



MITx: 6.00.1x

## Introduction to Computer Science and Programming Using Python

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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 ✓

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## Exercises 3







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	<u>What is the reasoning behind Q5?</u>	7
	I got the right answer. However, my argument for choosing 'false' was that even if a comput...	
	<u>Question 4 - Programs do not jump without a reason</u>	5
	Yet the answer goes on like: <code>"a program executes instructions **mostly** in a linear seque...</code>	
	<u>Interpreter ( or not)?</u>	4
	I think the program the lecturer describes as an interpreter is more commonly described as...	
	<u>Question 4 is confusing</u>	23
	Is there any rhyme or reason to the jumping around to non-linear sequencing? That seems...	
	<u>First question is very badly worded</u>	7
	The instructional design on the first question makes it a language test, not a tesat of unders...	
	<u>To instructors (moderators)</u>	1
	Hello there, Given that the Discussions comments here are similar to those in a classroom, I ...	

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