1. Consider the following class definitions:

```
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.

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

```
class Base {
    public:
        Auxilliary *a1;
        Base() { a1 = new Auxilliary(); }
        virtual ~Base() { delete a1; cout << "Base ";  }
};

class Derived : public Base {
    public:
        virtual ~Derived() { cout<< "Derived "; }
};

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 "`

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

```
class Base {
    public:
        ~Base() {cout << "Destructing Base"; }
};

class Derived : public Base {
    public:
        ~Derived() { cout<< "Destructing Derived"; }
};

int main() {
    Base* b = new Derived;
    delete b;
}
```

    A. `"Destructing Derived"`
    B. [Correct Answer] [Your Answer] `"Destructing Base"`
    C. `"Destructing BaseDestructing Derived"`
    D. Compiler error
    E. None of the above

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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;`