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3. Greedy search krusakal's algorithm
#include<stdio.h>
#include<stdlib.h>
int i, j, k, a, b, u, v, n, ne = 1;
int min, mincost = 0, cost[9][9], parent[9];
int find(int);
int uni(int, int);
int main() {
  printf("\n\tImplementation of Kruskal's algorithm\n");
  printf("\nEnter the number of vertices:");
  scanf("%d", &n);
  printf("\nEnter the cost adjacency matrix:\n");
  for (i = 1; i \le n; i++) {
     for (j = 1; j \le n; j++)
       scanf("%d", &cost[i][j]);
       if (cost[i][j] == 0)
          cost[i][i] = 999;
     }
  } printf("The edges of Minimum Cost Spanning Tree are\n");
  while (ne < n) {
     for (i = 1, min = 999; i \le n; i++) 
        for (j = 1; j \le n; j++) {
          if (cost[i][j] < min) {
             min = cost[i][j];
             a = u = i;
             b = v = i;
          } } }
  u = find(u);
     v = find(v);
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if (uni(u, v)) {
       printf("%d edge (%d,%d) = %d\n", ne++, a, b, min);
       mincost += min;
     }
     cost[a][b] = cost[b][a] = 999;
  }
  printf("\n\tMinimum cost = %d\n", mincost);
  return 0;
}
int\ find(int\ i)\ \{
  while (parent[i])
     i = parent[i];
  return i;
int uni(int i, int j) {
  if (i != j) {
     parent[j] = i;
     return 1;
  }
  return 0;
}
```