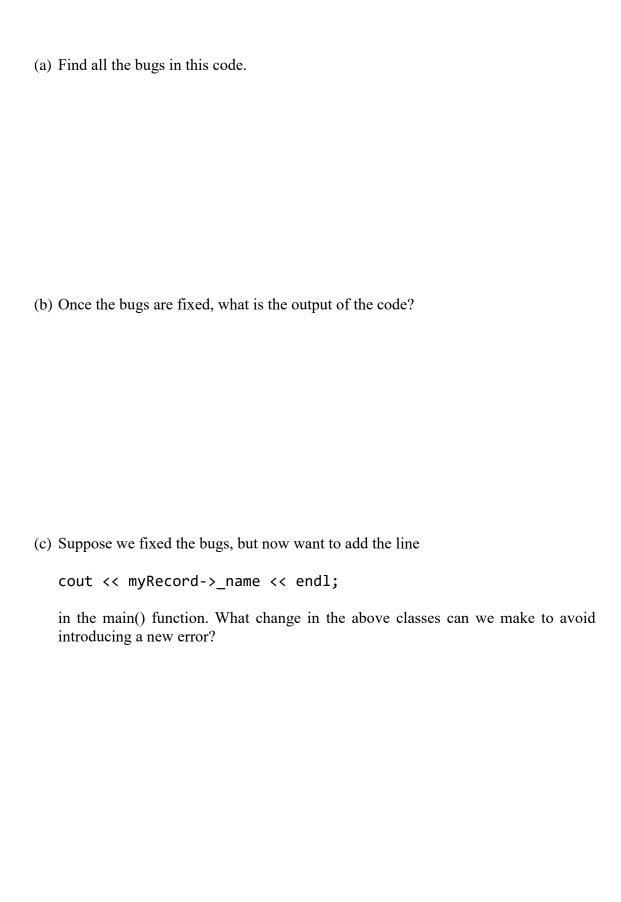
EE209 Spring 2018 C++ Sample Exam

1. Access control

Suppose we have the following C++ code.

```
#include <iostream>
using namespace std;
class Parent {
 virtual void print()
   cout << "Parent name " << _name << endl;</pre>
protected:
 char* _name;
};
class Child : public Parent {
public:
 Child(char* name = "KIM")
    : _name(name) {}
 void print()
   cout << "Child name " << _name << endl;</pre>
};
int main() {
 Parent* myRecord = new Child();
 myRecord->print();
 delete myRecord;
 return 0;
}
```



2. Function overloading

```
What is the output of the following C++ code?
#include <iostream>
using namespace std;
class Animal {};
class Fish : public Animal {};
class JellyFish : public Fish {};
class Squid : public Fish {};
void whichone(Animal animal) {
 cout << "Animal" << endl;</pre>
void whichone(Squid squid) {
 cout << "Squid" << endl;</pre>
int main() {
 Squid squid;
 whichone(squid);
 Fish fish;
 whichone(fish);
 JellyFish jellyfish;
 whichone(jellyfish);
 whichone(*(Squid*)&jellyfish);
 return 0;
```

Output: