## Mount of Instructor Solution

## C++ Week Two Quiz

```
Q1: Which constructor is called in main below?
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```
class Bar{
    int x_{-} = 0;
public:
     Bar (int a): x_(a) {}
     Bar () = default;
                              : 1=+ -to 3 (+wi) ++ notongo +/wi
     Bar (const Bar& n);
     Bar(const std::initializer_list<int>& a);
};
int main(){
Bar a {0}; & calls the std: initializer_list constructor.
Q2: Create a class foo that can't be copied below:
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class has a default access modifier of private.

The program calls store terrinate

when he defines a copy constructor

representation and their copy

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Q4: What would be needed below for Foo to be following the RAII principals? A destructor to free the memory struct Foo15{ int\* v; Foo(): v\_(new int[15]) {} //acquire 60 bytes of memory ~Foo() { delete [] v-; 3 Q5: How would I declare a post increment ++ operator below to go to the next element: class Ptr{ int\* ptr ; public: Ptr(int\* ptr): ptr\_(ptr) {} auto tmp = ptr\_;
int\* operator ++ (int) { ptr\_ += 1; ... return ptr; 3 }; Q6: What three things does the keyword override accomplish? 1. Protects against typos 2. Makes it clear a function is virtual 3. Clarifies programmers intent. Q7: Why is braced initialization preferred below: int a {2.3}; Storing a double into an int is a narrowing conversion. When using braced witchization this is an error. Q8: Why would an abstract class that can't be instantiated be useful?
As an interface for a team of developers to use, that will ensure code will work togother. For polymorphism. Q9: What exception class do all exceptions in the standard library inherit from? unes out team) = nothings door sto:: exception Q10: What happens to an uncaught exception? The program calls std: terminate Q11: What is the difference between a struct and a class? Astruct has a default access modifier of public while a class has a default access modifier of private. Q12: What is a traditional Error Handling method that can be used if you can't use exceptions? Keturning an error code Q13: Why must we ensure that no exceptions are thrown in our exception handlers? Program will call sto: terminate Q14: When should a developer defined a copy assignment operator for a class? Rule of Fixe When he defines a copy constructor or a move constructor or assignment, or if he defines a destrutor.