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Algorithm 2 (ALG2)-Tcl/tk

1.Experience

The major difficulties in this assignment is obviously familiarizing with the programming language. It takes me a long time to learn the syntax and figure out how to take input from command line, as well as the list structure in this language. Moreover, it is a major difficulty to find the appropriate built-in functions to help realize the task. The first used function is split, after taking in the input as a string, the split method divides the string and stores them in a list. However, the elements in the list might still contain some whitespaces because split method can only divide the elements by one whitespace, while in this case multiple whitespaces are expected. Therefore, the “string is integer” method is used to determine whether the element is a member of the integer class. If it is, then the integer is appended to a new list. Afterwards, bubble sort method is used to sort through the list. A problem occurs here only at prism lab computer: the expression [lindex $mylist $j+1] will always produce an error due to the addition of $j and 1. Unable to figure out why, I assign a new variable ‘a’ to represent the result of $j + 1, and use [lindex $mylist $a] instead. Upon finishing this assignment, I learn more elementary knowledge about the tcl/tk programming language.

2.Test-run

 