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#56000908 | Daniel_Chura's solution for [UVA-10496]



```
using namespace std;
     int beepers;
     int adj[11][11];
     int memo[11][4096];
     inline int getShortestPerimeter(int coordinate, int visited)
11
         if(visited == (1 << (beepers + 1)) - 1)</pre>
12
             return adj[coordinate][0];
14
         int &c = memo[coordinate][visited];
         if(c != -1)
         int shortest = 20000000000;
19
         for(int i = 0; i <= beepers; ++i)</pre>
             if(i != coordinate && !(visited & (1 << i)))</pre>
                  shortest = min(shortest, adj[coordinate][i] + getShortestPerimeter(i, visited | (1 <<</pre>
     i)));
         return c = shortest;
     int main(void)
         ios_base::sync_with_stdio(0);
         cin.tie(0);
         int testCases;
         pair<int, int> coordinates[11];
         cin >> testCases;
         while(testCases--)
             int width, height;
             cin >> width >> height;
             cin >> coordinates[0].first >> coordinates[0].second;
             cin >> beepers;
             for(int i = 1; i <= beepers; ++i)</pre>
                 cin >> coordinates[i].first >> coordinates[i].second;
             for(int i = 0; i <= beepers; ++i)</pre>
                 for(int j = i + 1; j <= beepers; ++j)</pre>
54
                      adj[i][j] = abs(coordinates[i].first - coordinates[j].first) +
     abs(coordinates[i].second - coordinates[j].second);
                     adj[j][i] = adj[i][j];
             memset(memo, -1, sizeof(memo));
60
```

https://vjudge.net/problem/UVA-10496