

Question 1

object-oriented programming :: general knowledge	
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Give brief definitions of the following terms:

- object

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- class

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- instance

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- superclass

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- subclass

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- member

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- method

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- getters and setters

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- accessors and mutators

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- access modifiers
 - public

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- private

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- protected
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Question 2

classes	
documentation	
consistency of style	

Preface your program with a block comment containing a short description of what it does, and with all necessary `#include` and `using` statements.

Next, write a `Character` class with the following members:

- A `name`, as a string, with either `private` or `protected` visibility.
- A default constructor that optionally accepts a constant reference to a `string` and initializes the `name` data member to that value.
- A `void` method named `sayName` that prints "My name is " followed by the `Character`'s name, followed by a newline, to standard output.

Next, write an `AvatarCharacter` class that inherits from `Character` and has the following members:

- An `element`, as a string, with either `private` or `protected` visibility.
- A default constructor that optionally accepts two constant references to `strings`, passes the first value to the parent constructor, and uses the second to initialize the `element` data member.
- A `void` function named `sayElement` that sends "I bend ", followed by the `AvatarCharacter`'s `element`, followed by a newline, to standard output.

Finally, write a short `main()` that calls the `sayName()` and `sayElement()` methods on objects of type `AvatarCharacter` to produce the following output:

Output
My name is Aang I bend everything! My name is Katara I bend water :) My name is Sokka I bend nothing :(

Before you begin, please

- Be sure to write your answers neatly and in a good and consistent style. This will be graded. I recommend writing out your solution on the back of the test or on scratch paper and then copying it to page 3 (make sure to cross out the version you don't want graded). You might also consider using pencil, if pen is your usual choice.
- Try to comment with the level of detail you would find helpful (but not irritating) in code of similar complexity written by another student in this class.

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