Module 1 Summary Exercises

Points 30 **Due** Apr 4 at 11:59pm

Questions 30

Available Mar 28 at 12am - Apr 4 at 11:59pm 8 days Time Limit 1,440 Minutes

Allowed Attempts 2

Instructions

Instructions



These exercises are based on the concepts introduced in Module 1. I encourage you to attempt these exercises twice, especially as a learning and study aid.

You will have two attempts, each of which will last for 24 hours, and only the top score will be counted. You are allowed any resources (including explorations, Piazza, classmates, the internet, etc...).

Good luck!



Take the Quiz Again

Attempt History

	Attempt	Time	Score	
LATEST	Attempt 1	47 minutes	27 out of 30	

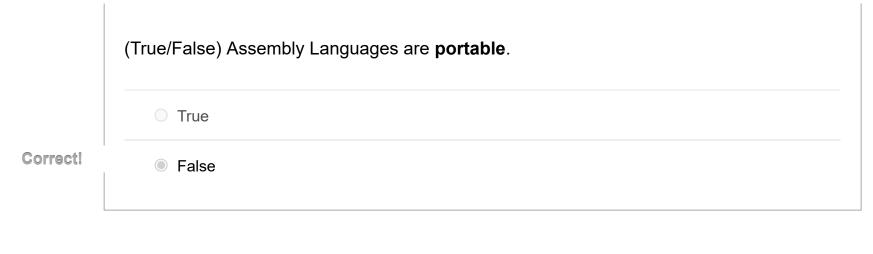
Score for this attempt: 27 out of 30

Submitted Mar 30 at 8pm

This attempt took 47 minutes.

	Question 1	1 / 1 pts
	Which utility program reads an assembly language source file and produc file?	es an object
	detangler	
	compiler	
Correct!	assembler	
	editor	
•	Oloader	
	linker	
	Question 2	1 / 1 pts

Correct!



A program is considered portable if it . . . can be executed on multiple platforms. can be quickly copied from conventional RAM into high-speed RAM. can be rewritten in a different programming language without losing its meaning.

Question 4 1/1 pts

Language Hierarchy: Rank the following languages from low level (1) to high level (4).

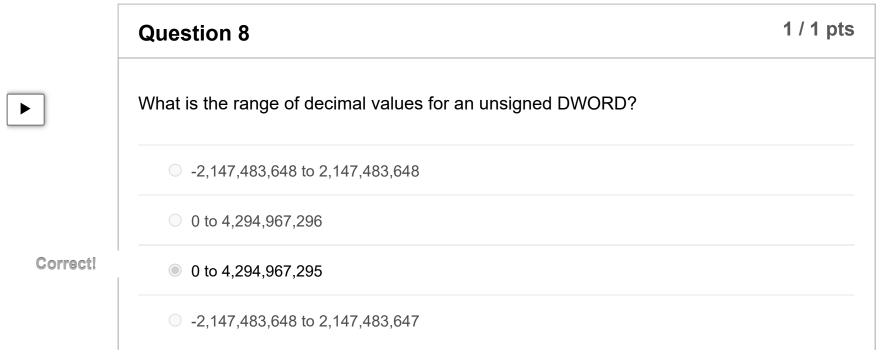
	Level 4 (Highest Level): [Select]
	Level 3: [Select]
	Level 2: ARM Assembly
	Level 1 (Lowest level): Machine Code
	Answer 1:
Correct!	English
	Answer 2:
Correct!	Python
	Answer 3:
Correct!	ARM Assembly
	Answer 4:
Correct!	Machine Code

