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PROG: shuttle

LANG: C++

ID: hayk.sa1

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#include <cstdio>

#include <map>

#include <vector>

using namespace std;

map<int,int> s;

vector<pair<int,int> > g[20010];

int main()

{

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

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

int n, m, c, u, v, p, i, j;

map<int,int>::iterator I;

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

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

{

scanf("%d%d%d", &u, &v, &p);

g[u].push\_back(make\_pair(v, p));

}

u = 0;

p = c;

for (i = 1; i <= m; i++)

{

if (s.find(i) != s.end())

{

p += s[i];

u += s[i];

}

for (j = 0; j < g[i].size(); j++)

{

s[g[i][j].first] += g[i][j].second;

p -= g[i][j].second;

}

I = s.end();

if (I != s.begin())

for (--I; p < 0;)

if (p+I->second < 0)

{

p += I->second;

s.erase(I--);

}

else

{

I->second += p;

if (I->second == 0)

s.erase(I--);

p = 0;

}

}

printf("%d\n", u);

return 0;

}