

ENG236 Computer Programming
Quiz 5 (22 October 2009)

Instruction: open book

1. (90 marks) The following C++ program is full of bugs. Point out the bugs using pointers with corrections.

```
#include <iostream>
using namespace std;

class Class
{
public:                                // 2 bugs
    void SetCode(int);
    int  GetCode();
    void SetSize(int);
    int  GetSize();
private:                               // 1 bug
    int code, size;
};                                       // 1 bug

void Class::SetCode(int code_input){code = code_input;} // 1 bug

int Class::GetCode(){return code;} // 1 bug

void Class::SetSize(int size_input) {size = size_input;} // 1 bug

int Class::GetSize(){return size;} // 2 bugs

int main()
{
    Class ENG236, COMP632;
    ENG236.SetCode(236); // 1 bug
    ENG236.SetSize(84); // 1 bug
    COMP632.SetCode(632); // 1 bug
    COMP632.SetSize(20); // 1 bug

    cout << "The class code for ENG236 is: ";
    cout << ENG236.GetCode() << ".\n";
    cout << "The class size for ENG236 is: ";
    cout << ENG236.GetSize() << ".\n";

    cout << "The class code for COMP632 is: ";
    cout << COMP632.GetCode() << ".\n"; // 1 bug
    cout << "The class size for COMP632 is: ";
    cout << COMP632.GetSize() << ".\n"; // 1 bug

    return 0;
}
```