

What will be output of following program?

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

- ☒ (A) 1
- ☐ (B) 5
- ☐ (C) -5
- ☐ (D) Compilation error
- ☐ (E) None of above



✓ Q66) *

1/1

What will be output when you will execute following c code?

```
#include<stdio.h>
void main() {
    static int a=2,b=4,c=8;
    static int *arr1[2]={&a,&b};
    static int *arr2[2]={&b,&c};
    int* (*arr[2])[2]={&arr1,&arr2};
    printf("%d %d\t",*(*arr[0])[1],  *(*(**(arr+1)+1)));
}
```

- ☐ (A) 2 4
- ☐ (B) 2 8
- ☐ (C) 4 2
- ☒ (D) 4 8
- ☐ (E) None of the above



✓ Q38) *

1/1

What will be the output of the program ?

```
#include<stdio.h>

int main()
{
    char str[] = "peace";
    char *s = str;
    printf("%s\n", s++ +3);
    return 0;
}
```

- ☐ [A]. peace
- ☐ [B]. eace
- ☐ [C]. ace
- ☒ [D]. ce
- ☐ [E]. e



✓ Q61) *

1/1

What will be output of following program?

```
#include<stdio.h>
int main() {
    int i = 5;
    int *p;
    p = &i;
    printf(" %u %u", *p , &*p);
    return 0;
}
```

- ☐ A) 5 Address
- ☒ (B) Address Address
- ☐ (C) Address 5
- ☐ (D) Compilation error
- ☐ (E) None of above



✓ Q20) *

1/1

What will be the output produced by the following C code:

```
int main()
{
    int array[5][5];
    printf("%d", ( (array == *array) && (*array == array[0]) ));
    return 0;
}
```

- ☒ 1
- ☐ 0
- ☐ 2
- ☐ -1



✓ Q44) *

1/1

Which of the statements is correct about the program?

```
#include<stdio.h>

int main()
{
    int arr[3][3] = {1, 2, 3, 4};
    printf("%d\n", *((*(arr))) );
    return 0;
}
```

- ☐ [A]. Output: Garbage value
- ☐ [B]. Output: 1
- ☐ [C]. Output: 3
- ☒ [D]. Error: Invalid indirection



✓ Q29) *

1/1

What will be the output of the program ?

```
#include<stdio.h>

int main()
{
    static char *s[] = {"black", "white", "pink", "violet"};
    char **ptr[] = {s+3, s+2, s+1, s}, ***p;
    p = ptr;
    ++p;
    printf("%s", **p+1);
    return 0;
}
```

- ☒ [A] ink
- ☐ [B]. ack
- ☐ [C]. ite
- ☐ [D]. let



✓ Q24)What does the following expression means ? char *(*(* a[N]) ()) (); * 1/1

- ☐ a pointer to a function returning array of n pointers to function returning character pointers.
- ☐ a function return array of N pointers to functions returning pointers to characters
- ☐ an array of n pointers to function returning pointers to characters
- ☒ an array of n pointers to function returning pointers to functions returning pointers to characters.
- ☐ all of them



✓ Q25) *

1/1

```
#include "stdio.h"
int main()
{
    void *pVoid;
    pVoid = (void*)0;
    printf("%lu", sizeof(pVoid));
    return 0;
}
```

- ☐ Assigning (void *)0 to pVoid isn't correct because memory hasn't been allocated. That's why no compile error but it'll result in run time error.
- ☐ Assigning (void *)0 to pVoid isn't correct because a hard coded value (here zero i.e. 0) can't assigned to any pointer. That's why it'll result in compile error.
- ☒ No compile issue and no run time issue. And the size of the void pointer i.e. pVoid would equal to size of int. ✓
- ☐ sizeof() operator isn't defined for a pointer of void type.