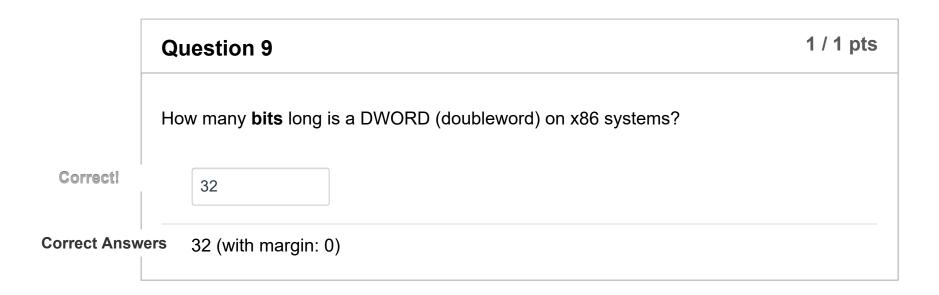
Question 5 1 / 1 pts

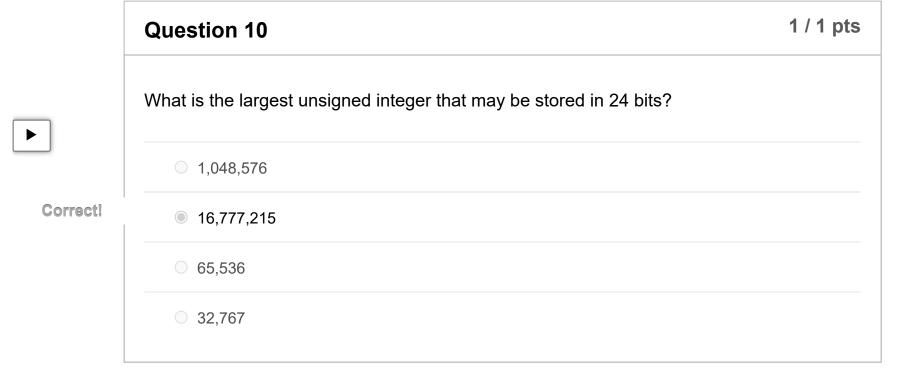
	Compared to higher-level languages, which of the following are benefits of Assembly Language programming? (Check all that apply)
Correct!	Hands-on Code Optimization
	☐ Integrated Tools
Correct!	☐ Intuitive Programs
	☑ Direct Manipulation of Memory
	☐ Ease of Use

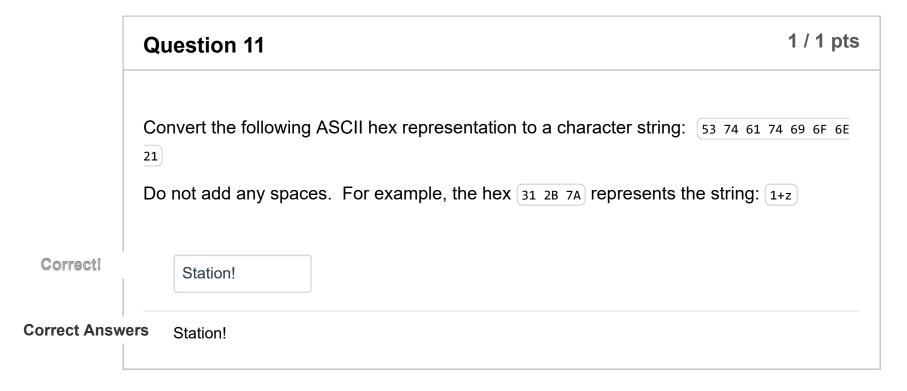


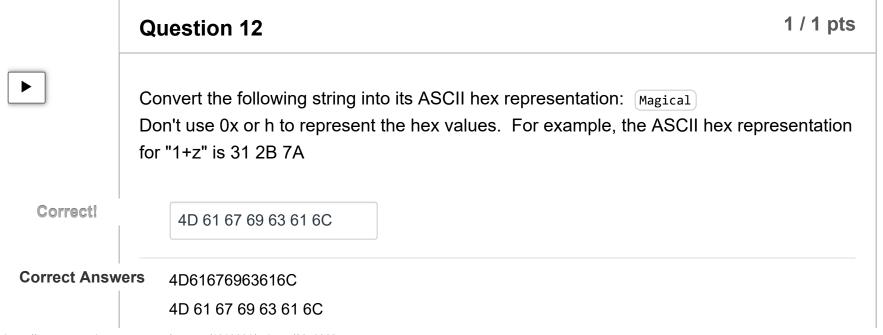
The ASCII code values for alphabetic letters (e.g. 'a') are smaller than for decimal digits (e.g. '1'). True False











Which of the following binary values is equivalent to hexadecimal 7CBE? O111 1011 1011 1100 O111 1100 1100 1110 O111 1100 1011 1110 O111 1100 1011 1110



Correct!

Which list contains the correct hexadecimal translation (in order) of the following unsigned decimal integers? 33, 95, 257 6A, 5F, 101 22, 5E, 11A

21, 62, 103

Correct!

21, 5F, 101

Question 15

1 / 1 pts

Complete the following Unsigned Binary Addition (answers should also be in Binary):

NOTE: Canvas may add thousands place commas (for example 11001100 may appear as 11,001,100) ... Please ignore these.

10111010 + 10100001 -----



101,011,011

Correct Answer

101,011,011

Question 16

1 / 1 pts

Complete the following Unsigned Hexadecimal Addition (answers should also be in Hexadecimal):

NOTE: Canvas may add thousands place commas (for example 9C4B may appear as 9,C4B) ... Please ignore these.

```
2C37
+ 571B
-----
```

Correct!

8,352

Correct Answer 8,352

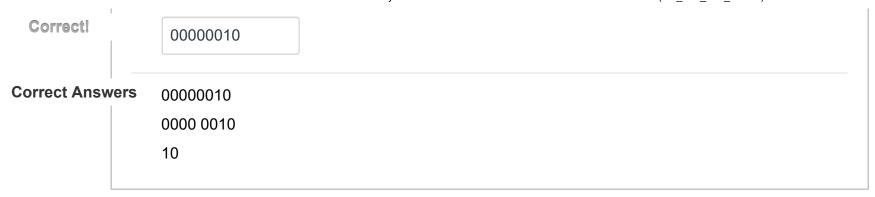
Question 17 1 / 1 pts

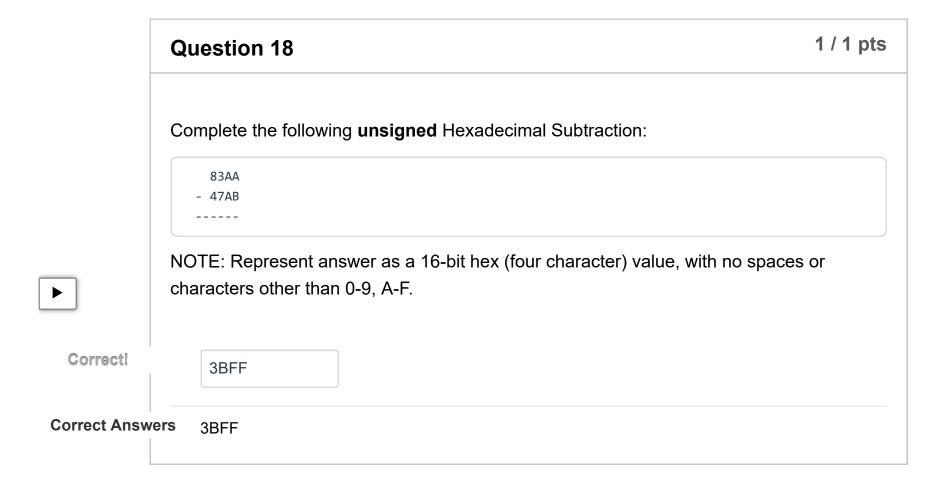


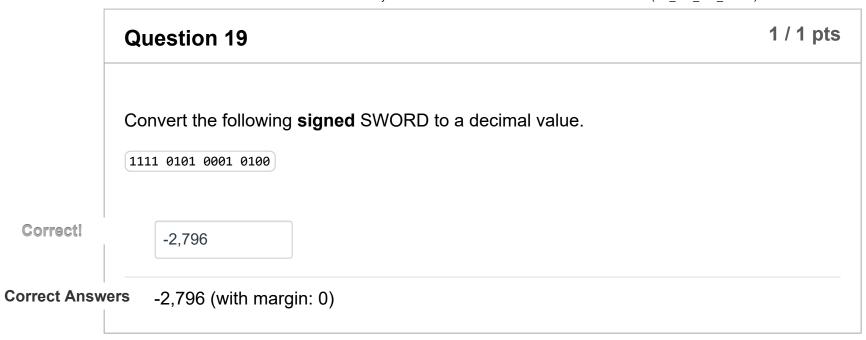
Complete the following unsigned Binary Subtraction:

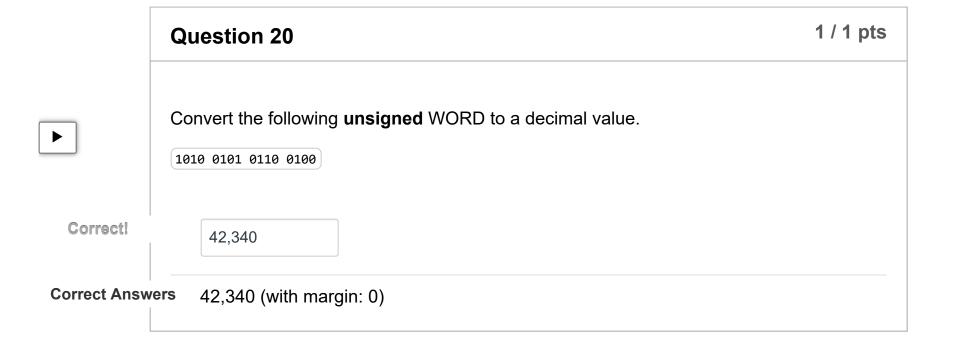
01110000 - 01101110 -----

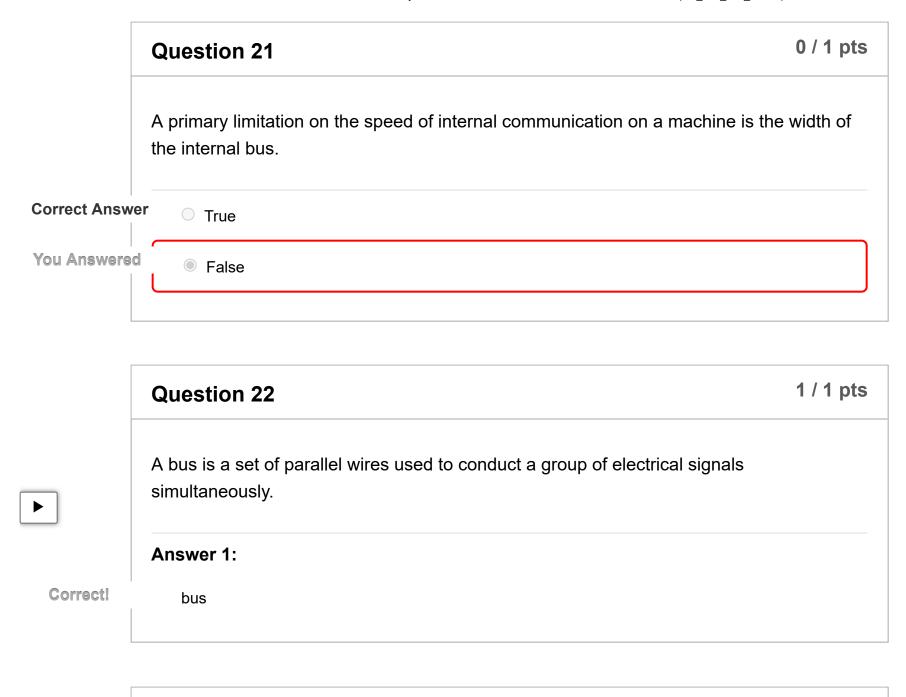
NOTE: Represent answer as an 8-bit value, with no spaces or characters other than 0s and 1s.











https://oregonstate.instructure.com/courses/1810861/quizzes/2659868

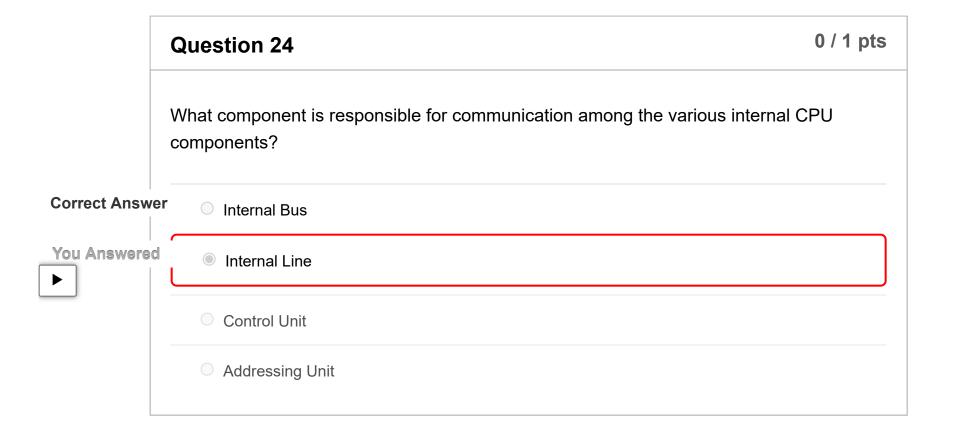
Question 23

1 / 1 pts

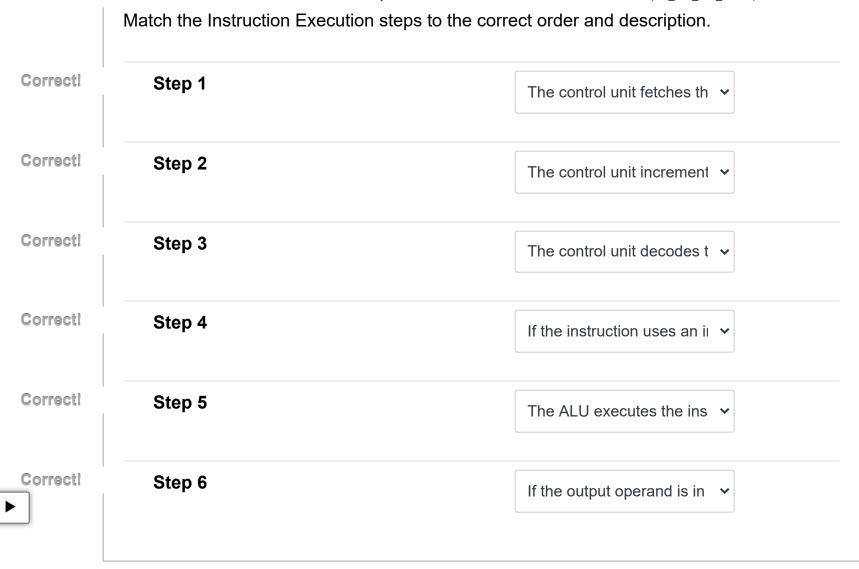
When transferring instructions and data between the *Main Memory Unit* and the *CPU*, the memory location where the data is stored must be placed on the Address Bus.

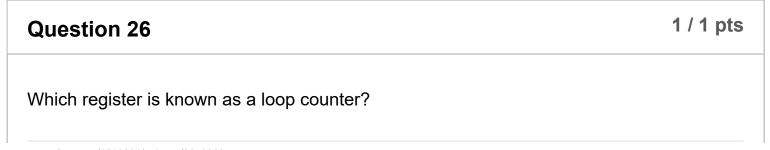
Answer 1:

