



Análisis de Algoritmos

“Simulación: Producto de dos mayores”

Tema 3, Ejercicio 3

3CM14

Humberto Alejandro Ortega Alcocer (2016630495)



Introducción

El algoritmo *Producto de Dos Mayores* nos presenta con una excelente oportunidad para entender mejor cómo debemos contabilizar las operaciones básicas para obtener el modelado matemático correspondiente a nuestra función de complejidad temporal para el mejor caso, cuando los dos números mayores están al inicio de nuestro arreglo de números, el peor caso, cuando los dos números mayores están al final del arreglo de números, y el caso medio, cuando no conocemos la ubicación de dichos números.

El análisis del problema fue realizado por el profesor en clase por lo que no se ahonda en detalles sobre su determinación. El objetivo de este ejercicio es implementar los tres casos, probar cada uno con 2500 y 5000 números (***n***) y obtener los resultados correspondientes para generar conclusiones a partir de la experimentación realizada.

La implementación fue realizada en ANSI C y eché mano de un par de librerías que hice para generar los casos de entrada así como una librería para contabilizar las operaciones realizadas. Esta última a fin de poder corroborar la ejecución de nuestro programa.

Para cada caso, realicé un archivo dónde se recibe dicha ***n***, se itera 1000 veces generando entradas particulares para cumplir caada uno de los casos y se finaliza generando archivos de *Valores Separados por Comas* (CSV por sus siglas en inglés) con los cuales, además de permitirnos realizar un análisis más detallado usando softwares de hojas de cálculo, vuelve nuestros datos un formato estándar de información para ser reutilizados a futuro como lo deseemos.

En el presente documento se anexan las secciones relevantes de código para nuestro análisis y, anexo al documento, se añaden los archivos con el código fuente de cada sección de nuestra simulación.

Producto de Dos Mayores

Para comenzar con este análisis, tenemos que recordar las funciones de complejidad temporal obtenidas previamente:

- **Mejor Caso:** sucede cuando los dos números mayores se encuentran al inicio del arreglo ya que el número de comparaciones y asignaciones son mínimas.

$$f_{t1}(n) = 2n - 1$$

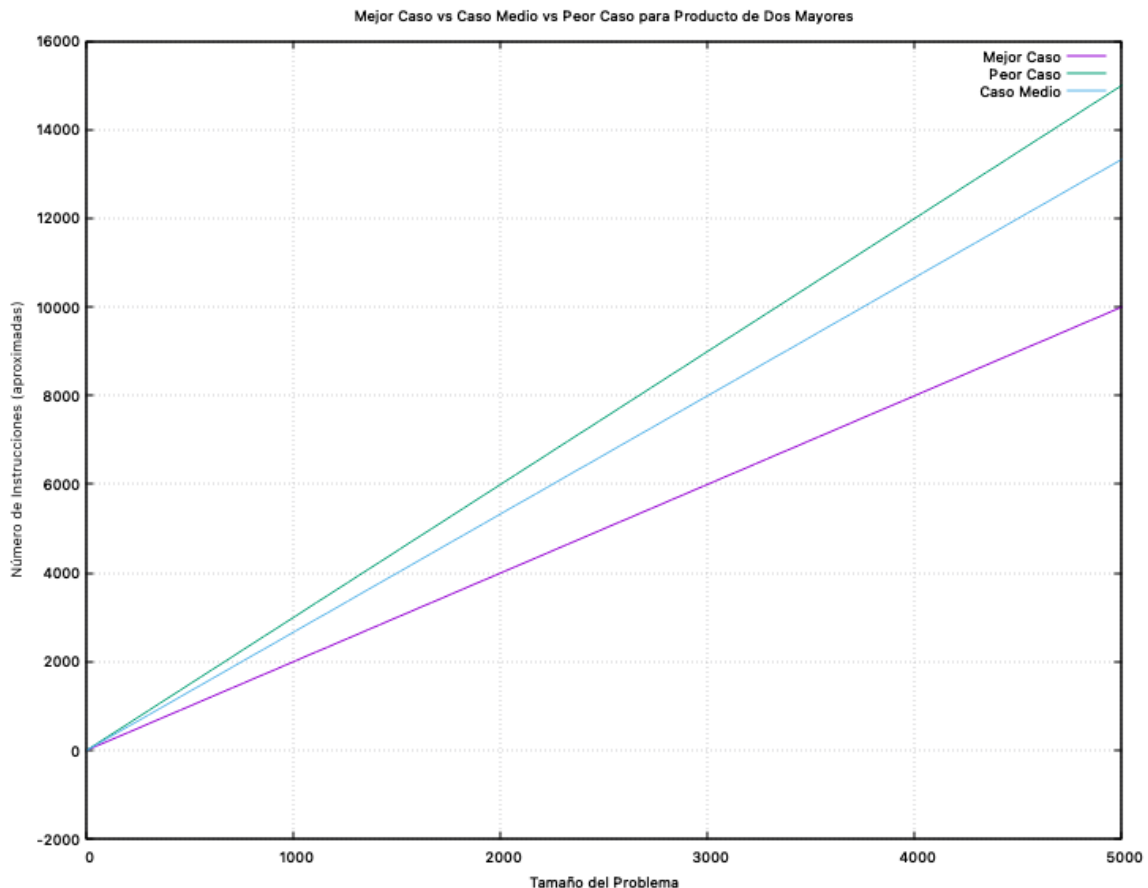
- **Peor Caso:** sucede cuando los dos números mayores se encuentran al final del arreglo, ya sea por coincidencia o porque dicho arreglo se encuentra ordenado ascendentemente.

