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PROG: tcave

LANG: C++

ID: hayk.sa1

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#include

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using namespace std;

int d[5010];

int pr[5010];

queue Q;

vector g[5010];

void bfs(int t)

{

int p, i;

memset(d, -1, sizeof(d));

d[0] = 0;

Q.push(0);

while (!Q.empty())

{

p = Q.front(); Q.pop();

if (p == t)

return;

i = g[p].size();

for (i--; i >= 0; i--)

if (d[g[p][i]] == -1)

{

d[g[p][i]] = d[p]+1;

pr[g[p][i]] = p;

Q.push(g[p][i]);

}

}

}

void print(int p)

{

if (p)

print(pr[p]);

printf("%d\n", p+1);

}

int main()

{

freopen("tcave.in", "r", stdin);

freopen("tcave.out", "w", stdout);

int n, m, t, p, q, w, i;

scanf("%d%d%d", &n, &m, &t);

for (i = 0; i < m; i++)

{

scanf("%d%d%d", &p, &q, &w);

g[p-1].push\_back(q-1);

g[p-1].push\_back(w-1);

g[q-1].push\_back(p-1);

g[q-1].push\_back(w-1);

g[w-1].push\_back(p-1);

g[w-1].push\_back(q-1);

}

bfs(t-1);

printf("%d\n", d[t-1]+1);

print(t-1);

return 0;

}