

National Sun Yat-Sen University
ASSEMBLY LANGUAGE AND MICROCOMPUTER
Program #1
Due 11:59 PM Nov 10 2019

1. <**Programming Problem I**> Write an ARM assembly code to implement a reverse program which can print out the input string in reverse order to the screen. In addition, the English letters in the string have to be converted to lowercase. For example, when you execute reverse program as follows:

arm-none-eabi-run reverse "It is Tom's apple."

Then the screen should show the following results:

reversed result: .elppa s'mot si ti

Note:

- (a) Your assembly code should follow the APCS rules described in the textbook.
- (b) The submission of your homework should follow the method announced by TA before the deadline. Homework submitted after the deadline will not receive any score.