

Centro De Ciencias Básicas

Ingeniería en Sistemas Computacionales



Programación I

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Digitos - Luis David Flores Martínez			
num	cociente	aux	
0		1	
5	$5/10$	$1 + \text{digitos}(0)$	$1 + 1 = 2$
54	$54/10$	$1 + \text{digitos}(5)$	$1 + 1 = 2$
543	$543/10$	$1 + \text{digitos}(54)$	$2 + 1 = 3$
5432	$5432/10$	$1 + \text{digitos}(543)$	$3 + 1 = 4$
54321	$54321/10$	$1 + \text{digitos}(5432)$	$4 + 1 = 5 \leftarrow \text{Se retorna}$

Sumatoria - Luis David Flores Martínez			
Num	residuo	Cociente	aux
0			
4	4	0	$\text{residuo} + \text{sumatoria}(0)$ 4
42	2	4	$\text{residuo} + \text{sumatoria}(4)$ $4 + 2 = 6$
423	3	42	$\text{residuo} + \text{sumatoria}(42)$ $6 + 3 = 9$
4235	5	423	$\text{residuo} + \text{sumatoria}(423)$ $9 + 5 = 14$

↑  
Se retorna

Exponente - Luis David Flores Martínez

num	aux	cociente	aux
0	1		
1	$1^1 + \text{serie}(0)$	1	
2	$2^2 + \text{serie}(1)$	$1 + 1 = 5$	
3	$3^3 + \text{serie}(2)$	$5 + 27 = 32$	
4	$4^4 + \text{serie}(3)$	$32 + 256 = 288 \leftarrow \text{Se retorna}$	

Scribe

División - Luis David Flores Martínez

num	den	aux
0	2	
2	2	1 + division(0, 2) 1
4	2	1 + division(2, 2) 1 + 1 = 2
6	2	1 + division(4, 2) 2 + 1 = 3
8	2	1 + division(6, 2) 3 + 1 = 4
10	2	1 + division(8, 2) 4 + 1 = 5

num	den	aux
0	3	1 + division(0, 3) = 1
1	3	1 + division(0, 3) 1 + 1 = 2
4	3	1 + division(1, 3) 2 + 1 = 3
7	3	1 + division(4, 3) 3 + 1 = 4
10	3	1 + division(7, 3) 4 + 1 = 5
13	3	1 + division(10, 3) 5 + 1 = 6
16	3	1 + division(13, 3) 6 + 1 = 7