Week 5 Homework

① This is a preview of the published version of the quiz

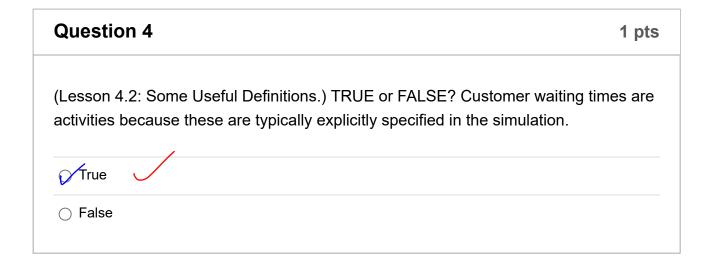
Started: Jul 2 at 7:48am

Quiz Instructions

Question 1	1 pts
(Lesson 4.1: Steps in a Simulation Study.) Which steps are regarded as essent a successful simulation study? (There may be more than one correct answer.)	tial for
a. Problem formulation	
5. Model validation	
c. Model verification	
d. Experimental design	
e. Output analysis	
☐ f. Attendance at a Justin Bieber concert	

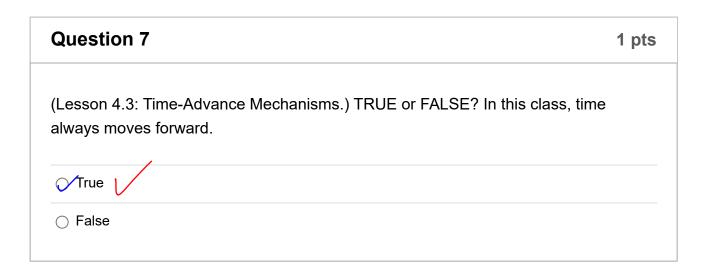
Question 2	1 pts
model	building
(Lesson 4.1: Steps in a Simulation Study.) Suppose that I have modelled t	the arriving
calls to a call center as a Poisson process. What do I have to carry out in	order to
determine if that's indeed a reasonable model assumption?	
○ a. Problem formulation	
b. Model validation	
○ c. Model verification	
○ d. Attend a Justin Bieber concert	

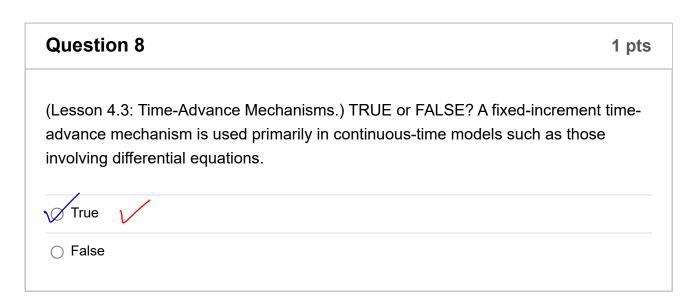
Question 3 (Lesson 4.2: Some Useful Definitions.) Which of the following times could be regarded as events? (There may be more than one correct answer.) a. Customers arrive at Justin's concert venue b. Justin forgets a lyric c. Justin sings the wrong note d. Angry customers depart the venue e. A customer is 11 years old



Question 5	1 pts
(Lesson 4.3: Time-Advance Mechanisms.) TRUE or FALSE? The simulation time is a variable.	clock
True	
○ False	

Question 6	1 pts
(Lesson 4.3: Time-Advance Mechanisms.) TRUE or FALSE? The simulation claime always equals real time.	lock
○ True ✓ False	

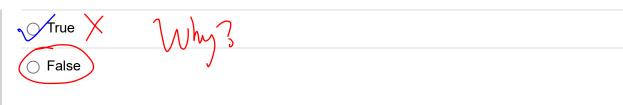




Question 9 1 pts

advance mechanism is typically used in queueing services, and departures.	g models involving customer anivals
O True A	
○ False	
Question 10	1 pts
(Lesson 4.3: Time-Advance Mechanisms.) TRUE	or FALSE? The future events list
contains all known upcoming events, including a	
machine breakdown times.	
True /	
○ False	
Question 11	1 pts
(Lesson 4.3: Time-Advance Mechanisms.) TRUE updated any time an event occurs.	or FALSE? The FEL can be
√True √	
○ False	
Question 12	1 pt
	I Pt-

system state to change between consecutive event times.



