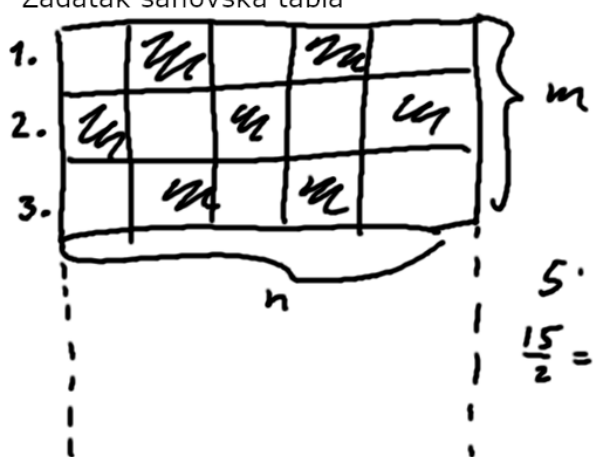


Zadatak sahovska tabla



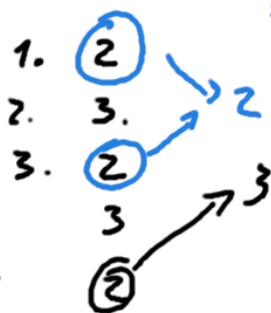
$$5 \cdot 3 = 15$$

$$\frac{15}{2} = 7$$

$$n = 8$$



1, 3, 5 ... redovi imaju $\lfloor \frac{n}{2} \rfloor$ crnih
 2, 4, 6 ... redovi imaju $n - \lfloor \frac{n}{2} \rfloor$ crnih
 neparnih redova: $\lceil \frac{m}{2} \rceil$
 parnih: $m - \lceil \frac{m}{2} \rceil$



zaokruženo na gore

$$\lceil \frac{m}{2} \rceil = \text{broj redova sa 2 crna}$$

$$\frac{3}{2} = 1.5 \quad \lceil 1.5 \rceil = 2$$

$$m - \lceil \frac{m}{2} \rceil$$

$$2 \text{ crna} = \lfloor \frac{5}{2} \rfloor = \lfloor 2.5 \rfloor = 2$$

$$\lfloor \frac{n}{2} \rfloor \quad \frac{8}{2} = 4$$

$$n = 5 \quad 1, 3, 5 \rightarrow 2 \quad n = 8 \quad 1, 3, 5 \dots \rightarrow 4$$

$$\left(\lfloor \frac{n}{2} \rfloor \cdot \lceil \frac{m}{2} \rceil + (n - \lfloor \frac{n}{2} \rfloor) \cdot (m - \lceil \frac{m}{2} \rceil) \right)$$



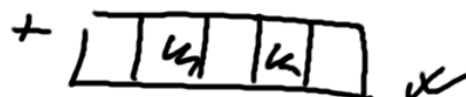
3 bela 2 crna

3 crna 2 bela

5 belih 5 crnih



crni = beli



$$\lfloor \frac{m \cdot n}{2} \rfloor \quad 5 \cdot 3 = 15 \quad \frac{15}{2} = 7.5$$

Grananje u C#

a, b - brojevi
 c - max od a i b

ako $a \geq b$

$c = a$

inače

$c = b$

if ($a \geq b$)

$c = a;$

else

$c = b$

Zadatom agr. stanje

temp:



ako je $t \leq 0$:

čvrsto

inače ako je $t < 100$

tečno

inače

gasovito

$t > 0$
 $t = 2$
 $t = 150$
if ($t \leq 0$) X
čvrsto

else if ($t < 100$) X
tečno

else

gasovito

Ciklusi u C#

$a = 1230000$

br. se završava sa 0 $\Leftrightarrow a$ je deljivo sa 10 ($a \% 10 == 0$)

$123000 = 1230000 / 10$

br_nula = 0

dok god je $a \% 10 == 0$

$a = a / 10;$

br_nula++;

isto kao
br_nula++;

Izdati sve cifre broja

$a = 1234$

4

3

2

1

Poslednja cifra:

$a \% 10;$

Uklonim poslednju:

$a /= 10;$

$a = 0$

while $a \% 10 == 0$ ✓ ✓ ✓

$a = a / 10;$

br_nula++;

$0 = 0 / 10$
 $\rightarrow a = 0$
br_nula++

$123 \rightarrow 12 \rightarrow 1 \rightarrow 0$

$a = 123$

$\rightarrow a \% 10 = 3$

$a = 123 / 10 = 12$

$\rightarrow a \% 10 = 2$

$a = a / 10 = 1$

$\rightarrow a \% 10 \rightarrow 1$

$a = a / 10 = 0$

Obrnute cifre + 32

$x = 1234$

$y = 0$

Obrnute cifre + 37

$$x = 1234$$

$$y = 0$$

don god je $x > 0$

$c = x \% 10$; Poslednja cifra od x

$x = x / 10$; odbacujem poslednju cifru

$y = y \cdot 10$; dodajemo jednu nulu na y

$y += c$; dodajem c na y

$$\begin{aligned} & \left\{ \begin{array}{l} y = y + 3 \\ y = y \cdot 10 \\ y = 4730 \end{array} \right. \\ & c = 4 \rightarrow 4734 \end{aligned}$$

$x = 7$ Kolatov problem

Ako je $x \% 2 == 0$

$$x = x / 2;$$

Inače

$$x = 3 \cdot x + 1;$$

$7 \rightarrow 22 \rightarrow 11 \rightarrow 34 \rightarrow 17 \rightarrow 52 \rightarrow 26 \rightarrow 13$

$\rightarrow 40 \rightarrow 20 \rightarrow 10 \rightarrow 5 \rightarrow 16 \rightarrow 8 \rightarrow 4 \rightarrow 2 \rightarrow 1$

$10 \rightarrow 5 \rightarrow 16 \rightarrow 8 \rightarrow 4 \rightarrow 2 \rightarrow 1$

$6 \rightarrow 3 \rightarrow 10 \rightarrow 5 \rightarrow 16 \rightarrow 8 \rightarrow 4 \rightarrow 2 \rightarrow 1$