$$f_{t2}(n) = 3n - 3$$

- **Caso Medio:** sucede cuando los dos números mayores se encuentran al inicio del arreglo ya que el número de comparaciones y asignaciones son mínimas.

$$f_{t3}(n) = \frac{8n-7}{3}$$

Si realizamos la graficación de estas tres funciones (utilizando *gnuplot*), veremos que nuestro mejor caso se comporta como un límite inferior, el peor caso es nuestro límite superior y el caso medio se encuentra entre estos dos.



Simulación

Para realizar la simulación, se genera la siguiente estructura de archivos:

- **producto_dos_mayores.h**: cabecera con las definiciones de los prototipos de funciones (2) para implementar el algoritmo de producto de dos mayores. Una utilizando una librería auxiliar para el conteo de las operaciones, y otra con el algoritmo sin ésta.
- **producto_dos_mayores.c**: implementación de la cabecera ya mencionada. Para la primer implementación (con la librería auxiliar de conteo de operaciones), se recibe una estructura de datos para contabilizar cada una de las operaciones que realiza el algoritmo. Para la segunda implementación, se realiza el algoritmo sin contabilizar nada.
- **mejor_caso.c**: archivo que incluye el código para recibir una ***n***, itera 1000 veces generando un arreglo de tamaño ***n*** ordenado donde los números mayores están siempre al inicio del mismo, se registran las operaciones realizadas y se genera una salida con los resultados en formato CSV.
- **peor_caso.c**: archivo que incluye el código para recibir una ***n***, itera 1000 veces generando un arreglo de tamaño ***n*** ordenado donde los números mayores están siempre al final del mismo, se registran las operaciones realizadas y se genera una salida con los resultados en formato CSV.
- **mejor_caso.c**: archivo que incluye el código para recibir una ***n***, itera 1000 veces generando un arreglo aleatorio, se registran las operaciones realizadas y se genera una salida con los resultados en formato CSV.
- **librerias/**: en esta carpeta se incluyen las librerías auxiliares desarrolladas para llevar a cabo el análisis.
 - **genera_casos.h**: en esta cabecera se definen los prototipos de las funciones para realizar la generación de los casos, son funciones genéricas como generar un arreglo con números aleatorios en cierto rango, generar un arreglo ordenado ascendentemente y demás.
 - **genera_casos.c**: en este archivo se realiza la implementación de la cabecera mencionada anteriormente.
 - **cont_operaciones.h**: en esta cabecera se define la estructura de datos que permite llevar la contabilización de las operaciones realizadas clasificándolas por tipo Asignación, Comparación y Aritméticas, a modo que los algoritmos puedan incrementar los contadores pertinentemente. A su vez, define los prototipos de funciones para inicializar dicha estructura y para calcular el total de operaciones realizadas en una misma estructura.
 - **cont_operaciones.c**: en este archivo se realiza la implementación de las funciones mencionadas en la cabecera anteriormente.
- **prueba-ejercicio.sh**: archivo *Bash* con las instrucciones para compilar los códigos fuentes, ejecutarlos con las entradas (***n***) correspondientes y generar los archivos CSV de salida para realizar el análisis posterior.

