```
Snehita. 9
# include <iostream's
                                                                        1BM18 CS109
 using namespace std;
                  int dist[20];
 struct hale 1
                     int from [ 20);
  y Route [10].
int main!)
      int dm[20][20], no;
      eout < "Inter no of nodes" < endl;
      ain >> no;
      wut & "Enter dist-matria" « end;
      for ( int i=0; i < no; i+1)
       h pos(int j=0; j < no; j+1)
             un mam [islj);
               dm[i][j]=0',
               route [i]. distlj]= dm[i][j];
                route [i]. from[j].j)
      int flag=0;
      pr (int i=0; iz no; i+1)
          por (in jobij (no ij+1)
                 if (muteli). distly) > (nontell). dist [t) + noutelt). dist [j))
            for ( int k=0; k < no; k+1)
                       somelij. distlj): soutelij. dist[k] + soutelk). diet lj');
                       nouveli). fromlj1=k;
     for (int 1:0; 1'< no; 1'+1)
      4 for (jut 5=0; 5< no: j+1)
               eout « j+1 « soute[17. from[j]+1, soute[i].dis/j];
    setum o;
```