**Exercise 3**

**1. What is a class?**

**a.** A collection of values

**b.** An object

**c.** A type of thing

**2. What is an object?**

**a.** An array

**b.** A variable

**c.** A class

**3. What would we call an instance of a class?**

**a.** An array

**b.** A class

**c.** An object

**4. What's wrong with this code?**

class Robot

{

Robot();

};

**a.** Missing 'public'

**b.** Missing 'private'

**c.** Missing semicolon

**5. What's wrong with this code?**

class Robot

{

int m\_damage;

};

**a.** Missing 'public'

**b.** Missing 'private'

**c.** Missing semicolon

**Here is a class:**

class A

{

public:

A();

~A();

};

A::A()

{

std::cout << "1";

}

A::~A()

{

std::cout << "2";

}

**6. Given the above definition of class A, what does this code print out?**

int main()

{

A a1;

A a2;

}

**a.** 1122

**b.** 1212

**c.** 2121

**d.** 2211

**7. What does this code print out?**

void MyFunction()

{

static A a1;

A a2;

}

int main()

{

MyFunction();

}

**a.** 1122

**b.** 1221

**c.** 1212

**d.** 112

**8. What does this code print out?**

void MyFunction()

{

static A a1;

A a2;

}

int main()

{

MyFunction();

MyFunction();

}

**a.** 11221122

**b.** 121212

**c.** 111222

**d.** 112122