```
1 #include <bits/stdc++.h>
 2 const int INF = 1e9;
 3 const int MOD = 1e9+7;
 4 const long long LINF = 1e18;
 5 \# define dump(x) cout << 'x' << ' = ' << (x) << ` `;
 6 #define FOR(i,a,b) for(int i=(a);i<(b);++i)
 7 #define REP(i,n) for(int i=0;i<(n);++i)</pre>
 8 #define REPR(i,n) for(int i=n;i>=0;i--)
 9 #define FOREACH(x,a) for(auto& (x) : (a) )
10 typedef long long ll;
11 using namespace std;
13 struct edge {int from, to, cost;};
14 int MAX_V;
15
16 vector<edge> es;
17 int d[100010];
18 int V, E;
20 void bellman_ford(int s) {
21
       REP(i,V) d[i] = INF;
       d[s] = 0;
22
23
       while(true){
24
           bool update = false;
25
           for (auto& x: es) {
26
               edge e = x;
               if (d[e.from] != INF && d[e.to] > d[e.from] + e.cost) {
27
28
                   d[e.to] = d[e.from] + e.cost;
29
                   update = true;
30
               }
31
32
           if (!update) break;
33
       }
34
35 }
36
37
```

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