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PROG: badgras

LANG: C++

ID: hayk.sa1

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#include <stdio.h>

int n, m;

int d[1010][1010];

int st[2][1000010];

int di[8] = {-1, -1, -1, 0, 0, 1, 1, 1};

int dj[8] = {-1, 0, 1, -1, 1, -1, 0, 1};

void flood(int i, int j)

{

int l=0, k;

d[i][j] = 0;

st[0][l] = i;

st[1][l++] = j;

while (l)

{

i = st[0][--l];

j = st[1][l];

for (k = 0; k < 8; k++)

if (d[i+di[k]][j+dj[k]])

{

st[0][l] = i+di[k];

st[1][l++] = j+dj[k];

d[i+di[k]][j+dj[k]] = 0;

}

}

}

int main()

{

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

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

int p=0, i, j;

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

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

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

scanf("%d", d[i]+j);

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

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

if (d[i][j])

{

flood(i, j);

p++;

}

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

return 0;

}