

National Sun Yat-Sen University
ASSEMBLY LANGUAGE AND MICROCOMPUTER
Program #1
Due 11:59 PM Nov 9 2023

<**Programming Problem I**> Write an ARM assembly code to implement a program which will convert the input string into lowercase, and remove all non-alphabet characters. The result will be shown in the screen.

For example, when you execute this program as follows:

arm-none-eabi-run prog1 “Tom’s brother Timmy is 6 years old.”

Then the screen should show the following results:

prog1 result: tomsbrothertimmyisyearsold

You can use *printf()* function to print the result, but are not allowed to use *scanf()* function.

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.