```
1 #include "../bits/stdc++.h"
3 // 最大流(Ford Fulkerson)
 4 // O(FE)
 5 // verified: http://judge.u-aizu.ac.jp/onlinejudge/review.jsp?rid=3633122
 6 class FordFulkerson
7 {
       using type = int;
const int INF = 1e9;
8
9
10
        struct Edge
11
        {
            // 行き先,容量,逆辺
12
            int to;
13
14
            type cap;
            int rev;
15
16
            Edge(int _t, type _c, int _r) : to(_t), cap(_c), rev(_r) {}
17
18
19
        using Graph = std::vector<std::vector<Edge>>;
20
        int V;
       Graph G;
// dfs で訪問済みか
21
22
23
        std::vector<bool> usd;
24
        // 増加パスを dfs で探す
25
26
        type dfs(int v, int t, type f)
27
28
            if (v == t)
29
                return f;
           usd[v] = true;
for (auto &e : G[v])
30
31
32
                if (!usd[e.to] && e.cap > 0)
33
34
                     auto d = dfs(e.to, t, std::min(f, e.cap));
35
36
                     if (d > 0)
37
                     {
38
                         e.cap -= d;
39
                         G[e.to][e.rev].cap += d;
40
                         return d;
41
                }
42
43
            return 0:
44
45
        }
46
47
   public:
       FordFulkerson(int _v) : V(_v), G(_v), usd(_v) {} void add(int from, int to, type cap)
48
49
50
51
            G[from].push_back(Edge{to, cap, (int)G[to].size()});
52
            G[to].push_back(Edge{from, 0, (int)G[from].size() - 1});
53
        ,
// s->t の最大流を求める
54
55
        type maxFlow(int s, int t)
56
        {
57
            type ret = 0;
58
            while (true)
59
            {
60
                for (int i = 0; i < (int)G.size(); i++)</pre>
                    usd[i] = false;
                type f = dfs(s, t, INF);
62
                if (f == 0)
63
64
                    return ret;
                ret += f;
65
66
           }
67
       }
68 };
69
```

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