✓ Q56) *

1/1

What will be output of following program?

```
#include<stdio.h>
int main(){
    char arr[10];
    arr = "world";
    printf("%s",arr);
    return 0;
}
```

- ☐ (A) world
- ☐ (B) w
- ☐ (C) Null
- ☒ (D) Compilation error
- ☐ (E) None of above



✓ Q59) *

1/1

What will be output of following program?

```
#include<stdio.h>
unsigned long int (* avg())[3]{
    static unsigned long int arr[3] = {1,2,3};
    return &arr;
}
int main(){
    unsigned long int (*ptr)[3];
    ptr = avg();
    printf("%d" , *(*ptr+2));
    return 0;
}
```

- ☐ (A) 1
- ☐ (B) 2
- ☒ (C) 3
- ☐ (D) Compilation error
- ☐ (E) None of above

✓



✓ Q62) *

1/1

(q) What will be output of following c code?

```
void main()
{
    struct field
    {
        int a;
        char b;
    }bit;
    struct field bit1={5, 'A'};
    char *p=&bit1;
    *p=45;
    clrscr();
    printf("\n%d",bit1.a);
    getch();
}
```

- ☐ 5
- ☒ 45
- ☐ 0
- ☐ None of above

✓ Q23) The following statement in 'C' `int (*f())[];` declares *

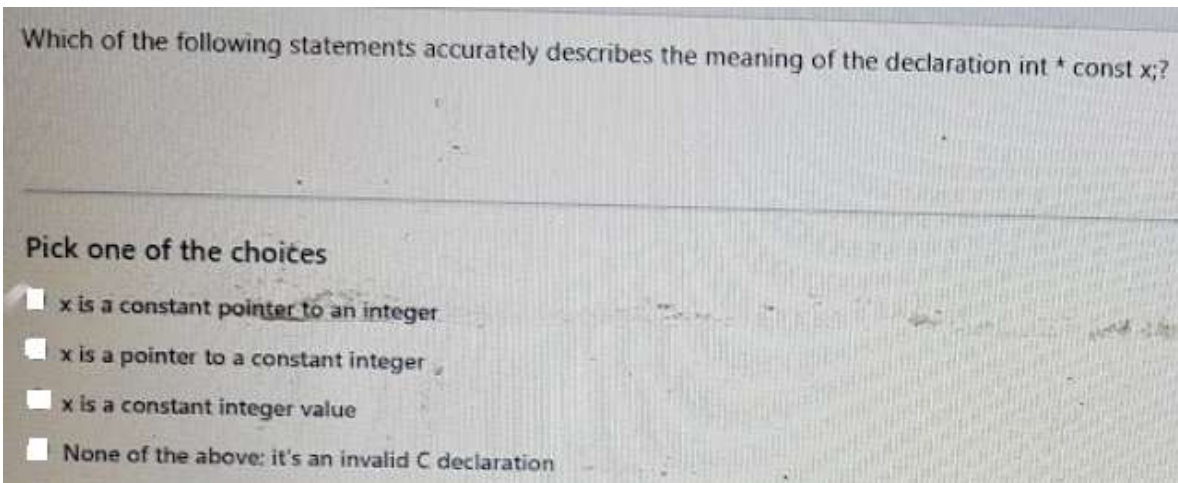
1/1

- ☒ a function returning a pointer to an array of integers.
- ☐ a function returning an array of pointers to integers.
- ☐ array of functions returning pointers to integers.
- ☐ an illegal statement.



✓ Q1) *

1/1

☒ A☐ B☐ C☐ D

✓ Q9) *

1/1

```
int main()
{
    char *ptr = "GeeksQuiz";
    printf("%cn", *&*ptr);
    return 0;
}
```

- ☐ Compiler Error
- ☐ Garbage Value
- ☐ Runtime Error
- ☒ G
- ☐ GeeksQuiz



✓ Q65) *

1/1

What will be output when you will execute following c code?

```
#include<stdio.h>
void main() {
    int array[2][3]={5,10,15,20,25,30};
    int (*ptr)[2][3]=&array;
    printf("%d\t",***ptr);
    printf("%d\t",***(ptr+1));
    printf("%d\t",**(ptr+1));
    printf("%d\t",*(*(ptr+1)+2));
}
```

- ☒ (A) 5 Garbage 20 30
- ☐ (B) 10 15 30 20
- ☐ (C) 5 15 20 30
- ☐ (D) Compilation error
- ☐ (E) None of the above



✓ Q53) *

1/1

What will be output of following program?

```
#include<stdio.h>
#include<string.h>
int main() {
    char *ptr1 = NULL;
    char *ptr2 = 0;
    strcpy(ptr1, " c");
    strcpy(ptr2, "questions");
    printf("\n%s %s", ptr1, ptr2);
    return 0;
}
```

- ☐ (A) c questions
- ☐ (B) c (null)
- ☒ (C) (null) (null)
- ☐ (D) Compilation error
- ☐ (E) None of above



✓ Q41) *

1/1

Point out the compile time error in the program given below.

```
#include<stdio.h>

int main()
{
    int *x;
    *x=100;
    return 0;
}
```

- ☐ A. Error: invalid assignment for x
- ☐ B. Error: suspicious pointer conversion
- ☒ C. No error
- ☐ D. None of above



✓ Q16) *

1/1

What does the following C-statement declare?