Question 13	1 pts
(Lesson 4.3: Time-Advance Mechanisms.) TRUE or FALSE? In a simulation unimext-event time-advance mechanism, the simulation clock moves to the movimminent event. True False	_

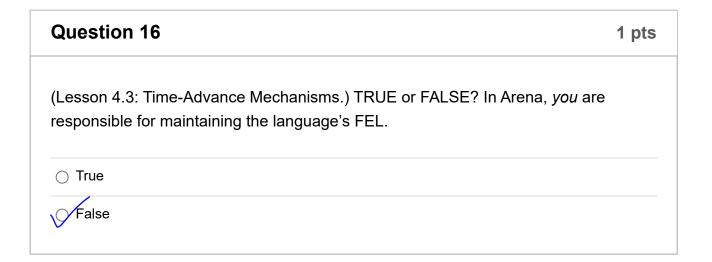
Question 14

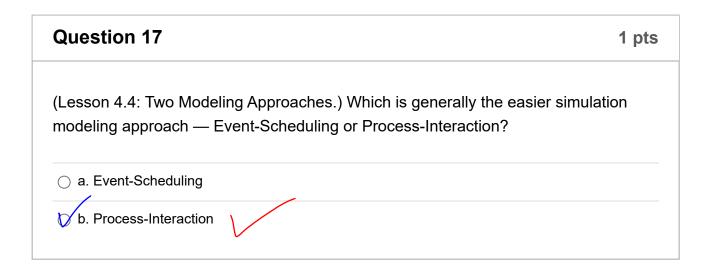
(Lesson 4.3: Time-Advance Mechanisms.) TRUE or FALSE? When a new event occurs, the simulation may update the chronological order of the FEL's events by inserting new events, deleting events, moving them around, or even doing nothing.

True

False

Question 15	1 pts
(Lesson 4.3: Time-Advance Mechanisms.) TRUE or FALSE? Almost ever event computer simulation language maintains a FEL somewhere.	y discrete-
True False	

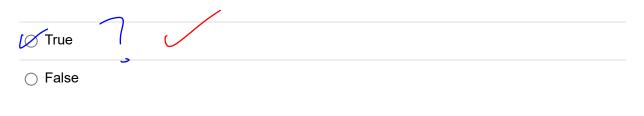




Question 18	1 pts
(Lesson 4.4: Two Modeling Approaches.) Which is the modeling approach add Arena — Event-Scheduling or Process-Interaction?	opted by
○ a. Event-Scheduling	
b. Process-Interaction	

Question 19 1 pts

(Lesson 4.4: Two Modeling Approaches.) TRUE or FALSE? A simulation language incorporating the P-I approach considers the events that a generic customer undergoes as it passes through the system, and then automatically does the bookkeeping to keep track of how all such customers interact with each other.



Question 20	1 pts
(Lesson 4.5: Simulation Languages.) How many simulation languages are ther	re?
○ a. Just a few.	
○ b. 5-10.	
○ c. 10-50. ✓ d. >>50.	

Question 21	1 pts
(Lesson 4.5: Simulation Languages.) Where can you learn about simulation languages? (There may be more than one correct answer.)	
a. Right here, right now!	
C. The Winter Simulation Conference	
Ud. Vendor short courses	
e. The Justin Bieber School of Hard Knox. (Nice spelling, Justin.)	

Question 22

(Lesson 4.5: Simulation Languages.) When selecting a simulation language, what characteristics do you have to take into consideration?

a. Cost
b. Ease of use
c. Modeling "world view" (e.g., event-scheduling or process-interaction)
d. Random variate generation capabilities
e. Output analysis capabilities
f. All of the above

Not saved

Submit Quiz