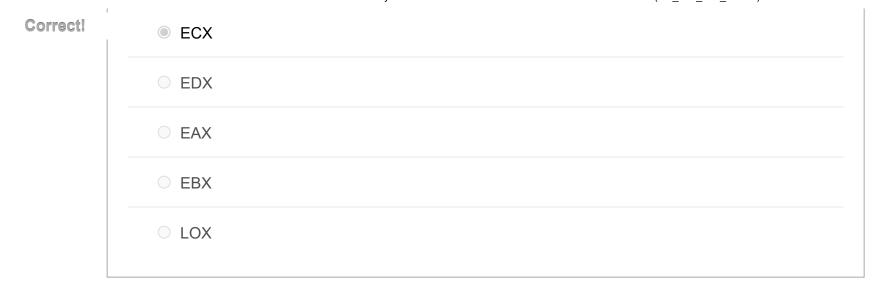
Address

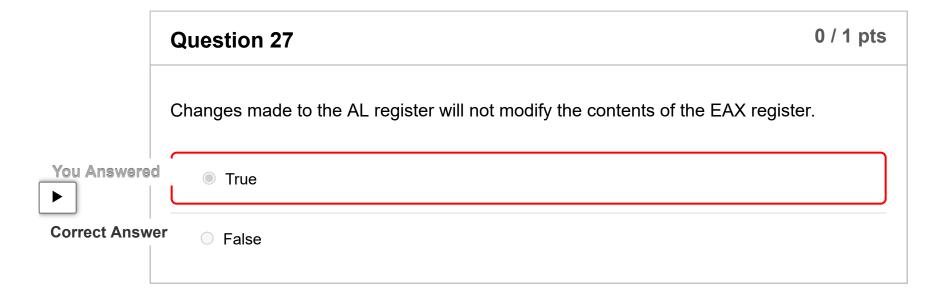


Question 25 1 / 1 pts





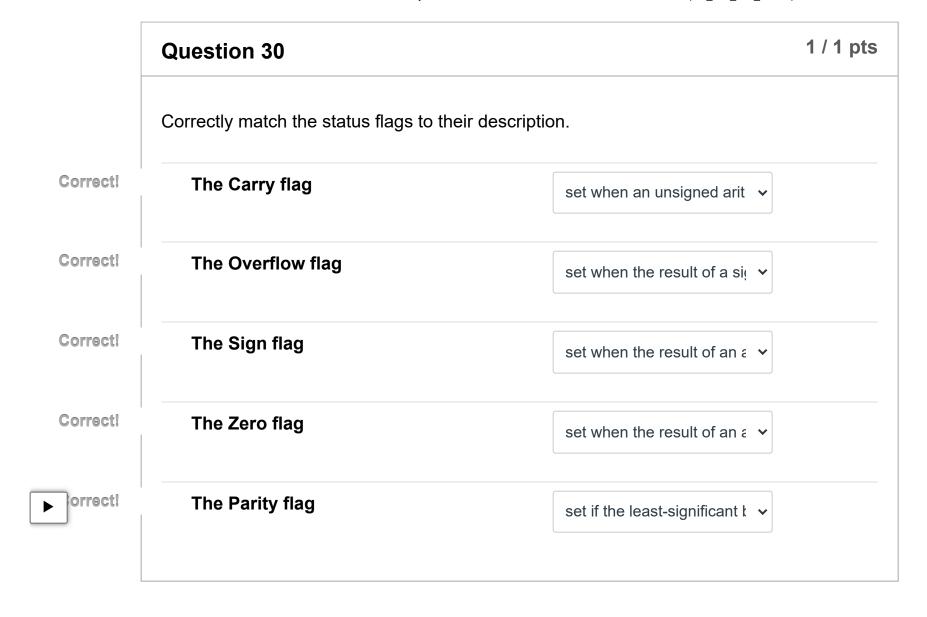




Question 28 1 / 1 pts

	Which flag is set when an unsigned value is too large to fit into a destination operand?
	Overflow
	auxiliary carry
Correct!	carry
	○ sign

	Question 29	ts
•	High-speed memory that reduces the frequency of access by the CPU to conventional memory is called	
	system memory	
	local memory	
Correct!	○ virtual memory	
	cache memory	



Quiz Score: 27 out of 30