

1. In the C code below, some details of the for loop have been hidden. In its original form, the function was compiled to produce the assembly language that follows. Please fill out the underline part

```
int f4(short x[], int n)
{
    int i;
    int result = 1;
    for ( INIT ; TEST ; UPDATE )
        result = result * x[i];
    return result;
}

# assembly code of f4
f4:
    pushl %ebp
    movl %esp, %ebp
    subl $24, %esp
    movl $1, -16(%ebp)
    movl 12(%ebp), %eax
    decl %eax
    movl %eax, -12(%ebp)
    jmp L21
L22:
    movl -12(%ebp), %eax
    sall %eax
    addl 8(%ebp), %eax
    movw (%eax), %ax
    movswl %ax,%edx
    movl -16(%ebp), %eax
    imull %edx, %eax
    movl %eax, -16(%ebp)
    subl $3, -12(%ebp)
L21:
    cmpl $0, -12(%ebp)
    jle L22
    movl -16(%ebp), %eax
    leave
    ret
```