

2013-2014

Pascal devcpp

FreePascal
C, C++.

(*.pas, *.cpp),

```

{stdinout.exe <in.txt >out.txt
}

program STD_IN_OUT;
var
  a,b,Sum:integer;

{
}
procedure LoadDate(var a,b:integer);
begin
  Assign(Input, '');
  Reset(Input);
  readln(a,b);
  Close(Input);
end;

{
}
function Sol(a,b:integer):integer;
begin
  Sol:=a+b;
end;

{
}
procedure SaveDate(Res:integer);
begin
  Assign(Output, '');
  Rewrite(Output);
  writeln(Res);
  Close(Output);
end;

BEGIN
  LoadDate(a,b);
  Sum:=Sol(a,b);
  SaveDate(Sum);
END.

```

1 (100) « »

N=2 , 8, R=3. , 3 , R=6, (N=1, N=2) N=1 .

- 0 - - (N-2)³;
- 1 - , 6 - 6*(N-2)²;
- 2 - , 12 - 12*(N-2);
- 3 - , 8, 8 N=1;
- 4 5 - ;
- 6 - N=1;

2 (100) « »

no, - yes. n. n t — n, n, - yes,

3 (100) « »

4 (100) « »

O(n2), TLE (Time limit exceeded). ID_j B[ID_j] A[ID_j] A[ID_j] >.0. ID_j B[ID_j]

5 (100) « »

A[i,j](0 i N+1,0 j N+1),

```

1 1 1 1 1 1
1 0 0 0 0 1
1 0 0 0 0 1
1 0 0 0 0 1
1 0 0 0 0 1
1 1 1 1 1 1

```

```

      (i - , j - ), (di, dj) - (i, j)
      :
i := i + di;
j := j + dj;
      : i = 1, j = 1, di = 0, dj = 1.
      a[i, j]. a[i + di, j + dj]
      di dj -
      i j.

```

6 (100) « »

```

ord 10- ASCII.
10- 16- 16
16-

```

7 (100) « »

```

"1" ( ),
, ..
«0».
, ( -
, ).

```

8 (100) « »

$$N = (W \text{ div } 2 * R) * (H \text{ div } 2 * R)$$

$$N = W \text{ div } (2 * R);$$

$$N = (W - R) \text{ div } (2 * R);$$

$$h_r = R * \text{sqrt}(3) / 2$$

$$N_{\text{rows}} = (H - 2 * R) \text{ div } h_r;$$

$$\begin{aligned}
 & : N = (N_{\text{rows}} + N_{\text{rows}}) * (N_{\text{rows}} \text{ div } 2) \\
 & : N = (N_{\text{rows}} + N_{\text{rows}}) * (N_{\text{rows}} \text{ div } 2) + N
 \end{aligned}$$

H W.

9 (100) « »

A:

[i, j] (i = 1, j = 1, i = N, j = N)

```

for i := 0 to n + 1 do
for j := 0 to n + 1 do
a[i, j] := wall;
wal 1 -

```

free,

wal 1

free

```

const
free = -1;
wall = -2;

```

- free;
- (0), wal 1;
- (X), free (Xi Xj ;

```

..0..
X.0.@
..0..
.....
.....

```

```

-1 -1 -2 -1 -1
-1 -1 -2 -1 0
-1 -1 -2 -1 -1
-1 -1 -1 -1 -1
-1 -1 -1 -1 -1

```

free

```

-1 -1 -2 -1 1
-1 -1 -2 1 0
-1 -1 -2 -1 1
-1 -1 -1 -1 -1
-1 -1 -1 -1 -1

```

free
 :
 -1 -1 -2 2 1
 -1 -1 -2 1 0
 -1 -1 -2 2 1
 -1 -1 -1 -1 2
 -1 -1 -1 -1 -1
 2 (

:
 -1 -1 -2 2 1
 -1 -1 -2 1 0
 -i -1 -2 2 1
 -1 -1 -1 3 2
 -1 -1 -1 -1 3

-1 -1 -2 2 1
 -1 -1 -2 1 0
 -1 -1 -2 2 1
 -1 -1 4 3 2
 -1 -1 -1 4 3

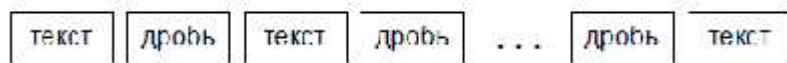
-1 8 -2 2 1
 8 7 -2 1 0
 7 6 -2 2 1
 6 5 4 3 2
 7 6 5 4 3

9 8 -2 2 1
 8 7 -2 1 0
 7 6 -2 2 1
 6 5 4 3 2
 7 6 5 4 3

A[1, xj] free, N
 (a[xi, xj] > 0)

10 (100) « »

i- j-



:

S.

$$D + \max H(num) + \max H(den) , \quad H(num) - , H(den)$$

‘/’.

D,

S.