Como se menciona, cada uno de los casos generan sus resultados en formato CSV, esto por la facilidad de poder analizarlos posteriormente en algún software de hojas de cálculo. Las columnas que generan cada uno de estos programas son:

- **iteración:** correspondiente al número de iteración.
- **n:** la n proporcionada para la iteración en cuestión.
- **modelo:** corresponde al resultado de evaluar n en el modelo matemático obtenido durante el análisis del problema, esto para contrastar con los resultados.
- **op_asignaciones:** el número de asignaciones realizadas por el algoritmo en las condiciones dadas.
- **op_comparaciones:** el número de comparaciones lógicas realizadas por el algoritmo en las condiciones dadas.
- **op_aritméticas:** el número de operaciones aritméticas realizadas por el algoritmo en las condiciones dadas.
- **op_totales:** el número total de operaciones realizadas (la suma de las tres anteriores).

Así, tenemos una forma rápida de contrastar nuestros resultados con el modelado matemático y poder obtener una idea general de los factores que podrían estar afectando al comportamiento del algoritmo.

Los archivos resultantes, son los siguientes:

- **resultados_mejor_caso_2500.csv:** los resultados obtenidos al iterar 1000 veces el algoritmo proporcionando como entrada un arreglo de tamaño n (2500) en el mejor caso posible.
- **resultados_mejor_caso_5000.csv:** los resultados obtenidos al iterar 1000 veces el algoritmo proporcionando como entrada un arreglo de tamaño n (5000) en el mejor caso posible.
- **resultados_peor_caso_2500.csv:** los resultados obtenidos al iterar 1000 veces el algoritmo proporcionando como entrada un arreglo de tamaño n (2500) en el peor caso posible.
- **resultados_peor_caso_5000.csv:** los resultados obtenidos al iterar 1000 veces el algoritmo proporcionando como entrada un arreglo de tamaño n (5000) en el peor caso posible.
- **resultados_caso_medio_2500.csv:** los resultados obtenidos al iterar 1000 veces el algoritmo proporcionando como entrada un arreglo de tamaño n (2500) en el caso medio (números aleatorios).
- **resultados_caso_medio_5000.csv:** los resultados obtenidos al iterar 1000 veces el algoritmo proporcionando como entrada un arreglo de tamaño n (5000) en el caso medio (números aleatorios).

Resultados Obtenidos

Los resultados obtenidos para la simulación, como se mencionó anteriormente, se encuentran segregados por caso, así procederemos a presentar cada uno de los casos con un breve comentario de las observaciones que podemos realizar sobre los datos.

Mejor Caso

Para el mejor caso es simple visualizar que nuestro modelado matemático falla por una unidad. Esto puede atribuirse a un error en la contabilización del número de ejecuciones de la comparación del ciclo *while* pues, en el análisis, se emplean arreglos con inicio en 1, y en el programa se utilizan arreglos iniciando en 0, la condición final se modificó de un \leq a un $<$ y, debido a la cantidad de veces que se ejecuta, tendremos que el modelado debió ser únicamente:

$$f_{t1}(n) = 2n$$

Tabla de Resultados para $n = 2500$

iteración	n	modelo	op_asignaciones	op_comparaciones	op_aritmeticas	op_totales
0	2500	4999	5	4995	0	5000
1	2500	4999	5	4995	0	5000
2	2500	4999	5	4995	0	5000
3	2500	4999	5	4995	0	5000
4	2500	4999	5	4995	0	5000
5	2500	4999	5	4995	0	5000
6	2500	4999	5	4995	0	5000
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Tabla de Resultados para $n = 5000$

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998	5000	9999	5	9995	0	10000
999	5000	9999	5	9995	0	10000

Peor Caso

En el peor caso, nuestro modelado matemático se comporta satisfactoriamente, llevándonos a los resultados esperados y comprobando nuestro análisis:

$$f_{t2}(n) = 3n - 3$$

Tabla de Resultados para $n = 2500$

iteración	n	modelo	op_asignaciones	op_comparaciones	op_aritmeticas	op_totales
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2	2500	7497	4998	2499	0	7497
3	2500	7497	4998	2499	0	7497
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Tabla de resultados para $n = 5000$

