Problem 2. (10 points):

ret

Consider the following assembly code for a C for loop:

```
decode_me:
               %esi, %edi
       cmpl
                                           ed1-e5i
                                                                           X - M
               .L5
       jle
       leal
              (%rdi, %rdi), %edx
       movl
              $1, %eax
              %esi, %edx
       subl
.L4:
                               X-1
Y+U
              $1, %edi
       subl
       addl
              $4, %esi
                                         edx+ eax
edx-6 ed1-e51
              %edx, %eax
       addl
       subl
              $6, %edx
                                                                            X+result
       cmp1
              %esi, %edi
               .L4
       jg
                                                                            ×- 6
                                  eax tub
               $46, %eax
       addl
       ret
.L5:
               $47, %eax
       movl
```

Based on the assembly code above, fill in the blanks below in its corresponding C source code. (Note: you may only use the symbolic variables x, y, and result in your expressions below — do not use register names.)