

MATEMÁTICAS

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logic } Code
Code Exploitation } am
and
extra
point
for construction

Input = n count y Digits.

{ yes = 0
 while (n > 0) {

 yes++,
 yes + + ^ ,
 }

Count of Digits

~~Ex~~

input 5 3 2 4 , count the digits

Output = ?

Sol ->

~~Let~~

$n = 5324$

yes = 0

~~logi~~

loop \sim log^a
to occur
for i = 0 to j
if $n < 10$ then
 yes = yes + 1
 break
else
 n = n / 10

Initially $\rightarrow n = 5 \beta^2 \approx$
 $r_{es} = 0$

Iteration -1

$$n = 5 \beta^2$$
$$r_{es} = 1$$

Iteration -2

$$n = 5 \beta$$
$$r_{es} = 2$$

Iteration -3

$$n = 5$$
$$r_{es} = 3$$

Iteration -4

$$n = 0$$
$$r_{es} = 4$$

Iteration -5

$B_{res} \leftarrow 10^{69}$

→ What is modulus?
→ Is it Palindrome?

→ What is polymorphic numbers?

eg: 4 4 4 = 4 4 4 eg: 4 3 4 5 4 3 4
= 4 3 4 5 4 3 4

eg: 4 4 5 4 4
= 4 4 5 4 4

→ * logical code

input = 3
output = yes/no

{
int n;
int rev = 0;

→ Shift logic
while (n > 0) {

num = 573?
rev = 235
num = reversed

Output
if (n == rev) { output = yes }
else output = no ;

} / 10 - 1
}

j = rev * 10 + n % 10 ;
j = 0 ;

~~exit~~ 43531

initially:

$$n = 43531$$

$$\gamma_{ev} = 1$$

I_e-01

$$\gamma_{ev} = 0 + 4$$

$$n = 43533$$

I_e-02

$$\gamma_{ev} = 40 + 3$$

$$n = 435$$

I_e-03

$$\gamma_{ev} = 430 + 5$$

$$n = 435$$

I_e-04

$$\gamma_{ev} = 4350 + 3$$

$$n = 4$$

I_e-05

$$\gamma_{ev} = 43530$$

$$+ 9$$

$$n = 0$$

Iter - GL

loop will break.

factorial

* what is factorial?

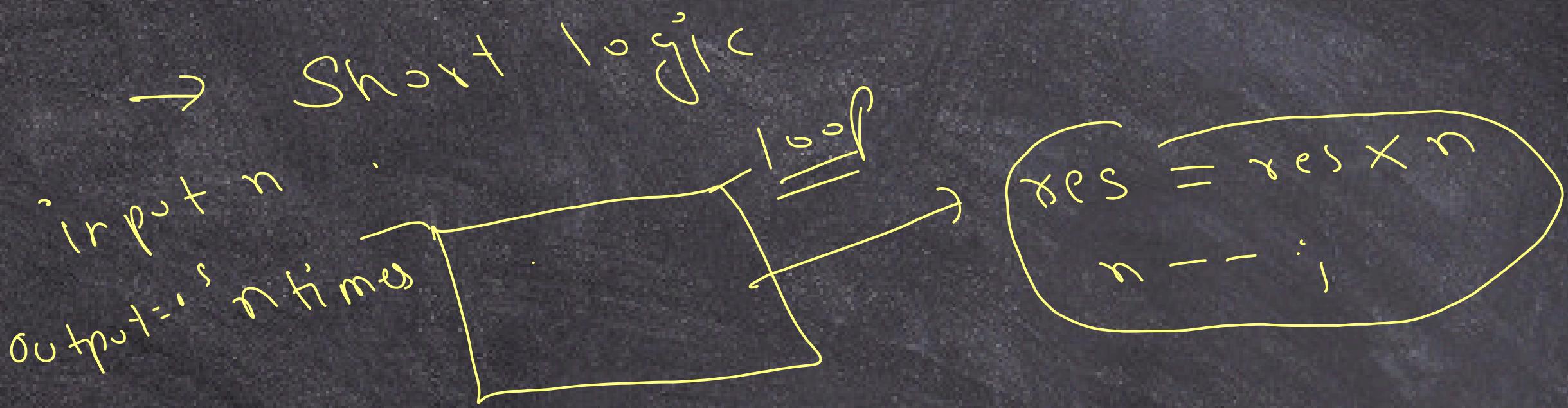
$!n = 1 \times 2 \times 3 \dots n$

*

Recursive.

Iterative

* Interactive



logic code

```
int n;  
int res = 1;  
while (n > 0) {
```

$$\gamma_{\text{es}} = \gamma_{\text{es}} \times n$$

$n = \dots;$

}

Output = γ_{es} ;

}

$$\Sigma n = 4$$

initially

$n = 1;$

$\gamma_{\text{es}} = 1;$

$$\Sigma t_c - 0.1$$

$$\gamma_{\text{es}} = 1 \times 4$$

$n = 3$

$$\Sigma t_c - 0.2$$

$$\gamma_{\text{es}} = 1 \times 3$$

$n = 2$

$$\Sigma - 0.3$$

$$\gamma_{\text{es}} = 4 \times 3 \times 2$$

$n = 1$

$$\Sigma t_c - 0.4$$

$$\gamma_{\text{es}} = (4 \times 3 \times 2) \times 1$$

$$n = 6$$

$$\Sigma t_c - 0.5$$

$B_{\gamma_{\text{es}}} 0.1;$