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940	5000	14997	9998	4999	0	14997
941	5000	14997	9998	4999	0	14997
942	5000	14997	9998	4999	0	14997
943	5000	14997	9998	4999	0	14997
944	5000	14997	9998	4999	0	14997
945	5000	14997	9998	4999	0	14997
946	5000	14997	9998	4999	0	14997
947	5000	14997	9998	4999	0	14997
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950	5000	14997	9998	4999	0	14997
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956	5000	14997	9998	4999	0	14997
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958	5000	14997	9998	4999	0	14997
959	5000	14997	9998	4999	0	14997
960	5000	14997	9998	4999	0	14997
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962	5000	14997	9998	4999	0	14997
963	5000	14997	9998	4999	0	14997
964	5000	14997	9998	4999	0	14997
965	5000	14997	9998	4999	0	14997
966	5000	14997	9998	4999	0	14997
967	5000	14997	9998	4999	0	14997
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969	5000	14997	9998	4999	0	14997
970	5000	14997	9998	4999	0	14997
971	5000	14997	9998	4999	0	14997
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973	5000	14997	9998	4999	0	14997
974	5000	14997	9998	4999	0	14997
975	5000	14997	9998	4999	0	14997
976	5000	14997	9998	4999	0	14997
977	5000	14997	9998	4999	0	14997
978	5000	14997	9998	4999	0	14997
979	5000	14997	9998	4999	0	14997
980	5000	14997	9998	4999	0	14997
981	5000	14997	9998	4999	0	14997
982	5000	14997	9998	4999	0	14997
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985	5000	14997	9998	4999	0	14997
986	5000	14997	9998	4999	0	14997
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994	5000	14997	9998	4999	0	14997
995	5000	14997	9998	4999	0	14997

996	5000	14997	9998	4999	0	14997
997	5000	14997	9998	4999	0	14997
998	5000	14997	9998	4999	0	14997
999	5000	14997	9998	4999	0	14997

Caso Medio

En el caso medio es fácil observar que existe una diferencia bastante amplia (alrededor de dos mil operaciones en algunas situaciones) entre nuestro modelo y la simulación realizada. La explicación de estos resultados corresponde a que asumimos una probabilidad idéntica para cada uno de los casos, esto en el mundo real se comporta distinto y nos presenta con los resultados obtenidos. La función de complejidad temporal obtenida para este caso es:

$$f_{t3}(n) = \frac{8n-7}{3}$$

Tabla de Resultados para $n = 2500$

iteración	n	modelo	op_asignaciones	op_comparaciones	op_aritmeticas	op_totales
0	2500	6664	25	4983	0	5008
1	2500	6664	22	4984	0	5006
2	2500	6664	20	4984	0	5004
3	2500	6664	15	4988	0	5003
4	2500	6664	19	4987	0	5006
5	2500	6664	20	4984	0	5004
6	2500	6664	24	4983	0	5007
7	2500	6664	28	4976	0	5004
8	2500	6664	28	4980	0	5008
9	2500	6664	28	4979	0	5007
10	2500	6664	27	4978	0	5005
11	2500	6664	26	4982	0	5008
12	2500	6664	21	4984	0	5005
13	2500	6664	27	4979	0	5006
14	2500	6664	26	4981	0	5007
15	2500	6664	23	4984	0	5007
16	2500	6664	10	4990	0	5000
17	2500	6664	25	4983	0	5008
18	2500	6664	17	4987	0	5004
19	2500	6664	27	4982	0	5009
20	2500	6664	18	4987	0	5005

21	2500	6664	15	4987	0	5002
22	2500	6664	26	4982	0	5008
23	2500	6664	25	4983	0	5008
24	2500	6664	21	4985	0	5006
25	2500	6664	14	4987	0	5001
26	2500	6664	20	4985	0	5005
27	2500	6664	25	4982	0	5007
28	2500	6664	33	4978	0	5011
29	2500	6664	31	4978	0	5009
30	2500	6664	27	4982	0	5009
31	2500	6664	26	4980	0	5006
32	2500	6664	23	4982	0	5005
33	2500	6664	12	4991	0	5003
34	2500	6664	14	4990	0	5004
35	2500	6664	18	4987	0	5005
36	2500	6664	18	4987	0	5005
37	2500	6664	25	4982	0	5007
38	2500	6664	25	4982	0	5007
39	2500	6664	26	4982	0	5008
40	2500	6664	21	4984	0	5005
41	2500	6664	19	4987	0	5006
42	2500	6664	16	4986	0	5002
43	2500	6664	23	4983	0	5006
44	2500	6664	24	4982	0	5006
45	2500	6664	23	4984	0	5007
46	2500	6664	26	4980	0	5006
47	2500	6664	20	4986	0	5006
48	2500	6664	21	4983	0	5004
49	2500	6664	25	4981	0	5006
50	2500	6664	12	4991	0	5003
51	2500	6664	29	4981	0	5010
52	2500	6664	20	4985	0	5005
53	2500	6664	26	4980	0	5006
54	2500	6664	29	4979	0	5008
55	2500	6664	23	4984	0	5007
56	2500	6664	15	4987	0	5002
57	2500	6664	21	4984	0	5005
58	2500	6664	21	4986	0	5007
59	2500	6664	25	4982	0	5007
60	2500	6664	27	4979	0	5006

