CSED211 Homework #2, Due Oct 8, 2021

1. Exercise 3.60 on page 348
2. Exercise 3.61 on page 349.
   Attach your c-code and compiled assembly code to show that the generated code uses a conditional move.
3. Exercises 3.62 and 3.63 show differently generated assembly codes for 'switch' statement in c program. Explain the factors that affect the compiler to generate assembly code like 3.62 or 3.63.
4. Modified Exercise 3.64 on page 352 (solve A & B for the following code)

   ```
   2    leaq    (%rsi, %rsi, 4), %rax
   3    leaq    (%rsi, %rax, 2), %rax
   4    movq    %rdi, %rsi
   5    salq    $6, %rsi
   6    leaq    (%rsi, %rdi, 2), %rdi
   7    addq    %rax, %rdi
   8    addq    %rdi, %rdx
   9    movq    A( , %rdx , 8), %rax
   10   movq    %rax , (%rcx)
   11   movl    $2640, %eax
   12   ret
   ```

5. Exercise 3.67 on page 354
6. Exercise 3.69 on page 357
7. Exercise 3.70 on page 358
8. Exercise 3.72 on page 359