

## Python Programming: An Introduction to Computer Sc...

## 1.10. Exercises

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**1.10 Exercises****Review Questions****True/False**

1. Computer science is the study of computers. **False**
2. The CPU is the “brain” of the computer. **True**
3. Secondary memory is also called RAM. **False**
4. All information that a computer is currently working on is stored in main memory. **True**
5. The syntax of a language is its meaning, and semantics is its form. **True**
6. A function definition is a sequence of statements that defines a new command. **True**
7. A programming environment refers to a place where programmers work. **False**
8. A variable is used to give a name to a value so it can be referred to in other places. **True**
9. A loop is used to skip over a section of a program. **False**
10. A chaotic function can't be computed by a computer. **False**

**Multiple Choice**

1. What is the fundamental question of computer science?  
a) How fast can a computer compute?  
b) What can be computed? **b**  
c) What is the most effective programming language?  
d) How much money can a programmer make?
2. An algorithm is like a  
a) newspaper    b) venus flytrap    c) drum    d) recipe **d**
3. A problem is intractable when  
a) you cannot reverse its solution  
b) it involves tractors

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- c) it has many solutions                      d  
d) it is not practical to solve
4. Which of the following is *not* an example of secondary memory?  
a) RAM      b) hard drive      c) USB flash drive      d) CD-ROM      a
5. Computer languages designed to be used and understood by humans are  
a) natural languages  
b) high-level computer languages  
c) machine languages                      b  
d) fetch-execute languages
6. A statement is  
a) a translation of machine language  
b) a complete computer command                      c  
c) a precise description of a problem  
d) a section of an algorithm
7. One difference between a compiler and an interpreter is      b  
a) a compiler is a program  
b) a compiler is used to translate high-level language into machine language  
c) a compiler is no longer needed after a program is translated  
d) a compiler processes source code
8. By convention, the statements of a program are often placed in a function called  
a) import      b) main      c) program      d) IDLE      b
9. Which of the following is *not* true of comments?  
a) They make a program more efficient  
b) They are intended for human readers                      a  
c) They are ignored by Python  
d) In Python, they begin with a pound sign (#)
10. The items listed in the parentheses of a function definition are called  
a) parentheticals      b) scripts      c) comments      d) parameters      d

**Discussion**

1. Compare and contrast the following pairs of concepts from the chapter: