1. What is the output of following 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;

}

1. What is the output of following program?

**#include<stdio.h>**

int main()

{

int i=3, \*j, k;

j = &i;

printf("%d\n", i\*\*j\*i+\*j);

return 0;

}

1. What is the output of following 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;

}

1. What is the output of following program?

**#include<stdio.h>**

int main()

{

char str[20] = "Hello";

char \*const p=str;

\*p='M';

printf("%s\n", str);

return 0;

}

1. What is the output of following program?

**#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;

}

1. What is the output of following 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);

}

1. What is the output of following program?

**#include<stdio.h>**

int main()

{

char \*str;

str = "%s";

printf(str, "K\n");

return 0;

}

1. What is the output of following 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);

}

1. What is the output of following program?

**#include<stdio.h>**

int main()

{

printf("%d, %d\n", sizeof(NULL), sizeof(""));

return 0;

}

1. What is the output of following 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;

}

1. What is the output of following program?

**#include<stdio.h>**

int main()

{

int \*ptr1 = malloc(100);

free(ptr1);

int \*ptr2 = malloc(100);

free(ptr1);

int \*ptr3 = malloc(100);

return 0;

}

1. What is the output of following 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;

}

1. What is the output of following program?

**#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;

}

1. What is the output of following 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;

}

1. What is the output of following program?

**#include<stdio.h>**

int main()

{

char \*str;

str = "%d\n";

str++;

str++;

printf(str-2, 300);

return 0;

}

1. What is the output of following program?

**#include<stdio.h>**

int main()

{

printf("%c\n", 7["IndiaBIX"]);

return 0;

}

1. What is the output of following program?

**#include<stdio.h>**

int main()

{

printf("%c\n", 5["Mirafra"]);

return 0;

}

1. What is the output of following program?

**#include<stdio.h>**

int main()

{

char str[] = "peace";

char \*s = str;

printf("%s\n", s++ +3);

return 0;

}

1. What is the output of following program?

**#include<stdio.h>**

int main()

{

char \*p;

p="hello";

printf("%s\n", \*&\*&p);

return 0;

}

1. What is the output of following 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;

}

1. What is the output of following 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;

}

1. What is the output of following 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;

}

1. What is the output of following 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;

}

1. Point out error

**#include<stdio.h>**

int main()

{

int \*x;

\*x=100;

return 0;

}

1. Point out error?

**#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;

}

1. Which of the statement is correct about program?

|  |
| --- |
| Which of the following statements correctly declare a function that receives a pointer to pointer to a pointer to a float and returns a pointer to a pointer to a pointer to a pointer to a float? |
| |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | float \*\*fun(float\*\*\*); | | [**B.**](javascript:%20void%200;) | float \*fun(float\*\*); | | [**C.**](javascript:%20void%200;) | float fun(float\*\*\*); | | [**D.**](javascript:%20void%200;) | float \*\*\*\*fun(float\*\*\*); | |

1. Which of the statements is correct about the program?

#include<stdio.h>

int main()

{

int i=10;

int \*j=&i;

return 0;

}

A. j and i are pointers to an int

B. i is a pointer to an int and stores address of j

C. j is a pointer to an int and stores address of i

D. j is a pointer to a pointer to an int and stores address of i

1. True or False?

Are the expression \*ptr++ and ++\*ptr are same?

1. True or False?

Will this program compile?

**#include<stdio.h>**

int main()

{

char str[5] = "IndiaBIX";

return 0;

}