

## QUIZ 7

1. Summarize the base-class member accessibility in a derived class with *public* type of inheritance.
2. Summarize the base-class member accessibility in a derived class with *protected* type of inheritance.

### 9.8 public, protected and private Inheritance

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Base class member access specifier	Type of inheritance		
	public inheritance	protected inheritance	private inheritance
<b>Public</b>	<b>public</b> in derived class. Can be accessed directly by any non- <b>static</b> member functions, <b>friend</b> functions and non-member functions.	<b>protected</b> in derived class. Can be accessed directly by all non- <b>static</b> member functions and <b>friend</b> functions.	<b>private</b> in derived class. Can be accessed directly by all non- <b>static</b> member functions and <b>friend</b> functions.
<b>Protected</b>	<b>protected</b> in derived class. Can be accessed directly by all non- <b>static</b> member functions and <b>friend</b> functions.	<b>protected</b> in derived class. Can be accessed directly by all non- <b>static</b> member functions and <b>friend</b> functions.	<b>private</b> in derived class. Can be accessed directly by all non- <b>static</b> member functions and <b>friend</b> functions.
<b>Private</b>	Hidden in derived class. Can be accessed by non- <b>static</b> member functions and <b>friend</b> functions through <b>public</b> or <b>protected</b> member functions of	Hidden in derived class. Can be accessed by non- <b>static</b> member functions and <b>friend</b> functions through <b>public</b> or <b>protected</b> member functions of the base class.	Hidden in derived class. Can be accessed by non- <b>static</b> member functions and <b>friend</b> functions through <b>public</b> or <b>protected</b> member functions of the base class.

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Figure 1: Summary of base-class member accessibility in a derived class.