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

- ☐ A function that takes an integer pointer as argument and returns an integer.
- ☐ A function that takes an integer as argument and returns an integer pointer.
- ☒ A pointer to a function that takes an integer pointer as argument and returns an integer. ✓
- ☐ A function that takes an integer pointer as argument and returns a function pointer



✓ Q64) *

1/1

What will be output when you will execute following c code?

```
#include<stdio.h>
void main() {
    short num[3][2]={3,6,9,12,15,18};
    printf("%d  %d",*(num+1)[1],** (num+2));
}
```

☐ (A) 12 18☐ (B) 18 18☒ (C) 15 15☐ (D) 12 15☐ (E) Compilation error

✓ Q63) *

1/1

```
void main()
{
    struct bitfield
    {
        unsigned a:5;
        unsigned c:5;
        unsigned b:6;

    }bit;
    char *p;
    struct bitfield *ptr,bit1={1,3,3};
    p=&bit1;
    p++;
    clrscr();
    printf("%d",*p);
    getch();
}
```

- ☐ 3
- ☐ 5
- ☒ 12
- ☐ none of above



✓ Q37) *

1/1

What will be the output of the program ?

```
#include<stdio.h>

int main()
{
    printf("%c\n", 7["IndiaBIX"]);
    return 0;
}
```

- ☐ [A]. Error: in printf
- ☐ [B]. Nothing will print
- ☒ [C]. print "X"
- ☐ [D]. print "7"



✓ Q12) *

1/1

Consider this C code to swap two integers and these five statements after it:

```
void swap(int *px, int *py)
{
    *px = *px - *py;
    *py = *px + *py;
    *px = *py - *px;
}
```

S1: will generate a compilation error S2: may generate a segmentation fault at runtime depending on the arguments passed S3: correctly implements the swap procedure for all input pointers referring to integers stored in memory locations accessible to the process S4: implements the swap procedure correctly for some but not all valid input pointers S5: may add or subtract integers and pointers.

- ☐ S1
- ☐ S2 and S3
- ☒ S2 and S4
- ☐ S2 and S5



✓ Q67) *

1/1

What will be output when you will execute following c code?

```
#include<stdio.h>
typedef struct{
    char *name;
    double salary;
}job;
void main(){
    static job a={"TCS",15000.0};
    static job b={"IBM",25000.0};
    static job c={"Google",35000.0};
    int x=5;
    job * arr[3]={&a,&b,&c};
    printf("%s %f\t", (3,x>>5-4) [*arr]);
}
double myfun(double d){
    d-=1;
    return d;
}
```

- ☐ (A) TCS 15000.000000
- ☐ (B) IBM 25000.000000
- ☒ (C) Google 35000.000000
- ☐ (D) Compilation error
- ☐ (E) None of the above



✓ Q68) *

1/1

What will be output if you will compile and execute the following c code?

```
int * call();  
void main(){  
    int *ptr;  
    ptr=call();  
    clrscr();  
    printf("%d", *ptr);  
}  
int * call(){  
    int a=25;  
    a++;  
    return &a;  
}
```

- ☐ A) 25
- ☐ (B) 26
- ☐ (C) Any address
- ☒ (D) Garbage value
- ☐ (E) Compiler error



✓ Q3) *

1/1

What is the output of following program?

```
#include <stdio.h>
void fun(int x)
{
    x = 30;
}

int main()
{
    int y = 20;
    fun(y);
    printf("%d", y);
    return 0;
}
```

