

Pseudocode

Main function asks for input

Loop for 7 alphanumeric values

Store array in shared memory

Fork 3 child processes

Compare two elements

- If element 1 is a digit and element 2 is a letter, swap them
- If element 1 is greater than element 2 (number wise, or letter wise), swap them

Repeat the comparison until the whole array is properly sorted

This algorithm correctly solves the problem by iterating over the array multiple times until the order of alphanumeric values is what we desire.