**(define occurs-bound?**

**(lambda (var exp)**

**(cond**

**((symbol? exp) #f)**

**((eqv? (car exp) 'lambda)**

**(or (occurs-bound? var (caddr exp))**

**(and (eqv? (caadr exp) var)**

**(occurs-free? var (caddr exp)))))**

**(else (or (occurs-bound? var (car exp))**

**(occurs-bound? var (cadr exp)))))))**

**(define occurs-free?** ; done in the book, so don't do it here.

(**lambda (var exp)**

**(cond**

**((symbol? exp) (eqv? var exp))**

**((eqv? (car exp) 'lambda)**

**(and (not (eqv? (caadr exp) var))**

**(occurs-free? var (caddr exp))))**

**(else (or (occurs-free? var (car exp))**

**(occurs-free? var (cadr exp)))))))**