

Algorithms and Pseudocode

Algorithms

1. In your own words, define an *algorithm*.
2. What is the difference between an *algorithm* and an *implementation* of an algorithm?
3. Describe an algorithm for each task below.
 - a. Inflating a balloon.
 - b. Tying your shoes.
 - c. Calculating the length of the hypotenuse of a right triangle.

Pseudocode

4. In your own words, define pseudocode.
5. Why should pseudocode be written using language that is independent of a specific programming language?
6. Why is it important to write pseudocode that is *unambiguous*?
7. Write pseudocode for each scenario below.
 - a. Find the largest of three integers, entered by the user.
 - b. Determine whether the sum or product of two integers is greater.
 - c. Find the average of n integers, entered by the user.