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PROG: flow

LANG: C++

ID: hayk.sa1

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#include <stdio.h>

#include <string.h>

#define Min(a, b) ((a)<(b)?(a):(b))

int d[60][60];

int way[60], l;

bool t[60], found;

void dfs(int p)

{

if (p == 25)

{

found = 1;

return;

}

int i;

for (i = 0; i < 52; i++)

if (!t[i] && d[p][i])

{

t[i] = 1;

way[l++] = i;

dfs(i);

if (found)

return;

l--;

}

}

int main()

{

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

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

char p, q;

int n, w, f, i;

scanf("%d\n", &n);

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

{

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

if (p >= 'a')

p += 26-'a';

else

p -= 'A';

if (q >= 'a')

q += 26-'a';

else

q -= 'A';

d[p][q] = d[q][p] += w;

}

f = 0;

l = 1;

way[0] = 0;

while (1)

{

l = 1;

found = 0;

memset(t, 0, sizeof(t));

t[0] = 1;

dfs(0);

if (!found)

break;

w = 1000000000;

for (i = 0; i+1 < l; i++)

w = Min(w, d[way[i]][way[i+1]]);

for (i = 0; i+1 < l; i++)

{

d[way[i]][way[i+1]] -= w;

d[way[i+1]][way[i]] += w;

}

f += w;

}

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

return 0;

}