(a)

Subproblem:

Let T(i,j) be the minimum account of travel time that obtained up to the city i, assuming that we riding j to city i).

The base case is T (1, j) = d(i)/V(j) for all j.

(b)

T(i,C) = min(T(i-1,a) when R(i-1,a,C) == 1 and 1 <= i <= n

T(i,H) = min(T(i-1,(if R(i,C,H)==1 : j = H)), T(i-1,(if R(i,C,M)==1 : j = M)), T(i-1,(if R(i,C,D)==1 : j = D))) + d(i)/V(H)

T(i,M) = min(T(i-1,(if R(i,C,H)==1 : j = H)), T(i-1,(if R(i,C,M)==1 : j = M)), T(i-1,(if R(i,C,D)==1 : j = D))) + d(i)/V(M)

T(i,D) = min(T(i-1,(if R(i,C,H)==1 : j = H)), T(i-1,(if R(i,C,M)==1 : j = M)), T(i-1,(if R(i,C,D)==1 : j = D))) + d(i)/V(D)