function [mst, cost] = prim(D)

[n,n] = size(D); % The matrix is n by n, where n = # nodes.

intree = [1]; nintree=1; % intree= nodes selected. nintree= #intree

k = 0; % k is the number of edges selected

notintree = [2:n]';nnotintree=n-1; % notintree= nodes not selected. nnotintree=#notintree

while nintree < n,

mincost = Inf;

for i=1:nintree,

for j=1:nnotintree,

ni = intree(i); nj = notintree(j);

if D(ni,nj) < mincost,

mincost = D(ni,nj);ei = ni; ej = nj; % Save nodes and edge selected

end;

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