

Exercise 3.4

This is more than just a matter of substituting D's for I's; you also have to change the variable numbers because each value takes two slots. The answer:

```
.method public static Dcalc(DDDD)D
.var 0 is a D
.var 2 is b D
.var 4 is c D
.var 6 is x D
dload_0    ; Push a
dload 6    ; Push x
dload 6    ; Push x again
dmul       ; Calculate x^2
dmul       ; Calculate ax^2

dload_2    ; Push b
dload 6    ; Push x
dmul       ; Push bx

dload 4    ; Push c

dadd       ; Compute bx+c
dadd       ; Compute ax^2+bx+c

dreturn
.end method
```

The maximum stack height written this way is 6.

Exercise 3.5

```
.method public static icalc2(IIII)I
.iloader_0 ; Push a
.iloader_3 ; Push x
imul       ; Calculate ax

.iloader_1 ; Push b
iadd       ; Calculate ax+b

.iloader_3 ; Push x
imul       ; Compute ax^2+bx
```