

Storage Classes: static - 1

What is the output of this C code?

```
int main()
{
    static int x = 3;
    x++;
    if (x <= 5)
    {
        printf("CodeQuotient");
        main();
    }
    return 0;
}</pre>
```

- Run time error
- CodeQuotient
- CodeQuotient CodeQuotient correct answer
- Syntax Error

Storage Classes: static - 2

A static variable is one:

- Which cannot be initialized
- Which is initialized once at the commencement of execution and cannot be changed at runtime
- Which retains its value throughout the life of the program correct answer
- Which is the same as an automatic variable but is placed at the head of a program

Storage Classes: register - 1

What will be the output of below program?

```
int main()
{
  register int num = 5;
  printf("%d", num);
  return 0;
}
```

- 5 correct answer
- Garbage Value
- Syntax Error
- No output

Storage Classes: register - 2

Which of the following statement are correct?

- (i) The value stored in the CPU register can always be accessed faster than that stored in memory.
- (ii) A register storage class variable will always be stored in a CPU register.

- Only I is correct
 correct answer
- Only II is correct
- Both I & II are correct
- Both I & II are incorrect

Storage Classes: extern - 1

What will be the output of below program?

```
#include <stdio.h>
int main()
{
  extern int num;
  printf("%d", num);
  return 0;
}
int num = -1;
```

- 0
- -1 correct answer
- Garbage
- Syntax Error

Storage Classes: extern - 2

What will be the output of below program?

```
int main()
{
  extern int num;
  printf("%d", num);
  return 0;
}
```

Choose any one

0

_

-1

Garbage

Syntax Error correct answer

Storage Classes: auto - 1

Where will the space be allocated for an automatic storage class variable?

- In CPU register
- In memory as well as in CPU register
- In memory correct answer
- On disk

Storage Classes: auto - 2

In below program, the variable x is having which storage class?

```
int main()
{
  int x;
  return 0;
}
```

- auto correct answer
- static
- extern
- register

Static storage class

Predict the output of the following code?

```
23456
23457
23458
23459
23460

1
1
1
1
1
1
1
1
Run time error
```

Write the name of storage class having following specification from (auto, register, static, extern)

Your answers 1.) Scope of the variable is global. extern 2.) Value of the variable persists between different function calls. static 3.) Value stored in memory and local to the block in which the variable is defined. auto 4.) Value stored in CPU registers. register

A global variable is a variable

- declared in the main () function.
- declared in any function other than the main () function.
- declared outside the body of every function. correct answer
- declared anywhere in the C program.

Which of the following statement are correct?

- (i) The maximum value a variable can hold depends upon its storage class.
- (ii) By default all variables enjoy a static storage class.

- Only I is correct
- Only II is correct
- Both I & II are correct
- Both I & II are incorrect ✓ correct answer

In case of a conflict between the names of a local and global variable what happens?

- The global variable is given a priority.
- Which one will get a priority depends upon which one is defined first.
- The compiler reports an error.

What will be the output of below program?

```
#include<stdio.h>
int main()
{
     static unsigned int a = 55;
     register unsigned char c = 'C';
     auto long unsigned q = 34L;
     static long signed p = 35L;
     printf("%d %c %ld %ld", a ,c,q,p);
     return 0;
}
```

- 55 C 34 35 ✓ correct answer
- 55 C 0 0
- Garbage values
- 55 C 3400000 3500000