NetID: penggu2 QuizID: 03525 Score: 3/4 Answer Source: PrairieLearn

```
class Season{
   public:
        virtual void adjustTemp(int change);
        private:
            int temp;
};

class Winter: public Season {
    public:
        void makeColder(int change);
};

Where could the assignment temp += change; appear for the private variable temp?
A. Both adjustTemp and makeColder can make the assignment.
B. The answer to this question cannot be determined from the given code.
C. Neither makeColder nor adjustTemp can make the assignment.
D. makeColder can make the assignment, but adjustTemp cannot.
E. [Correct Answer] [Your Answer] adjustTemp can make the assignment, but makeColder cannot.
```

```
2. What will be the output of the following program?
   class Base {
       public:
           Auxilliary *a1;
           Base() { a1 = new Auxilliary(); }
           virtual ~Base() { delete al; cout << "Base "; }</pre>
   };
   class Derived : public Base {
       public:
           virtual ~Derived() { cout<< "Derived "; }</pre>
   class Auxilliary {
      public:
          ~Auxilliary() { cout << "Auxilliary "; }
   int main() {
       Base* b = new Derived;
       delete b;
   A. "Base "
   B. "Derived Base Auxilliary "
    C. [Correct Answer] "Derived Auxilliary Base "
   D. "Base Auxilliary "
    E. [Your Answer] "Base Auxilliary Derived "
```

4. Suppose class modPNG contains exactly one pure virtual function whose name is print. Also suppose that class flipImage is a public modPNG that implements print.

Which of the following C++ statements will certainly result in a compiler error? Make sure to read all options carefully.

A. [Correct Answer] [Your Answer] Exactly two of the code options will result in a compiler error.

B. All three of the code options will result in a compiler error.

C. modPNG \* a; flipImage \* b; a=b;

D. modPNG \* a = new modPNG;

E. modPNG a;