61	2500	6664	19	4986	0	5005
62	2500	6664	23	4983	0	5006
63	2500	6664	21	4984	0	5005
64	2500	6664	19	4984	0	5003
65	2500	6664	23	4983	0	5006
66	2500	6664	27	4979	0	5006
67	2500	6664	24	4982	0	5006
68	2500	6664	28	4980	0	5008
69	2500	6664	26	4982	0	5008
70	2500	6664	14	4987	0	5001
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72	2500	6664	27	4980	0	5007
73	2500	6664	16	4987	0	5003
74	2500	6664	15	4988	0	5003
75	2500	6664	26	4981	0	5007
76	2500	6664	24	4982	0	5006
77	2500	6664	31	4979	0	5010
78	2500	6664	28	4980	0	5008
79	2500	6664	33	4978	0	5011
80	2500	6664	17	4986	0	5003
81	2500	6664	18	4986	0	5004
82	2500	6664	21	4984	0	5005
83	2500	6664	26	4982	0	5008
84	2500	6664	12	4989	0	5001
85	2500	6664	14	4988	0	5002
86	2500	6664	25	4984	0	5009
87	2500	6664	13	4991	0	5004
88	2500	6664	26	4983	0	5009
89	2500	6664	14	4988	0	5002
90	2500	6664	22	4983	0	5005
91	2500	6664	23	4981	0	5004
92	2500	6664	22	4984	0	5006
93	2500	6664	16	4988	0	5004
94	2500	6664	19	4984	0	5003
95	2500	6664	24	4981	0	5005
96	2500	6664	26	4980	0	5006
97	2500	6664	17	4988	0	5005
98	2500	6664	22	4984	0	5006
99	2500	6664	23	4982	0	5005
100	2500	6664	25	4981	0	5006

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106	2500	6664	23	4983	0	5006
107	2500	6664	23	4982	0	5005
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121	2500	6664	30	4975	0	5005
122	2500	6664	24	4983	0	5007
123	2500	6664	16	4987	0	5003
124	2500	6664	13	4989	0	5002
125	2500	6664	12	4990	0	5002
126	2500	6664	23	4985	0	5008
127	2500	6664	17	4988	0	5005
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130	2500	6664	20	4985	0	5005
131	2500	6664	18	4986	0	5004
132	2500	6664	27	4980	0	5007
133	2500	6664	21	4984	0	5005
134	2500	6664	27	4982	0	5009
135	2500	6664	24	4980	0	5004
136	2500	6664	23	4982	0	5005
137	2500	6664	19	4986	0	5005
138	2500	6664	16	4987	0	5003
139	2500	6664	25	4984	0	5009
140	2500	6664	27	4981	0	5008

141	2500	6664	19	4983	0	5002
142	2500	6664	25	4983	0	5008
143	2500	6664	25	4983	0	5008
144	2500	6664	30	4980	0	5010
145	2500	6664	21	4984	0	5005
146	2500	6664	17	4986	0	5003
147	2500	6664	28	4980	0	5008
148	2500	6664	14	4988	0	5002
149	2500	6664	33	4975	0	5008
150	2500	6664	25	4983	0	5008
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153	2500	6664	27	4981	0	5008
154	2500	6664	25	4982	0	5007
155	2500	6664	12	4989	0	5001
156	2500	6664	26	4981	0	5007
157	2500	6664	21	4984	0	5005
158	2500	6664	20	4984	0	5004
159	2500	6664	29	4978	0	5007
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162	2500	6664	15	4988	0	5003
163	2500	6664	23	4981	0	5004
164	2500	6664	20	4986	0	5006
165	2500	6664	14	4989	0	5003
166	2500	6664	19	4985	0	5004
167	2500	6664	27	4982	0	5009
168	2500	6664	11	4991	0	5002
169	2500	6664	17	4986	0	5003
170	2500	6664	31	4977	0	5008
171	2500	6664	22	4982	0	5004
172	2500	6664	19	4986	0	5005
173	2500	6664	19	4987	0	5006
174	2500	6664	26	4981	0	5007
175	2500	6664	37	4976	0	5013
176	2500	6664	20	4985	0	5005
177	2500	6664	21	4982	0	5003
178	2500	6664	19	4984	0	5003
179	2500	6664	25	4983	0	5008
180	2500	6664	31	4978	0	5009

