```
#include <stdio.h>
#include <limits.h>
#define N 4
int dist[N][N] = {
                {0,10,15,20},
                \{10,0,35,25\},\
                {15,35,0,30},
                {20,25,30,0}
                     } ;
int tsp(int mask, int pos) {
    if (mask == (1 << N) - 1) {
        return dist[pos][0];
    int minCost= INT MAX;
    int city;
    for (city = 0; city < N; city++) {</pre>
        if ((mask & (1 << city)) == 0)
            int newCost= dist[pos][city]+tsp(mask | (1
<< city),city);
            if(newCost<minCost)</pre>
            {
                  minCost=newCost;
            }
        }
    return minCost;
}
int main() {
    int result = tsp(1, 0);
    printf("\nMinimum cost: %d\n", result);
   return 0;
}
```