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PROG: coggle

LANG: C++

ID: hayk.sa1

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#include

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int n;

bool f;

char s[25];

char b[6][6];

bool t[6][5];

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

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

void rec(int p, int q, int k)

{

if (k == n)

{

f = 1;

return;

}

int i, u, v;

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

{

u = p+di[i];

v = q+dj[i];

if (u >= 0 && u < 5 && v >= 0 && v < 5 && b[u][v] == s[k] && !t[u][v])

{

t[u][v] = 1;

rec(u, v, k+1);

if (f)

return;

t[u][v] = 0;

}

}

}

int main()

{

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

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

FILE\* dict = fopen("dict.txt", "r");

int m=0, i, j;

for (i = 0; i < 5; i++)

for (j = 0; j < 5; j++)

{

b[i][j] = getchar();

if (i+j != 8)

getchar();

}

while (fscanf(dict, "%s", s) == 1)

{

n = strlen(s);

for (i = 0; i < 5; i++)

for (j = 0; j < 5; j++)

if (b[i][j] == s[0])

{

f = 0;

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

t[i][j] = 1;

rec(i, j, 1);

if (f)

{

m++;

goto there;

}

}

there:;

}

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

return 0;

}