181	2500	6664	19	4985	0	5004
182	2500	6664	15	4987	0	5002
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185	2500	6664	21	4984	0	5005
186	2500	6664	18	4985	0	5003
187	2500	6664	18	4985	0	5003
188	2500	6664	29	4979	0	5008
189	2500	6664	21	4983	0	5004
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193	2500	6664	29	4979	0	5008
194	2500	6664	13	4989	0	5002
195	2500	6664	25	4981	0	5006
196	2500	6664	16	4988	0	5004
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198	2500	6664	20	4986	0	5006
199	2500	6664	14	4988	0	5002
200	2500	6664	20	4983	0	5003
201	2500	6664	17	4985	0	5002
202	2500	6664	22	4985	0	5007
203	2500	6664	27	4980	0	5007
204	2500	6664	20	4985	0	5005
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208	2500	6664	19	4985	0	5004
209	2500	6664	26	4982	0	5008
210	2500	6664	13	4990	0	5003
211	2500	6664	15	4987	0	5002
212	2500	6664	28	4981	0	5009
213	2500	6664	22	4984	0	5006
214	2500	6664	25	4981	0	5006
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216	2500	6664	20	4985	0	5005
217	2500	6664	21	4986	0	5007
218	2500	6664	37	4976	0	5013
219	2500	6664	21	4985	0	5006
220	2500	6664	26	4981	0	5007

221	2500	6664	22	4983	0	5005
222	2500	6664	18	4987	0	5005
223	2500	6664	21	4983	0	5004
224	2500	6664	29	4980	0	5009
225	2500	6664	12	4990	0	5002
226	2500	6664	20	4984	0	5004
227	2500	6664	26	4982	0	5008
228	2500	6664	22	4982	0	5004
229	2500	6664	11	4990	0	5001
230	2500	6664	25	4982	0	5007
231	2500	6664	22	4983	0	5005
232	2500	6664	32	4977	0	5009
233	2500	6664	20	4985	0	5005
234	2500	6664	29	4979	0	5008
235	2500	6664	26	4982	0	5008
236	2500	6664	33	4977	0	5010
237	2500	6664	19	4986	0	5005
238	2500	6664	17	4985	0	5002
239	2500	6664	26	4981	0	5007
240	2500	6664	19	4984	0	5003
241	2500	6664	19	4985	0	5004
242	2500	6664	22	4985	0	5007
243	2500	6664	32	4976	0	5008
244	2500	6664	10	4991	0	5001
245	2500	6664	25	4981	0	5006
246	2500	6664	19	4984	0	5003
247	2500	6664	27	4982	0	5009
248	2500	6664	23	4984	0	5007
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256	2500	6664	22	4983	0	5005
257	2500	6664	22	4985	0	5007
258	2500	6664	18	4984	0	5002
259	2500	6664	16	4989	0	5005
260	2500	6664	20	4985	0	5005

261	2500	6664	35	4975	0	5010
262	2500	6664	25	4980	0	5005
263	2500	6664	18	4986	0	5004
264	2500	6664	20	4984	0	5004
265	2500	6664	24	4983	0	5007
266	2500	6664	25	4982	0	5007
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272	2500	6664	17	4986	0	5003
273	2500	6664	23	4984	0	5007
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280	2500	6664	23	4982	0	5005
281	2500	6664	29	4979	0	5008
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283	2500	6664	16	4987	0	5003
284	2500	6664	19	4986	0	5005
285	2500	6664	31	4977	0	5008
286	2500	6664	28	4980	0	5008
287	2500	6664	23	4982	0	5005
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291	2500	6664	26	4983	0	5009
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293	2500	6664	17	4987	0	5004
294	2500	6664	28	4979	0	5007
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296	2500	6664	21	4985	0	5006
297	2500	6664	31	4977	0	5008
298	2500	6664	19	4984	0	5003
299	2500	6664	17	4987	0	5004
300	2500	6664	17	4988	0	5005