- ☐ 30
- ☒ 20
- ☐ Compiler error
- ☐ Runtime error



✓ Q69) *

1/1

```
void start();
void end();
#pragma startup start
#pragma exit end
int static i;
void main(){
    printf("\nmain function: %d",++i);
}
void start(){
    clrscr();
    printf("\nstart function: %d",++i);
}
void end(){
    printf("\nend function: %d",++i);
    getch();
}
```

(a)
main function: 2
start function: 1
end function:3

☐ A

(b)
start function: 1
main function: 2
end function:3

☒ B

(c)
main function: 2
end function:3
start function: 1



☐ C☐ (d) Compiler error☐ (e) None of these

✓ Q19) *

1/1

Pick the best statement for the following program snippet:

```
#include <stdio.h>

int main()
{
    int var; /*Suppose address of var is 2000 */

    void *ptr = &var;
    *ptr = 5;
    printf("var=%d and *ptr=%d",var,*ptr);

    return 0;
}
```

- ☐ It will print "var=5 and *ptr=2000"
- ☐ It will print "var=5 and *ptr=5"
- ☐ It will print "var=5 and *ptr=XYZ" where XYZ is some random address
- ☒ Compile error



✓ Q40) *

1/1

What will be the output of the program ?

```
#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+i) = *(b+i)+5;
}
```

- ☐ [A]. 7, 9, 11, 13, 15
- ☒ [B]. 2, 15, 6, 8, 10
- ☐ [C]. 2 4 6 8 10
- ☐ [D]. 3, 1, -1, -3, -5



✓ Q28) What would be the equivalent pointer expression for referring the array element $a[i][j][k][l]$

*1/1

- ☐ A. $((((a+i)+j)+k)+l)$
- ☒ B. $*(*(*(a+i)+j)+k)+l)$
- ☐ C. $((((a+i)+j)+k)+l)$
- ☐ D. $((a+i)+j+k+l)$



✓ Q14) *

1/1

Predict the output of following program

```
#include<stdio.h>
int main()
{
    int a = 12;
    void *ptr = (int *)&a;
    printf("%d", *ptr);
    getchar();
    return 0;
}
```

- ☐ 12
- ☒ Compiler Error
- ☐ Runt Time Error
- ☐ 0



✓ Q46) Are the expression *ptr++ and ++*ptr are same? *

1/1

- ☐ True
- ☒ False



✓ Q39) *

1/1

What will be the output of the program ?

```
#include<stdio.h>
power(int**);
int main()
{
    int a=5, *aa; /* Address of 'a' is 1000 */
    aa = &a;
    a = power(&aa);
    printf("%d\n", a);
    return 0;
}
power(int **ptr)
{
    int b;
    b = **ptr***ptr;
    return (b);
}
```

- ☐ [A]. 5
- ☒ [B]. 25
- ☐ [C]. 125
- ☐ [D]. Garbage value

✓

✓ Q49) Is the NULL pointer same as an uninitialised pointer? *

1/1

- ☐ Yes
- ☒ No

✓



✓ Q17) *

1/1

```
#include <stdio.h>
#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);
}
```

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



✓ Q2) *

1/1

For the code below, select the correct answer.

```
#define NUMSTATICELS(pArray) (sizeof(pArray)/sizeof(*pArray))
```

PICK ONE OF THE CHOICES

- ☐ The macro will not calculate the number of elements in the array.
- ☐ The macro will work only with arrays statically defined in the code.
- ☐ The macro will work only with arrays dynamically defined in the code.

☒ A



☐ B

☐ C



✓ Q47) *

1/1

The following program reports an error on compilation.

```
#include<stdio.h>
int main()
{
    float i=10, *j;
    void *k;
    k=&i;
    j=k;
    printf("%f\n", *j);
    return 0;
}
```

- ☐ True
- ☒ False



✓ Q13) *

1/1

```
int f(int x, int *py, int **ppz)
{
    int y, z;
    **ppz += 1;
    z = **ppz;
    *py += 2;
    y = *py;
    x += 3;
    return x + y + z;
}

void main()
{
    int c, *b, **a;
    c = 4;
    b = &c;
    a = &b;
    printf("%d ", f(c, b, a));
    return 0;
}
```

- ☐ 18
- ☒ 19
- ☐ 21
- ☐ 22



✓ Q50) *

1/1

Will the program compile in Turbo C?

```
#include<stdio.h>
int main()
{
    int a=10, *j;
    void *k;
    j=k=&a;
    j++;
    k++;
    printf("%u %u\n", j, k);
    return 0;
}
```

☐ Yes☒ No

- ✓ Q21) Consider the size of int as two bytes and size of char as one byte. *1/1
Predict the output of the following code . Assume that the machine is little-endian.

