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MITx: 6.00.1x Introduction to Computer Science and Programming Using Python

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L1 PROBLEM 3 (5/5 points)

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.
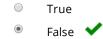
   ○ True

   ● 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 ✔

   [Check]   [Show Answer]

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