Implement and test the following algorithm which computes an optimal sequence for performing a set of tests that does not violate a given precedence constrains on the tests sequencing. The precedence constraints are represented by an array of disjoined linked lists of test, where the ith test in a linked list is the immediate successor of the (i-1)th test in the same linked list. For each test, , there are cost of testing i and probability of positive result . An optimal sequencing of tests is based on the minimizing the expected testing cost It has been proven that the following Greedy algorithm provides an optimal sequencing of tests.

Assume the array of linked lists is dented by L, where L[i][k] is the kth test in the linked list L[i] and the its immediate predecessors are L[i}{0}, L[i}[1],….L[i][k-1]. Let C[i][k] and P[i][k] be the cost and probability associated with the test L[i][k]