Consider the following C code

```
int main()
{
    int a = 300;
    char *b = (char *)&a;
    *++b = 2;
    printf("%d ",a);
    return 0;
}
```

- ☒ 556 ✓
- ☐ 300
- ☐ Runtime Error
- ☐ Compile Time Error



✓ Q11) *

1/1

```
#include<stdio.h>
void f(int *p, int *q)
{
    p = q;
    *p = 2;
}
int i = 0, j = 1;
int main()
{
    f(&i, &j);
    printf("%d %d n", i, j);
    getchar();
    return 0;
}
```

- ☐ 2 2
- ☐ 2 1
- ☐ 0 1
- ☒ 0 2



✓ Q27) Which of the following option is correct? *

1/1

Consider following two C - program :

P1 :

```
int main()
{
    int (*ptr)(int ) = fun;
    (*ptr)(3);
    return 0;
}

int fun(int n)
{
    for(; n > 0; n--)
        printf("GeeksQuiz ");
    return 0;
}
```

P2 :

```
int main()
{
    void demo();
    void (*fun)();
    fun = demo;
    (*fun)();
    fun();
    return 0;
}

void demo()
{
    printf("GeeksQuiz ");
}
```

- ☐ P1 printed "GeeksQuiz GeeksQuiz" and P2 printed "GeeksQuiz GeeksQuiz"
- ☐ P1 printed "GeeksQuiz GeeksQuiz" and P2 gives compiler error
- ☒ P1 gives compiler error and P2 printed "GeeksQuiz GeeksQuiz" ✓
- ☐ None of the above



✓ Q35) *

1/1

What will be the output of the program?

```
#include<stdio.h>

int main()
{
    int arr[3] = {2, 3, 4};
    char *p;
    p = arr;
    p = (char*)((int*)(p));
    printf("%d, ", *p);
    p = (int*)(p+1);
    printf("%d", *p);
    return 0;
}
```

- ☐ [A]. 2, 3
- ☒ [B]. 2, 0
- ☐ [C]. 2, Garbage value
- ☐ [D]. 0, 0



✓ Q18)What's the size returned for each of sizeof() operator? *

1/1

Assume *int* is 4 bytes, *char* is 1 byte and *float* is 4 bytes. Also, assume that pointer size is 4 bytes (i.e. typical case)

```
char *pChar;  
int *pInt;  
float *pFloat;  
  
sizeof(pChar);  
sizeof(pInt);  
sizeof(pFloat);
```

- ☒ 4 4 4
- ☐ 1 4 4
- ☐ 1 4 8
- ☐ None of the above



✓ Q60) *

1/1

What will be output of following program?

```
#include<stdio.h>
int main(){
    int * p , b;
    b = sizeof(p);
    printf("%d" , b);
    return 0;
}
```

- ☐ (A) 2
- ☒ (B) 4
- ☐ (C) 8
- ☐ (D) Compilation error
- ☐ (E) None of above



✓ Q4) *

1/1

Output of following program?

```
#include <stdio.h>

int main()
{
    int *ptr;
    int x;

    ptr = &x;
    *ptr = 0;

    printf(" x = %dn", x);
    printf(" *ptr = %dn", *ptr);

    *ptr += 5;
    printf(" x = %dn", x);
    printf(" *ptr = %dn", *ptr);

    (*ptr)++;
    printf(" x = %dn", x);
    printf(" *ptr = %dn", *ptr);

    return 0;
}
```

x = 0
*ptr = 0
x = 5
*ptr = 5
x = 6
*ptr = 6

☒ A

x = garbage value
*ptr = 0
x = garbage value
*ptr = 5
x = garbage value
*ptr = 6

☐ B

☐ C
 x = 0
 *ptr = 0
 x = 5
 *ptr = 5
 x = garbage value
 *ptr = garbage value

☐ D
 x = 0
 *ptr = 0
 x = 0
 *ptr = 0

✓ Q36) *

1/1

What will be the output of the program ?

```

#include<stdio.h>

int main()
{
    char *str;
    str = "%d\n";
    str++;
    str++;
    printf(str-2, 300);
    return 0;
}
  
