CSE 331 – Section 10 – Design Patterns

For each question on this page, circle your chosen answer among the listed options.

1.	With the benefit of hindsight, which creational pattern would have been a good fit for your graph ADT, considering its subsequent client programs?				
	Factory Method	Abstract Factory	Singleton	Builder	Prototype
2.	If a class's objects never change once initialized but must be initialized incrementally, which creational pattern would let you make the class's objects immutable?				
	Factory Method	Abstract Factory	Singleton	Builder	Prototype
3.	In <i>Pathfinder</i> (HW7), would the singleton pattern make sense for the model, given that the program only serves one user per session?				
		Yes	No		
4.	In Campus Paths (HW9), would the singleton pattern make sense for the model, given that the program (SparkServer) may serve multiple users per session?				
		Yes	No		
5.		a generic graph class, ges must not have lab			
	Adap	otor Composite	Decorator	Proxy	
6.	Scenario: Your web app, <i>Campus Paths</i> , is now very popular; to boost performance, you want the model to cache frequent path queries. Which structural pattern best fits the task				
	Adap	otor Composite	Decorator	Proxy	
7.	Which behavioral pattern does the Comparator class facilitate?				
	Interpreter Observer Visitor				

For each sub-question on this page, write your brief answer after the design pattern.

8. For each design pattern, identify an occurrence somewhere throughout the series, in either your own code or the starter code. For example, we used the pattern to initialize the dataset parsers in HW6 and HW7.		
	a.	Factory Method
	b.	Composite
	c.	Adaptor
	d.	Iterator
	e.	Observer