CptS 122 – Data Structures

April 2, 2018



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	•	Take-Home: Quiz 7	(15 pts) - Inherita	nce in C++
Part I: Sh	ort Answ	ver.		
1. (6 pts)	What is	inheritance? Explain.		
	subclas (method more fu	s. The derived class ds) and instantiated v	and the exist class ariables (fields) in coneed in the derived of	sed class by deriving a share all the functions ommon, but we can add class without rewriting the
2. (3 pts)	Provide	an example of <i>multiple</i>	inheritance. Explain y	our example.
	MS Surface Pro inherits the properties from both a tablet and a laptop. It has Windows OS installed and can act like a personal computer, but it's also able to transform to a tablet since it equipped a touch screen on it.			
Part II: F	ill-In-The	e-Blank.		
3. (2 pts) The following class diagram is an example of multilevel inheritance.				
Sha	ipe			
Recta	ingle			
7				
Squ	are			
		nce is representative of demonstrates this relation		a relationship. A retationship. A retated as a Shape object.
C(onstructo	object of a derived cla or is called impl ne derived-class object.	icitly or explicitly to in	base class' iitialize the data members of

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