CMPT 125 Quiz - November 13, 2018

Name: _____

SFU ID:_____

Q1. Consider the following classes in C++.

```cpp
class B1 {};

class B2 {};

class B3: public B2
{
   B1 localVar;
   // implementation ...
};
```

Which of the following relations holds for these classes? Choose one of the four options

   1) B3 is-a B2   and   B3 is-a B1
   2) B3 is-a B2   and   B3 has-a B1
   3) B2 has-a B1 and   B3 is-a B1
   4) B2 is-a B3   and   B3 has-a B1

Q2. What will be the output of the following program?

```cpp
class A
{
    int val;
  public:
    A(int i) {
      val = i;
      cout << "constructor : " << val << "\n";
    }

    ~A()    {
      cout << "destructor : " << val << "\n";
    }
};

int main() {
   A a1 = A(1);

   A* a2 = new A(2);
   delete a2;
}
```