```

- ☐ [A]. No output
☐ [B]. 30
☐ [C]. 3
☒ [D]. 300



✓ Q42) *

1/1

Point out the error in the program

```
#include<stdio.h>

int main()
{
    int a[] = {10, 20, 30, 40, 50};
    int j;
    for(j=0; j<5; j++)
    {
        printf("%d\n", a);
        a++;
    }
    return 0;
}
```

- ☐ [A]. Error: Declaration syntax
- ☐ [B]. Error: Expression syntax
- ☒ [C]. Error: LValue (left hand side) required
- ☐ [D]. Error: Rvalue (right hand side) required



✓ Q8)What is the output of above program? *

1/1

```
#include<stdio.h>
int main()
{
    int a;
    char *x;
    x = (char *) &a;
    a = 512;
    x[0] = 1;
    x[1] = 2;
    printf("%dn",a);
    return 0;
}
```

- ☒ A) Machine dependent
- ☐ B) 513
- ☐ C) 258
- ☐ D) Compiler Error



✓ Q5) *

1/1

Consider a compiler where int takes 4 bytes, char takes 1 byte and pointer takes 4 bytes.

```
#include <stdio.h>

int main()
{
    int arri[] = {1, 2 ,3};
    int *ptri = arri;

    char arrc[] = {1, 2 ,3};
    char *ptrc = arrc;

    printf("sizeof arri[] = %d ", sizeof(arri));
    printf("sizeof ptri = %d ", sizeof(ptri));

    printf("sizeof arrc[] = %d ", sizeof(arrc));
    printf("sizeof ptrc = %d ", sizeof(ptrc));

    return 0;
}
```

- ☐ A) sizeof arri[] = 3 sizeof ptri = 4 sizeof arrc[] = 3 sizeof ptrc = 4
- ☐ B) sizeof arri[] = 12 sizeof ptri = 4 sizeof arrc[] = 3 sizeof ptrc = 1
- ☐ C) sizeof arri[] = 3 sizeof ptri = 4 sizeof arrc[] = 3 sizeof ptrc = 1
- ☒ D) sizeof arri[] = 12 sizeof ptri = 4 sizeof arrc[] = 3 sizeof ptrc = 4



✓ Q22)The following 'C' statement : int * f [] (); declares: *

1/1

- ☐ A function returning a pointer to an array of integers.
- ☒ Array of functions returning pointers to integers.
- ☐ A function returning an array of pointers to integers.
- ☐ An illegal statement.



✓ Q32) *

1/1

What will be the output of the program ?

```
#include<stdio.h>

void fun(void *p);
int i;

int main()
{
    void *vptr;
    vptr = &i;
    fun(vptr);
    return 0;
}

void fun(void *p)
{
    int **q;
    q = (int**)ap;
    printf("%d\n", **q);
}
```

- ☐ A. Error: cannot convert from void** to int**
- ☐ B. Garbage value
- ☒ C. 0
- ☐ D. No output



✓ Q55) *

1/1

What will be output of following program?

```
#include<stdio.h>
int main(){
    int a = 10;
    void *p = &a;
    int *ptr = p;
    printf("%u", *ptr);
    return 0;
}
```

- ☒ (A) 10
- ☐ (B) Address
- ☐ (C) 2
- ☐ (D) Compilation error
- ☐ (E) None of above



✓ Q31) *

1/1

What will be the output of the program ?

```
#include<stdio.h>

int main()
{
    int x=30, *y, *z;
    y=&x; /* Assume address of x is 500 and integer is 4 byte size */
    z=y;
    *y++=*z++;
    x++;
    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



✓ Q10) *

1/1

```
#include<stdio.h>
void fun(int arr[])
{
    int i;
    int arr_size = sizeof(arr)/sizeof(arr[0]);
    for (i = 0; i < arr_size; i++)
        printf("%d ", arr[i]);
}

int main()
{
    int i;
    int arr[4] = {10, 20 ,30, 40};
    fun(arr);
    return 0;
}
```

- ☐ 10 20 30 40
- ☒ Machine Dependent
- ☐ 10 20
- ☐ Nothing



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