Static in C

```
void foo()
         int a = 10;
         static int statica = 10;
         a++;
         statica++;
 9
         printf("a = d, ga = dn", a, statica);
10
11
12
                                           C:\ccode\static1.exe
13
     int main()
14
                                             = 11, sa = 11
                                             = 11, sa = 12
15
         int i;
                                             <u>= 1</u>1, sa = 13
16
                                             = 11, sa = 14
17
         for (i = 0; i < 10; ++i)
                                             = 11, sa = 15
                                             = 11, sa = 16
18
             foo();
                                             = 11, sa = 17
19
                                             = 11, sa = 18
                                           a = 11, sa = 19
20
                                           a = 11, sa = 20
```

Quiz

What is the output?

```
int fun()
     int fun()
                                       3
                                             static int count = 0:
       int count = 0:
                                             count++;
       count++;
                                             return count;
       return count;
                                       6
                                           int main()
     int main()
                                       9
 9
                                      10
                                             printf("%d ", fun());
       printf("%d ", fun());
10
                                      11
                                             printf("%d ", fun());
11
       printf("%d ", fun());
                                      12
                                             return 0;
12
       return 0;
                                      13
13
```

Prints 1 1

Prints 1 2

More about Static

• static variables are initialized to zero by default.

```
int main()
    static int x:
    int v;
    //static variable x is zero.
    printf("%d \n %d", x, y);
             C:\ccode\static3.exe
              2130567168
             Process returned 0 (0x0)
             Press any key to continue.
```