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PROG: lepr

LANG: C++

ID: hayk.sa1

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#include

#define inf 1000000

int n;

int a[210];

int d[210][210];

int di[4] = {1, 0, 1, -1};

int dj[4] = {0, 1, 1, 1};

int solve()

{

int s, p, i, j;

p = 0;

s = -inf;

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

{

p += a[i];

if (s < p)

s = p;

if (p < 0)

p = 0;

}

p = a[0];

for (i = 0, j = n; i+1 != j;)

{

if (p+a[i+1] <= 0 && p+a[j-1] <= 0)

break;

if (p+a[i+1] > 0)

p += a[++i];

else

p += a[--j];

if (s < p)

s = p;

}

return s;

}

int main()

{

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

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

int s, m, i, j, k, l;

scanf("%d", &n);

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

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

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

m = -inf;

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

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

for (k = 0; k < 4; k++)

{

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

a[l] = d[(i+l\*di[k]+n)%n][(j+l\*dj[k]+n)%n];

s = solve();

if (s > m)

m = s;

}

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

return 0;

}