Problem 21. (8 points):

foo:

Consider the following assembly representation of a function foo containing a for loop:

```
pushl %ebp
 movl %esp, %ebp
 pushl %ebx
  movl 8(%ebp),%ebx
 leal 2(%ebx),%edx
 xorl %ecx,%ecx
  cmpl %ebx, %ecx
  jge .L4
.L6:
  leal 5(%ecx,%edx),%edx
  leal 3(%ecx),%eax
  imull %eax,%edx
  incl %ecx
  cmpl %ebx,%ecx
  jl .L6
.L4:
 movl %edx, %eax
 popl %ebx
 movl %ebp, %esp
 popl %ebp
 ret
Fill in the blanks to provide the functionality of the loop:
int foo(int a)
    int i;
    int result = ____;
    for( ____; ___; i++ ) {
    return result;
}
```