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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

