NetID: zeruiw2 QuizID: 68265 Score: 3/4 Answer Source: PrairieLearn

```
{{{questionNumber}}}}. What will be the output of the following program?
   class Base {
       public:
           ~Base() {cout << "Destructing Base"; }
   1:
   class Derived : public Base {
       public:
           ~Derived() { cout<< "Destructing Derived"; }
   };
   int main() {
       Base* b = new Derived;
       delete b;
   A. "Destructing BaseDestructing Derived"
   B. Compiler error
   C. [Correct Answer] [Your Answer] "Destructing Base"
   D. "Destructing Derived"
   E. None of the above
```

```
{{{questionNumber}}}. Consider the following class definitions:
   class Sport{
       public:
            virtual int winner();
       private:
            int score;
   };
   class Volleyball: public Sport {
       public:
            int loser();
Where could the assignment score = 20; appear for the private variable score?
   A. Both winner() and loser() can make the assignment.
   B. loser() can make the assignment, but winner() cannot.
   C. [Correct Answer] [Your Answer] winner() can make the assignment, but loser() cannot.
   D. Neither winner () nor loser () can make the assignment.
   E. The answer to this question cannot be determined from the given code.
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```
{{{questionNumber}}}}. What will be the output of the following program?
   class One {
       public:
           Alpha *a1;
            One() { a1 = new Alpha(); }
virtual ~One() { cout << "One "; delete a1; }
   };
   class Two : public One {
        public:
            virtual ~Two() { cout<< "Two "; }</pre>
   };
   class Alpha {
      public:
           ~Alpha() { cout << "Alpha "; }
   int main() {
        One* b = new Two;
        delete b;
   A. "One Alpha "
   B. "One "
    C. "One Alpha Two "
   D. "Two Alpha One "
    E. [Correct Answer] [Your Answer] "Two One Alpha "
```