Lab 3: Accessing Data from Memory Locations

1 Problem Statement

In this lab, we will write assembly language programs to:

- 1. Move a block of data stored in 'n' consecutive memory locations to another 'n' consecutive memory locations.
 - (a) Store 'n' 8-bit numbers in consecutive locations starting from 7501H. Append with 00H to show the end of data.
 - (b) Move this block of data to memory location starting from 7601H, with same order as the saved data.
- 2. Arrange the block of data in the above memory locations in ascending order
 - (a) Store ten 8-bit numbers in consecutive locations starting from 7501H
 - (b) Sort this data in ascending order starting from the memory location

2 Procedure

You may use the following logic to perform the above operations

2.1 Sequence of steps for moving block of data Flowchart:

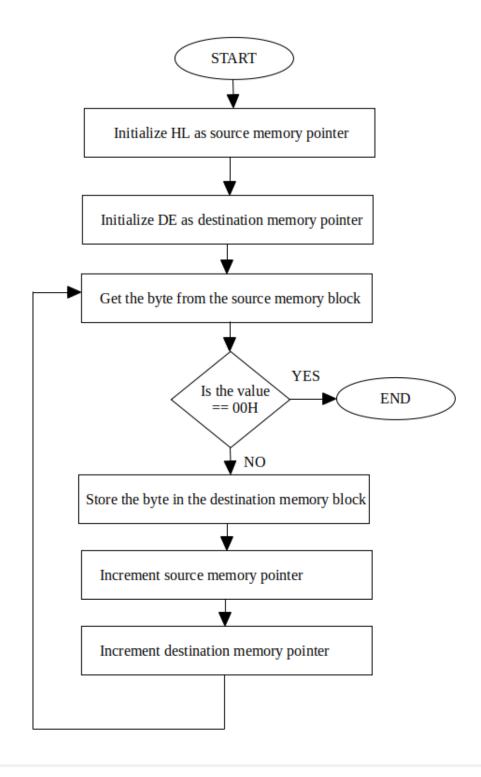


Figure 1: Flowchart for moving block of data

2.2 Sequence of steps for arranging the block of data in ascending order

Pseudocode: