Problem 27. (7 points):

Match each of the assembler routines on the left with the equivalent C function on the right.

```
int choice1(int x)
                                             return (x < 0);
foo1:
     pushl %ebp
     movl %esp,%ebp
                                         int choice2(int x)
     movl 8(%ebp), %eax
     sall $4,%eax
                                             return (x << 31) & 1;
     subl 8(%ebp),%eax
     movl %ebp,%esp
     popl %ebp
     ret
                                         int choice3(int x)
foo2:
                                             return 15 * x;
     pushl %ebp
     movl %esp, %ebp
     movl 8(%ebp),%eax
     testl %eax, %eax
                                         int choice4(int x)
     jge .L4
     addl $15,%eax
                                             return (x + 15) / 4
.L4:
     sarl $4,%eax
     movl %ebp,%esp
     popl %ebp
                                         int choice5(int x)
     ret
                                             return x / 16;
foo3:
     pushl %ebp
     movl %esp, %ebp
     movl 8(%ebp),%eax
                                         int choice6(int x)
     shrl $31,%eax
     movl %ebp,%esp
                                             return (x \gg 31);
     popl %ebp
     ret
                                         Fill in your answers here:
```

foo1 corresponds to choice ____

foo2 corresponds to choice ______.
foo3 corresponds to choice ______.