CSCE 330 Fall 2000

QUIZ 32

Assigned Monday 00/12/1

Here is an example of an association list.

`CSCEcourses = [(330, "Programming Language Structures"), (350, "Data Structures and Algorithms")]`

Write a function `insert (key, value, list)` to insert the pair `(key, value)` in the association list `list`. For the purpose of this quiz, you are not required to check for duplicate keys, although in a proper implementation you should!

Answer:

```
pearl.cs.sc.edu 1 % sml
Standard ML of New Jersey, Version 110.0.3, January 30, 1998 [CM; autoload
enabled]
- val al = [(1,2), (3,4)];
val al = [(1,2),(3,4)] : (int * int) list
- fun insert (k, v, L) = (k,v) :: L;
val insert = fn : 'a * 'b * ('a * 'b) list -> ('a * 'b) list
- insert(3,4, al);
val it = [(3,4),(1,2),(3,4)] : (int * int) list
-
```