

# Exercises: Algorithm analysis

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20 points

In a single document, perform the analysis for each of the following questions. Some questions require conditions; for these questions, follow your intuition when attempting to answer them.

- 1) An algorithm that takes 2 integers `a` and `b`, and returns their sum.  
(5 points)
  
- 2) An algorithm that calculates the volume of a parallelepiped (prism whose faces are rectangles or parallelograms).  
(5 points)
  
- 3) An algorithm that takes 2 integers `a` and `b`, and returns the larger of the 2 integers.  
(5 points)
  
- 4) An algorithm that returns the sum of all the integers between 2 given integers `min` and `max`.  
(5 points)