In all Test problems, assume 32-bit words unless stated otherwise.

1. (20) Consider the code
   
   ```
   .data
   .rept 2
   .string "abc"
   .endr
   ```

   At what offset will the second 'c' be stored?

2. Consider the following code, which multiplies a word labeled x in the .data segment by 9.

   ```
   .text
   .globl _start
   _start:
   movl blank (a) , %edx
   movl blank (b) , %ecx
   shl blank (c) , %edx
   addl blank (d)
   movl %edx , blank (e)
   ```

   (a) (10) State what goes in blank (a).
   (b) (10) State what goes in blank (b).
   (c) (15) State what goes in blank (c).
   (d) (15) State what goes in blank (d).
   (e) (10) State what goes in blank (e).

3. (20) Give a single assembly instruction that places 1s in bit positions 0, 1 and 4 of EAX.