## C201 Review Questions #4

T(rue) or F(alse) Talk with other people if want	T(rue)
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- 1)\_\_\_\_ C++ has several storage classes, including auto, static, external and register.
- 2)\_\_\_\_ A function that returns void should have a name that conveys action.
- 3)\_\_\_\_ An value parameter is used to pass information back and forth from a function.
- 4)\_\_\_ A function can change the value of an in parameter without fear of side effects.
- 5)\_\_\_ The actual parameter list needs to have the same number of parameters as formal list.
- 6) One should never write functions that are not logically coherent.
- 7)\_\_\_ Given a reference parameter the corresponding actual parameter may be a constant.
- 8)\_\_\_ Local static variables are initialized every time a function is called.
- 9)\_\_\_ A void returning function cannot have the "return;" statement in function body.
- 10)\_\_\_ Programmers should exercise care when using ">>" to read numeric values.
- 11) What's wrong with the following main()?

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

- 12) Which of the following is preferable?
  - a) Writing a function that determines the largest proper divisor of an int N and then displays this proper divisor.
  - b) Writing a function that returns the largest proper divisor and produces no output.
- 13) Given the prototype "void FindSumOfDigits (int &Sum, int N);", determine which of the calls below would be flagged as an error. Assume that S and I have been properly declared as an int.
- \_\_\_\_a) FindSumOfDigits (S);
- \_\_\_\_b) FindSumOfDigits (S, 1234);
- \_\_\_\_c) FindSumOfDigits (S + 1, 1234);
- \_\_\_\_d) FindSumOfDigits (S, S);
- \_\_\_\_e) FindSumOfDigits (S, I);
- 14) The function below is supposed to find the sum of the digits of an integer N and it actually does return the correct sum via the parameter Sum. However, the function is not properly designed. Explain.

```
void FindSumOfDigits (int &Sum, int &N, int Copy)
{
   Copy = N;
   Sum = 0;
   while ( Copy != 0 )
   {
      Sum += (Copy % 10);
      Copy /= 10;
   }
}
```