```
Algorithm:
dijkstra (a smax) (max), jut n, jut sn)
   int cost [max] (max), distance (max), pred (max),
   int visited (max), count, min dist, next node, i, i;
  for (i=0; icn; i++)
    for (j=0; jcn;j++)
        if (a[i][j]==0)
           cost (i) (j)=infinity.
          ely
             cost(i)(i)=a(i)(i);
    for 6-0; icn; i++1}
           distance (i) = cost[sn][i];
          pred (i) = sn;
           Visited (i) =0;
     distance (sn)=0;
     Visited(sn)=1:
      Count=1
      while (country-1) {
          min dist = infinity;
           for (1=0; 1'cn; 1'++)
               if (distance [i] & mindist to luisited (i))
                     min dist = distance (i);
                    next node = i:
            usited [next_node)=1;
              for (1=0; icn; 1++)
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for (1=0; 14n; 1++) if (il = Sn) cout u distance of node " li u "is " u distance (i); Cout co " In Path "ce is j = pred (j); cout " 2-" "; y nehile (jl=sh);

it (!visited (i))

wunt++;

pred (i) = next nod;