CMP 334 Spring 2019   Quiz 5   Name _____

Supply the missing program fragment to complete the **TOY** assembly language
subprogram below to replaces all the (signed) negative values in an array with 0 and
return the number of entries so changed in register **$F**.

```
Truncate
        lis     $9,       1       : $9 = 1 = c
        add     $F, $0, $0        : $F = 0 = f
        add     $8, $0, $0        : $8 = 0 = j
Loop
        sub     $0, $8, $B        :  j ? n
        bc      UGE, Done
        add     $7, $A, $8        : $7 = @A[j]
        l       $6, $7,   0       : $6 =   A[j] = t




        sub     $0, $6, $0        :  A[j] ? 0
        bc      SGE, Skip         :  A[j] < 0
        add     $6, $0, $0        :  change t to 0
        st      $6, $7,   0       :  A[j] = 0
        add     $F, $F,   1       :  $F = # changed
Skip




        add     $8, $8, $9        :  j = j+1
        bc      ALL, Loop
Done
        bcl     ALL,$1, $0        :  return to caller
```