

```

#include <stdio.h>

#define INF 9999
#define MAX 100

int main() {
    int graph[MAX][MAX], visited[MAX], n, i, j, count = 0;
    int min, x, y, totalCost = 0;

    printf("Enter number of vertices: ");
    scanf("%d", &n);

    printf("Enter adjacency matrix (use 0 for no edge):\n");
    for (i = 0; i < n; i++)
        for (j = 0; j < n; j++) {
            scanf("%d", &graph[i][j]);
            if (graph[i][j] == 0)
                graph[i][j] = INF;
        }

    for (i = 0; i < n; i++)
        visited[i] = 0;

    visited[0] = 1;

    printf("Edges in MST:\n");

    while (count < n - 1) {
        min = INF;
        for (i = 0; i < n; i++) {
            if (visited[i]) {
                for (j = 0; j < n; j++) {
                    if (!visited[j] && graph[i][j] < min) {
                        min = graph[i][j];
                        x = i;
                        y = j;
                    }
                }
            }
        }

        printf("%d - %d : %d\n", x, y, graph[x][y]);
        totalCost += graph[x][y];
        visited[y] = 1;
        count++;
    }

    printf("Total cost of MST: %d\n", totalCost);
}

```

```
    return 0;  
}
```

