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PROG: path

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[2][5010];

int e[15010][3];

int \*g[5010], \*w[5010], deg[5010];

int main()

{

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

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

int n, m, sw, k, l, i, j;

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

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

{

scanf("%d%d%d", e[i], e[i]+1, e[i]+2);

deg[--e[i][0]]++;

deg[--e[i][1]]++;

}

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

{

g[i] = new int[deg[i]+1];

w[i] = new int[deg[i]+1];

deg[i] = 0;

}

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

{

g[e[i][0]][deg[e[i][0]]] = e[i][1];

g[e[i][1]][deg[e[i][1]]] = e[i][0];

w[e[i][0]][deg[e[i][0]]++] = w[e[i][1]][deg[e[i][1]]++] = e[i][2];

}

sw = 0;

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

d[0][0] = 0;

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

{

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

{

d[sw^1][j] = 1000000000;

for (l = 0; l < deg[j]; l++)

if (d[sw][g[j][l]] != -1)

d[sw^1][j] = Min(d[sw^1][j], d[sw][g[j][l]]+w[j][l]);

}

sw ^= 1;

}

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

return 0;

}