301	2500	6664	28	4981	0	5009
302	2500	6664	24	4984	0	5008
303	2500	6664	24	4982	0	5006
304	2500	6664	21	4986	0	5007
305	2500	6664	26	4981	0	5007
306	2500	6664	12	4989	0	5001
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308	2500	6664	31	4977	0	5008
309	2500	6664	28	4980	0	5008
310	2500	6664	20	4986	0	5006
311	2500	6664	24	4983	0	5007
312	2500	6664	38	4974	0	5012
313	2500	6664	17	4987	0	5004
314	2500	6664	15	4987	0	5002
315	2500	6664	23	4983	0	5006
316	2500	6664	14	4987	0	5001
317	2500	6664	29	4980	0	5009
318	2500	6664	17	4987	0	5004
319	2500	6664	29	4979	0	5008
320	2500	6664	20	4984	0	5004
321	2500	6664	38	4974	0	5012
322	2500	6664	21	4986	0	5007
323	2500	6664	27	4982	0	5009
324	2500	6664	17	4987	0	5004
325	2500	6664	26	4981	0	5007
326	2500	6664	35	4978	0	5013
327	2500	6664	32	4978	0	5010
328	2500	6664	20	4985	0	5005
329	2500	6664	25	4982	0	5007
330	2500	6664	26	4981	0	5007
331	2500	6664	23	4985	0	5008
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336	2500	6664	17	4985	0	5002
337	2500	6664	27	4980	0	5007
338	2500	6664	29	4979	0	5008
339	2500	6664	19	4987	0	5006
340	2500	6664	20	4985	0	5005

341	2500	6664	27	4979	0	5006
342	2500	6664	22	4983	0	5005
343	2500	6664	19	4987	0	5006
344	2500	6664	26	4981	0	5007
345	2500	6664	24	4982	0	5006
346	2500	6664	14	4989	0	5003
347	2500	6664	22	4983	0	5005
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350	2500	6664	25	4983	0	5008
351	2500	6664	24	4980	0	5004
352	2500	6664	21	4984	0	5005
353	2500	6664	27	4980	0	5007
354	2500	6664	17	4986	0	5003
355	2500	6664	17	4986	0	5003
356	2500	6664	25	4979	0	5004
357	2500	6664	12	4990	0	5002
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364	2500	6664	27	4981	0	5008
365	2500	6664	21	4984	0	5005
366	2500	6664	23	4983	0	5006
367	2500	6664	17	4985	0	5002
368	2500	6664	23	4983	0	5006
369	2500	6664	16	4987	0	5003
370	2500	6664	17	4987	0	5004
371	2500	6664	22	4982	0	5004
372	2500	6664	28	4981	0	5009
373	2500	6664	23	4983	0	5006
374	2500	6664	18	4986	0	5004
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827	2500	6664	26	4982	0	5008
828	2500	6664	23	4981	0	5004
829	2500	6664	23	4985	0	5008
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832	2500	6664	24	4984	0	5008
833	2500	6664	25	4982	0	5007
834	2500	6664	20	4983	0	5003
835	2500	6664	14	4988	0	5002
836	2500	6664	18	4985	0	5003
837	2500	6664	27	4982	0	5009
838	2500	6664	27	4981	0	5008
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842	2500	6664	25	4982	0	5007
843	2500	6664	19	4984	0	5003
844	2500	6664	21	4983	0	5004
845	2500	6664	26	4981	0	5007
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847	2500	6664	37	4972	0	5009
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849	2500	6664	24	4981	0	5005
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857	2500	6664	16	4987	0	5003
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862	2500	6664	15	4988	0	5003
863	2500	6664	27	4982	0	5009
864	2500	6664	25	4980	0	5005
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869	2500	6664	10	4990	0	5000
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871	2500	6664	19	4985	0	5004
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889	2500	6664	19	4987	0	5006
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898	2500	6664	31	4976	0	5007
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900	2500	6664	29	4980	0	5009

