DISTANCE VECTOR ALGORITHM

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CODE:
#include <iostream>
#include <stdio.h>
using namespace std;
struct node {
  int dist[20];
  int from[20];
} route[10];
int main()
  int dm[20][20], no;
  cout << "Enter no of nodes." << endl;
  cin >> no;
  cout << "Enter the distance matrix:" << endl;
  for (int i = 0; i < no; i++) {
     for (int j = 0; j < no; j++) {
        cin >> dm[i][j];
        /* Set distance from i to i as 0 */
        dm[i][i] = 0;
        route[i].dist[j] = dm[i][j];
        route[i].from[j] = j;
     }
  }
  int flag;
  do {
     flag = 0;
     for (int i = 0; i < no; i++) {
        for (int j = 0; j < no; j++) {
           for (int k = 0; k < no; k++) {
              if ((route[i].dist[j]) > (route[i].dist[k] + route[k].dist[j])) {
                route[i].dist[j] = route[i].dist[k] + route[k].dist[j];
                route[i].from[j] = k;
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flag = 1;
             }
          }
       }
    }
 } while (flag);
 for (int i = 0; i < no; i++) {
    cout << "Router info for router: " << i + 1 << endl;
    cout << "Dest\tNext Hop\tDist" << endl;</pre>
    for (int j = 0; j < no; j++)
       printf("\%d\t\%d\n", j+1, route[i].from[j]+1, route[i].dist[j]);
 }
 return 0;
rocess exited after 66.1 seconds with return value 0 ress any key to continue . . .
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