

If the two strings are identical, then strcmp() function returns?

- A. -1
- B. 1
- **C**. 0
- D. Yes

Q2



• What will be the output of the program ?

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

- A. Hello
- B. World
- C. Hello World
- D. WorldHello





• What will be the output of the program?

```
void main()
{
    char p[] = "%d\n";
    p[1] = 'c';
    printf(p, 65);
}
```

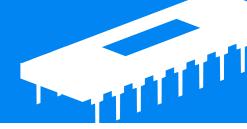
A. A

B. a

C. C

D. 65





• What will be the output of the program?

```
void main()
{
    char str[] = "my name\0\is Aya\0";
    printf("%s %d\n", str, strlen(str));
}
```

- A. my name is Aya 14
- B. my name 14
- C. my name 7





What will be the output of the program?

```
void main()
{ char s[25] = "The cocaine man";
  int i=0;
  char ch;
  ch = s[++i];
  printf("%c", ch);
  ch = s[i++];
  printf("%c", ch);
 ch = ++s[i];
 printf("%c", ch);
A.
         hhe
В.
         heh
         hhf
```

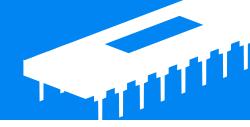


• Is there any difference between the following two statements?

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

A) YES

B) NO

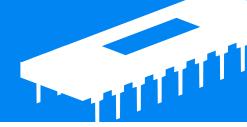


Point out the compile time error in the program given below.

```
void main()
{
  int * x;
  *x=100;
}
A. Error: invalid assignment for x
B. Error: suspicious pointer conversion
```

No error





What is the output of the following program?

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

- A) 10,20,30,40,50
- B) 0,1,2,3,4

C) error



In the following program add a statement in the function fun() such that address of(a)gets stored in (j)? void main() int *j; void fun(int**); fun(&j); void fun(int **k) int a = 10; /* Add a statement here */ A. **k=a; B. k=&a; *k=&a D. &k=*a



How many time the program will print

the string?

A) Infinite times

B) 32767 times

C) 65535 times

D) Till stack overflows

```
#include<stdio.h>

void main()
{
    printf("welcome to Embedded world!!");
    main();
}
```





What will be the output of the program?

- a) 30
- b) 27
- c) 9
- d) 3



What is the output of the program ?

```
A. 1,3,3,4,5
B. 1,5,3,4,5
C. 1,9,3,4,5
D. 1,2,3,9,5
```

```
#include<stdio.h>
void main ()
int i, arr[] = \{1, 2, 3, 4, 5\};
increment (arr, 5);
for(i=0; i<=4; i++)
printf("%d, ", arr[i]);
void increment (int *arr, int n)
int index = 3;
*(arr+1) = *(arr+index)+5;
```





What is the output of the program?

```
typedef struct
{
  int data;
  Node * next;
}Node;
```

- A. Error: Unknow type name 'Node'
- B. Error: in typedef
- C. No error





What will be the output of the program?

A. Error

B. H

C. Hello

D. Hel

```
void main()
    const char *s = "";
    char str[] = "Hello";
    s = str;
    while (*s)
        printf("%c", *s++);
```



What is the output of the following?

- A) 9
- B) 0
- C) Compilation error

```
void main()

{
   int x = 9;
   static int y = x;
   printf("%d", y);
}
```





What will be the output of the program?

A. 40 40

B. 20 40

C. 20

D. Error

```
#include<stdio.h>
int main()
    int x=40;
        int x=20;
        printf("%d ", X);
    printf("%d\n", X);
    return 0;
```





What will be the output of the program?

- A. Hello
- B. Hi Hello
- C. No output
- D. Infinite loop

```
#include<stdio.h>
int i;
int fun();
int main()
    while(i)
        fun();
        main();
    printf("Hello\n");
    return 0;
int fun()
   printf("Hi");
```





```
What will be the output of the program?
```

```
#include <stdio.h>
#define SQR(x) (x*x)
void main()
{
  int a, b=3;
  a = SQR(b+2);
  printf("%d\n", a);
}
```

- A. 25
- B. 11
- C. Error
- D. Garbage value





What will be the output of the program?

A. 10

B. 20

C. 30

D. 0

```
#include<stdio.h>
int main()
-{
    union var
        int a, b;
    };
    union var v;
    v.a=10;
    v.b = 20;
    printf("%d\n", v.a);
    return 0;
}
```





What will be the output of the program in gcc?

A. 1

B. 2

C. 4

D. 9

```
#include<stdio.h>
int main()
-€
    struct value
        int bit1:1;
        int bit3:4;
        int bit4:4;
    }bit;
    printf("%d\n", sizeof(bit));
    return 0;
```



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

given below?

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

```
#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;
```





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



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

- A. Yes
- B. No

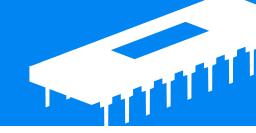




Would the following typedef work? typedef #include "file1.h";

A. Yes

B. No



Declare the following statement?

"an array of three pointers to characters".

A. char *arr[3]();

B. char (*arr)*[3];

C. char *arr[3];

D. char (*arr)[3];



Declare the following statement?

"A pointer to an array of three chars".

A. char *ptr[3]();

B. char (*ptr)*[3];

C. char (*ptr[3])();

D. char (*ptr)[3];



Using static keyword with the function name?

- A) it makes no difference
- B) limits the function visibility to the current file
- C) saves the function frame in data segment instead of stack



The main difference between structures and unions?

- A) no difference between them
- B) unions conserve memory than structures
- C) structures conserve memory than unions





If we are going to use the word extern, which of the following keywords can be used with it?

- A) static
- B) register
- C) volatile



What will be the output of the program?

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

```
#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);
```





What will be the output of the program?

```
#include<stdio.h>
int main()
{
   enum days {MON=-1, TUE, WED=6, THU, FRI, SAT};
   printf("%d, %d, %d, %d, %d\n", MON, TUE, WED, THU, FRI, SAT);
   return 0;
}
```

- A. -1, 0, 1, 2, 3, 4
- B. -1, 2, 6, 3, 4, 5
- C. -1, 0, 6, 2, 3, 4
- D. -1, 0, 6, 7, 8, 9





What is the output of the program?

```
A. 3, 2, 515
```

B. 515, 2, 3

C. 3, 2, 5

D. None of these

```
#include<stdio.h>
int main()
   union a
       int i;
       char ch[2];
   };
   union a u;
   u.ch[0] = 3;
   u.ch[1] = 2;
   printf("%d, %d, %d\n", u.ch[0], u.ch[1], u.i);
    return 0;
```

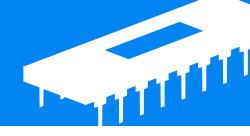




Is there any difference between following declarations?

- 1: extern int fun();
- 2: int fun();
- A. Both are identical
- B. No difference, except extern int fun(); is probably in another file
- C. int fun(); is overrided with extern int fun();
- D. None of these





Is the following statement a declaration or definition?

extern int i;

- A. Declaration
- B. Definition
- C. Function
- D. Error