Feedback — Optional Week 10 Quiz (Part 2)

Help Center

You submitted this quiz on **Mon 9 Mar 2015 3:48 PM PDT**. You got a score of **7.50** out of **10.00**. However, you will not get credit for it, since it was submitted past the deadline.

Question 1

Which of the following characterizes the key difference between the Reactor and Proactor patterns?

Your Answer	Score	Explanation
 The Reactor pattern can be implemented in multiple programming languages, whereas the Proactor is limited to only C++ and Java 		
 The Reactor handles initiative events, whereas the Proactor handles completion events 	1.00	
 The Reactor pattern supports asynchronous operations, whereas the Proactor pattern supports synchronous operations 		
 The Proactor pattern uses callbacks, whereas the Reactor pattern doesn't 		
Total	1.00 /	
	1.00	

Question 2

Which of the following are benefits of the Proactor pattern? (Check all that apply)

Your Answer		Score	Explanation
✓ Simplification of app synchronization	~	0.25	

Ease of programming, debugging, and testing	×	0.00
	×	0.00
Decoupling threading from concurrency	×	0.00
Total		0.25 / 1.00

Question 3

Which of the following reasons explain why the ACE Proactor framework has more classes than the ACE Reactor framework?

Your Answer	Score	Explanation
The ACE Proactor framework runs efficiently on a smaller number of operating systems platforms		
 The ACE Proactor framework uses C++ traits more extensively 		
The use of asynchronous I/O separates operation invocation from operation completion in time and space	✓ 1.00	
The ACE Proactor framework provides a larger set of features than the ACE Reactor framework		
Total	1.00 /	
	1.00	

Question 4

A proactive I/O model is harder to program than reactive and synchronous I/o models for which of the following reasons? (Check all that apply)

Your Answer		Score	Explanation
✓ There are no higher-level frameworks available to simplify	×	0.00	
the design and implementation of proactive I/O-based			

applications and services		
☐ It requires the use of programming languages that do not support common object-oriented constructs	~	0.25
▼ There's a time/space separation between asynchronous invocations and completion handling that requires tricky state management	~	0.25
▼ There are significant accidental complexities associated with the quality of asynchronous I/O interfaces and implementations on many operating systems	~	0.25
Total		0.75 / 1.00

Question 5

Which of the following are benefits of the ACE Proactor framework? (Check all that apply)

Your Answer		Score	Explanation
Provides a portable framework that runs efficiently on all operating system platforms	×	0.00	
✓ Simplifies programming by tightly coupling I/O operations in time and space	×	0.00	
Alleviates reactive I/O bottlenecks	~	0.25	
✓ Processes requests concurrently without the overhead of synchronous I/O and multi-threading	~	0.25	
Total		0.50 / 1.00	

Question 6

True or false: To save space, an asynchronous completion token is not passed along with the

request or response itself.			
Your Answer		Score	Explanation
False	~	1.00	
True			
Total		1.00 / 1.00	

Question 7

Which of the following are NOT benefits of the Proactor path through the pattern language used to implement the JAWS web server? (Check all that apply)

	Score	Explanation
~	0.25	
×	0.00	
~	0.25	
×	0.00	
	0.50 /	
	1.00	
	*	✓ 0.25X 0.00✓ 0.25X 0.00

Question 8

Which of the following are NOT benefits of frameworks? (check all that apply)

Your Answer		Score	Explanation
Reuse of implementation	~	0.25	
✓ Steep learning curve	~	0.25	

Reuse of design	~	0.25
Language-independent	×	0.00
Total		0.75 / 1.00

Question 9

Which of the following are limitations of using patterns? (Check all that apply)

Your Answer		Score	Explanation
Subtle implementation and optimization details may be overlooked	×	0.00	
✓ Language specific features can complicate the pattern implementation	~	0.25	
✓ Using patterns when they are not needed incurring significantly more code	~	0.25	
☐ Shared vocabulary that enhances communication	~	0.25	
Total		0.75 / 1.00	

Question 10

What is a design pattern?

Your Answer	Score	Explanation
A repetitive design present in some programming languages		
 A reusable solution to a common problem in a given context 	✓ 1.00	
A recurring programming language element		

Total	1.00 /	