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912	2500	6664	11	4992	0	5003
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929	2500	6664	20	4985	0	5005
930	2500	6664	29	4980	0	5009
931	2500	6664	27	4981	0	5008
932	2500	6664	19	4986	0	5005
933	2500	6664	27	4982	0	5009
934	2500	6664	28	4978	0	5006
935	2500	6664	17	4988	0	5005
936	2500	6664	25	4984	0	5009
937	2500	6664	25	4982	0	5007
938	2500	6664	29	4979	0	5008
939	2500	6664	14	4988	0	5002
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945	2500	6664	28	4981	0	5009
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949	2500	6664	23	4983	0	5006
950	2500	6664	16	4990	0	5006
951	2500	6664	26	4980	0	5006
952	2500	6664	19	4984	0	5003
953	2500	6664	20	4984	0	5004
954	2500	6664	19	4985	0	5004
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958	2500	6664	27	4980	0	5007
959	2500	6664	27	4980	0	5007
960	2500	6664	16	4988	0	5004
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962	2500	6664	24	4984	0	5008
963	2500	6664	37	4975	0	5012
964	2500	6664	17	4987	0	5004
965	2500	6664	24	4983	0	5007
966	2500	6664	19	4985	0	5004
967	2500	6664	23	4983	0	5006
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969	2500	6664	18	4987	0	5005
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972	2500	6664	21	4984	0	5005
973	2500	6664	17	4986	0	5003
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980	2500	6664	22	4983	0	5005

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984	2500	6664	29	4982	0	5011
985	2500	6664	24	4983	0	5007
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988	2500	6664	27	4981	0	5008
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990	2500	6664	9	4992	0	5001
991	2500	6664	20	4985	0	5005
992	2500	6664	19	4985	0	5004
993	2500	6664	18	4986	0	5004
994	2500	6664	21	4983	0	5004
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996	2500	6664	23	4983	0	5006
997	2500	6664	15	4989	0	5004
998	2500	6664	23	4983	0	5006
999	2500	6664	16	4987	0	5003

Tabla de Resultados para $n = 5000$

iteración	n	modelo	op_asignaciones	op_comparaciones	op_aritmeticas	op_totales
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1	5000	13331	19	9986	0	10005
2	5000	13331	22	9984	0	10006
3	5000	13331	29	9980	0	10009
4	5000	13331	26	9982	0	10008
5	5000	13331	39	9973	0	10012
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7	5000	13331	22	9982	0	10004
8	5000	13331	21	9983	0	10004
9	5000	13331	30	9980	0	10010
10	5000	13331	24	9983	0	10007
11	5000	13331	32	9979	0	10011
12	5000	13331	18	9987	0	10005
13	5000	13331	22	9983	0	10005
14	5000	13331	17	9986	0	10003

15	5000	13331	18	9985	0	10003
16	5000	13331	23	9982	0	10005
17	5000	13331	26	9979	0	10005
18	5000	13331	25	9981	0	10006
19	5000	13331	15	9988	0	10003
20	5000	13331	28	9977	0	10005
21	5000	13331	25	9981	0	10006
22	5000	13331	18	9984	0	10002
23	5000	13331	17	9987	0	10004
24	5000	13331	24	9982	0	10006
25	5000	13331	15	9988	0	10003
26	5000	13331	16	9986	0	10002
27	5000	13331	24	9982	0	10006
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29	5000	13331	12	9991	0	10003
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31	5000	13331	22	9984	0	10006
32	5000	13331	21	9984	0	10005
33	5000	13331	29	9981	0	10010
34	5000	13331	33	9975	0	10008
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74	5000	13331	25	9983	0	10008
75	5000	13331	34	9977	0	10011
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77	5000	13331	13	9988	0	10001
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171	5000	13331	20	9984	0	10004
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252	5000	13331	22	9982	0	10004
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997	5000	13331	27	9980	0	10007
998	5000	13331	28	9980	0	10008
999	5000	13331	18	9985	0	10003

Conclusión

A primera vista, tanto el *peor caso* como el *mejor caso* obtuvieron los resultados esperados (variaciones mínimas atribuibles a detalles de implementación o a una contabilización extra no considerada). Sin embargo, el caso medio es el que nos presenta con un verdadero resultado *aleatorizado* dónde podemos fácilmente identificar el margen de error de nuestro modelo matemático para la función de complejidad temporal.

El desarrollo de este ejercicio me permitió, de primera instancia, generar las herramientas necesarias para poder llevar a cabo el análisis correspondiente, así como el reto de generar un ambiente de pruebas reproducible para llegar a datos congruentes con nuestro análisis.

Si bien, los programas son simples en implementación y diseño, los resultados nos permiten ver claramente la diferencia entre análisis y realidad. Con esto, sabemos que siempre que se quiera llegar a resultados sólidos debemos realizar el análisis matemático, pero también las pruebas empíricas correspondientes para verificar nuestros resultados.

- Humberto Alejandro Ortega Alcocer.