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Quiz: OS Basics

Total points 81/81

Take the quiz solo, but feel free to consult a partner student, the book, the videos or other resources if needed. Re-take quiz if your score is less than 80% or if you just want some more practice.

The respondent's email (faiyaz@pdx.edu) was recorded on submission of this form.

Which of the following are Operating Systems? *				
	Operating System	Not an Operating System	Score	
Android		0	1/1	✓
PostgreSQL	0	•	1/1	~
gcc and gdb	0	•	1/1	~
Apple OSX	•	0	1/1	~
Microsoft Windows	•	0	1/1	~
Microsoft Office	0	•	1/1	~
Linux	•	0	1/1	✓
GitHub	0	•	1/1	✓

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Score

1/1

1/1

10/9/22, 8:24 PM No this is not Yes the OS part of the OS's plays this role role prevent all uses of I/O devices make hardware easier to use compile highlevel language programs to assembly code allow concurrent use of computer systems maintain revision history of software source files enable efficient use of computer systems prevent

> programmer errors (bugs)

processes and users from each

encrypt data

optimize database queries

protect

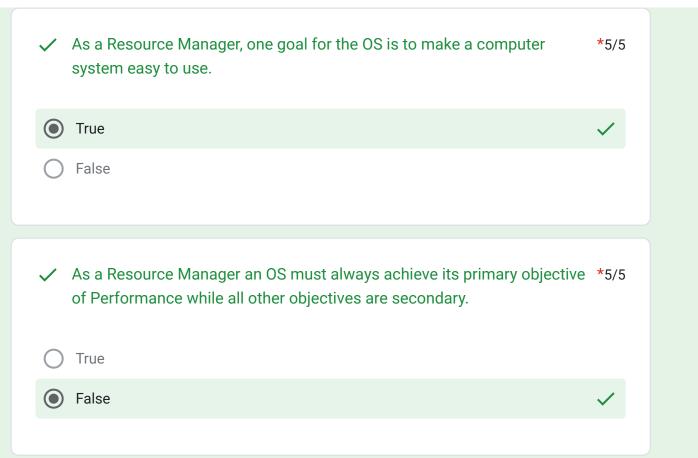
other

0	•	1/1	✓
•	0	1/1	✓
0		1/1	~
•	0	1/1	~
0	•	1/1	~
•	0	1/1	~
0	•	1/1	~
\bigcirc		1/1	✓

✓ "process"	and "virtual memory" are examples of what? *	5/5
Concurred		
	Management	
Virtualiza	tion Abstractions	~
Synchron	ization	
	rent processes run the same program. Will they share an space or will each process have its own memory address space?	* 5/5
The will s	hare the same address space	
Each prod	cess will have its own address space	✓
	can support many concurrent processes and schedules each of use the CPU." Is this an example of a mechanism, a policy or an?	*5/5
mechanis	sm	✓
Objective		
policy		

✓	"We aim to prevent starvation by ensuring that all processes make forward progress." Is this an example of a mechanism, a policy or an objective?	*5/5
0	policy	
0	mechanism	
•	objective	✓
✓	"The OS process scheduler boosts the priority of any process that has no run during the past 30 seconds so that the process is more likely to run soon."	t * 5/5
0	mechanism	
•	policy	✓
0	objective	
✓	One OS role is to act as a Resource Manager *	5/5
•	True	✓
0	False	

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Which of the following are common causes of concurrency in an Operating * System (select all that apply)?					
	Yes, this is a common cause of concurrency in an OS	No, this is not something that by itself causes concurrency in an OS	Score		
multiple processes	•	0	1/1	✓	
files and folders (directories)	0	•	1/1	✓	
multiple users	•	0	1/1	✓	
virtual memory	0	•	1/1	✓	
interrupts from I/O devices	•	0	1/1	✓	
password protection	0	•	1/1	✓	
the network	•	0	1/1	✓	
multiple CPUs	•	0	1/1	✓	
✓ Each process has its own virtual memory space. *				5/5	ı
True				✓	
False					

✓ An Operating System helps multiple processes to share a single physical *5/5 memory. True False If Process A uses 10GB of virtual memory, Process B uses 10GB of virtual *5/5 memory, and the computer has 16GB total physical memory, then... the OS can run both processes the OS cannot run either process the OS cannot run both processes This form was created inside of Portland State University. Google Forms