

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

2. 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

3. 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

4. What will be the output of the program ?

```
#include<stdio.h>
int main()
{
    char str[20] = "Hello";
    char *const p=str;
    *p='M';
    printf("%s\n", str);
    return 0;
}
```

- A. Mello    B. Hello  
C. HMello    D. MHello

5. What will be the output of the program If the integer is 4bytes long?

```
#include<stdio.h>
int main()
{
    int ***r, **q, *p, i=8;
    p = &i;
    q = &p;
    r = &q;
    printf("%d, %d, %d\n", *p, **q, ***r);
    return 0;
}
```

}

A. 8, 8, 8 B. 4000, 4002, 4004

C. 4000, 4004, 4008 D. 4000, 4008, 4016

6.

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**) &p;
```

```
    printf("%d\n", **q);
```

```
}
```

A. Error: cannot convert from void\*\* to int\*\*

B. Garbage value

C. 0

D. No output

7. What will be the output of the program ?

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

```
int main()
```

```
{
```

```
    char *str;
```

```
    str = "%s";
```

```
    printf(str, "K\n");
```

```
    return 0;
```

```
}
```

A. Error    B. No output

C. K        D. %s

8. 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

9.

What will be the output of the program if the size of pointer is 4-bytes?

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

```

int main()
{
    printf("%d, %d\n", sizeof(NULL), sizeof(""));
    return 0;
}

```

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

10.

What will be the output of the program ?

```
#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

11.

What will be the output of the program?

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

```

int main()
{
    int arr[2][2][2] = {10, 2, 3, 4, 5, 6, 7, 8};

    int *p, *q;

    p = &arr[1][1][1];

    q = (int*) arr;

    printf("%d, %d\n", *p, *q);

    return 0;
}

```

- A.      8, 10    B.      10, 2  
C.      8, 1      D.      Garbage values

12.

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?

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

```

int main()
{
    int a[3][4] = { 1, 2, 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

13.

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

14.

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

15. 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" of IndiaBIX      D. print "7"

16. 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

17. What will be the output of the program ?

```

#include<stdio.h>

int main()
{
    char *p;
    p="hello";
    printf("%s\n", *&*p);
    return 0;
}

```

- A.      llo      B.      hello  
 C.      ello    D.      h

18. What will be the output of the program assuming that the array begins at location 1002?

```

#include<stdio.h>

int main()
{
    int a[2][3][4] = { {1, 2, 3, 4, 5, 6, 7, 8, 9, 1, 1, 2},
                       {2, 1, 4, 7, 6, 7, 8, 9, 0, 0, 0, 0} };
}

```

```

printf("%u, %u, %u, %d\n", a, *a, **a, ***a);

return 0;

}

```

- A. 1002, 2004, 4008, 2      B. 2004, 4008, 8016, 1  
C. 1002, 1002, 1002, 1      D. Error

19. 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

20. What will be the output of the program ?

```
#include<stdio.h>

int main()
{
    char str1[] = "India";
    char str2[] = "BIX";
    char *s1 = str1, *s2=str2;
    while(*s1++ = *s2++)
        printf("%s", str1);

    printf("\n");
    return 0;
}
```

- A. IndiaBIX      B. BndiaBldiaBIXia  
C. India      D. (null)

21. What will be the output of the program ?

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

int main()
{
    int i, n;
    char *x="Alice";
    n = strlen(x);
    *x = x[n];
    for(i=0; i<=n; i++)
```

```

{
    printf("%s ", x);

    x++;
}

printf("\n", x);

return 0;
}

```

A. Alice B. ecilA

C. Alice lice ice ce e D. lice ice ce e

22. 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+1) = *(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

23.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

Ref: <http://www.indiabix.com/c-programming/pointers/038001>