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Exercises 3

Finger Exercises due Aug 5, 2020 20:30 -03 *Completo*

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

✔

Explanation:
Alan Turing proved that all problems can be computed with only 6 primitives!

Enviar

Answers are displayed within the problem

Exercises 3

Ocultar discussão

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Exercise 3 question 3 explain please	10
Question 5 What are these sixteen primitive operations? Are they not required?	4
Full Marks in a row! 5/5	1
Exercise 3, Question 4 Does the computer jump to a different place only when it is told to do so, or does this happen becau...	6
5/5 yesss !!!	1
counting operations I used to think that the CPU operated the counting operations.	1
Unclear response I don't understand the response to the third question. Maybe it is my level of English that affects my_...	11 new
Question 3. A program counter. My understanding of a program counter is that it simple counts how many times a certain operation...	8
What are primitives? Is it okay to understand primitives as "the building blocks of a programming language (basic operati...	10
Release Dates of Material Problem Set 1 is due on Jun 18. Does this mean that the next set of materials (lectures and finger ex...	2