## Introduction to C++ - Quiz 1, 17 Feb 2010

ID: \_\_\_\_\_

Name:	ID:
This is a <i>closed book</i> quiz. There are seven questions ceach question, fill in the blank with your answer.	
In the code fragments, assume that the context (e.g. statements) has been specified correctly.	appropriate header files and using namespace
In questions that ask what a fragment would print, in more decimal digits (don't worry about spaces or newlines	
1. What would the following code fragment print (4 pts	s)?
<pre>int a[] = { 2, 3, 5 }; cout &lt;&lt; *a + 2 &lt;&lt; *(a + 2) &lt;&lt; endl;</pre>	
2. What would the following code fragment print (4 pts	s)?
<pre>void clever_swap(int &amp;x, int &amp;y) {    x = x - y;    y = x + y;    x = y - x; }</pre>	
<pre>int a = 1, b = 2; clever_swap(a, b); clever_swap(a, a); cout &lt;&lt; a &lt;&lt; b &lt;&lt; endl;</pre>	
3. What would the following code fragment print (4 pts	s)?
<pre>class myclass {    int x; public:    myclass(int x = 2) { myclass::x =    ~myclass() { cout &lt;&lt; x; } }; myclass *pc = new myclass();</pre>	x; cout << 1; }

4. In the C++ standard library, is cin an object or a class (2 pts)?

cout << 3; delete pc; cout << endl;</pre> 5. Would the following code compile without errors? If no, give a brief description of the problem (3 pts).

```
int main() {
    struct example1 {
        int x, y;
    } *p, q;
    p = new example1;
    q = new example1;
}
```

6. Would the following code compile without errors? If no, give a brief description of the problem (3 pts).

```
class example2 {
private:
   int x;
public:
   // ...
   int setx(int x) const { example2::x = x; }
   int getx() const { return x; }
};
```