#  Storage Class Homework

1. Answer each of the following questions with auto, extern, register, and//or static.

a) Which storage class is used primarily to indicate that a variable or function can be shared by several files?

extern

b) Suppose that a variable x is to be shared by several functions in one file but hidden from functions in other files. Which storage class should x be declared to have?

static

c) Which storage classes can affect the storage duration of a variable?

extern and static (when applied to a local variable)

2. Given function foo() below:

int foo(int i) {

static int j = 0;

return i \* j++;

}

a) What will be the value of foo(10) if foo() has never been called before?

0

b) What will be the value of foo(10) if foo() has been called five times previously?

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