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Exercises 3

Exercises 3

5/5 points (graded)

ESTIMATED TIME TO COMPLETE: 5 minutes

Note that you will have to answer all questions before you can click the Check button.

1. True or False? A stored program computer is designed to compute precisely one computation, such as a square root, or the trajectory of a missile.

☐ True

☒ False



2. True or False? A fixed program computer is designed to run any computation, by interpreting a sequence of program instructions that are read into it.

☐ True

☒ False



3. A program counter



- ☐ counts the number of primitive operations executed by the program.
- ☐ counts the number of primitive operations comprising a complex operation.
- ☒ points the computer to the next instruction to execute in the program.
- ☐ remembers how many times a program has been executed.



4. What does it mean when we say that "the computer walks through the sequence executing some computation"?

- ☐ The computer tests each instruction to ensure it will not harm the circuitry.
- ☐ The computer executes the instructions in strict, linear sequence, just like walking in a straight line.
- ☒ The computer executes the instructions mostly in a linear sequence, except sometimes it jumps to a different place in the sequence.
- ☐ The computer slowly executes instructions so that we can follow its progress, rather than running a program at full speed.



5. True or False? In order to compute everything that is computable, every computer must be able to handle the sixteen most primitive operations.

- ☐ True
- ☒ False



Enviar



Exercises 3

[Ocultar Discusión](#)

Tema: Lecture 1 / Exercises 3

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- | | | |
|---|---|----|
| 💬 | Are the PowerPoint slides used by the professor available?
Hello everyone! I was wondering if the slides used by the professor in the lectures available for th... | 3 |
| ? | Program counter vs. control unit?
It wasn't readily clear in the lecture the difference between a program counter and a control unit... | 3 |
| 💬 | What are the "sixteen most primitive operations"?
In this most recent video lecture, I recall six primitives were mentioned, and they belonged to Ala... | 5 |
| ? | which part of the computer is then the "interpreter"?
Going by the video, the Interpreter is a "special program that is going to execute each of the seq... | 2 |
| 💬 | Glad I took notes...
So to make me remember this, I look as the interpreter as like a dog walker. It walks the dog (instr... | 1 |
| ? | Can someone explain why question 2 in exercise 3 is false?
The question is "A fixed program computer is designed to run any computation, by interpreting a ... | 7 |
| ? | pay close attention to the fixed and stored questions!
pay close attention to the fixed and stored questions! I believe all the information was available in... | 1 |
| 💬 | Question 4 - I don't remember this information from the lecture
Did it just go over my head while listening to the lecture? | 22 |
| ? | clear the idea about the stored program
in a question number 1 ans:false why? please explain | 4 |
| 💬 | Program counter
what is a program counter? | 4 |

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