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PROG: bestspot

LANG: C++

ID: hayk.sa1

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#include <stdio.h>

#define inf 1000000000

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

int f[510];

int d[510][510];

int main()

{

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

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

int n, m, p, w, i, j, k;

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

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

{

scanf("%d", f+i);

f[i]--;

}

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

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

if (i != j)

d[i][j] = inf;

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

{

scanf("%d%d%d", &i, &j, &w);

d[i-1][j-1] = d[j-1][i-1] = w;

}

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

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

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

d[i][j] = Min(d[i][j], d[i][k]+d[k][j]);

k = -1;

m = inf;

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

{

w = 0;

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

w += d[i][f[j]];

if (m > w)

{

m = w;

k = i;

}

}

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

return 0;

}