```
1 #[[#include]]# <iostream>
2 #[[#include]]# <algorithm>
  #[[#include]]# <iomanip>
  #[[#include]]# <map>
5 #[[#include]]# <set>
6 #[[#include]]# <queue>
  #[[#include]]# <stack>
  #[[#include]]# <numeric>
  #[[#include]]# <bitset>
9
   #[[#include]]# <cmath>
10
11
   static const int MOD = 1000000007;
12
   using 11 = long long;
13
14
   using u32 = uint32_t;
   using namespace std;
15
16
   template<class T> constexpr T INF = ::numeric_limits<T>::max()/32*15+208;
17
18
   int main() {
19
20
       return 0;
^{21}
22
   }
   template <typename T>
1
   struct edge {
2
       int from, to; T cost;
3
       edge(int to, T cost) : from(-1), to(to), cost(cost) {}
       edge(int from, int to, T cost) : from(from), to(to), cost(cost) {}
5
   };
6
   template <typename T>
   vector<T> dijkstra(int s, vector<vector<edge<T>>> &G) {
       size_t n=G.size();
10
       vector<T> d(n, INF<T>);
11
       priority_queue<pair<T, int>, vector<pair<T, int>>, greater<>> Q;
12
       d[s] = 0;
13
       Q.emplace(0,s);
14
       while(!Q.empty()){
15
           T cost; int i;
16
            tie(cost, i) = Q.top(); Q.pop();
17
            if(d[i] < cost) continue;</pre>
18
            for (auto &&e : G[i]) {
19
                auto cost2 = cost + e.cost;
20
                if(d[e.to] <= cost2) continue;</pre>
21
22
                d[e.to] = cost2;
23
                Q.emplace(d[e.to], e.to);
            }
24
25
       return d;
26
27
  template<typename T>
   T extgcd(T a, T b, T &x ,T &y) {
       for (T u = y = 1, v = x = 0; a;)
```