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Algoritmos 2 sabado

Tarea: realizar prueba de escritorio, contador de frecuencia y orden de magnitud

$N = 4$

lea $(N) --- 1$

$I = 1 --- 1$

$M(I \leq N)$ Haga $--- n+1$

$J = 1 --- n$

$M(J \leq N)$ Haga $--- n^2 + n$

$S = 0$ $K = 1 --- n^2$

$S = 0 --- n^2$

$M(K \leq N)$ Haga $--- n^3 + n^2$

$S = S + K - n^3$

$K = K + 1 - n^3$

END $--- n^3$

Escriba $S - n^2$

$J = J + 1 - n^2$

$I = \text{END} - n^2$

$I = I + 1 - n$

Escriba $N, S - 1$

END $--- n$

Escriba $N, S - 1$

CF: $4n^3 + 7n^2 + 5n + 4$

$n^3 + n^2 + n$

$O(n^3)$: Cubica

N	I	J	K	S
4	1	1	1	0
	2	2	2	1
	3	3	3	2
	4	4	4	3
	5	5	5	4
	1	1	0	
	2	2	1	
	3	3	2	
	4	4	3	
	5	5	4	
	1	1	0	
	2	2	1	
	3	3	2	
	4	4	3	
	5	5	4	
	1	1	0	
	2	2	1	
	3	3	2	
	4	4	3	
	5	5	4	
	1	1	0	
	2	2	1	
	3	3	2	
	4	4	3	
	5	5	4	

1	0
2	1
3	2
4	3
5	4
1	0
2	1
3	2
4	3
5	4
1	0
2	1
3	2
4	3
5	4
1	0
2	1
3	2
4	3
5	4

1	0
2	1
3	2
4	3
5	4
1	0
2	1
3	2
4	3
5	4
1	0
2	1
3	2
4	3
5	4
1	0
2	1
3	2
4	3
5	4

1	0
2	1
3	2
4	3
5	4
1	0
2	1
3	2
4	3
5	4