

ANÁLISIS DEL RETO

Harold Esteban Piñeros Monroy, 202316402, h.pineros@uniandes.edu.co

Carlos Alberto Poveda Riaño, 202315546, ca.povedar1@uniandes.edu.co

Luis Sebastián Contreras Díaz, 202311819, ls.contreras@uniandes.edu.co

Requerimiento 1

Descripción

```
def getDatesByRange(analyzer, initialDate, finalDate):
    """
    Retorna el numero de crímenes en un rango de fechas.
    """

    final = lt.newList('SINGLE_LINKED')
    dic = {}
    initialDate = datetime.datetime.strptime(initialDate, '%Y-%m-%dT%H:%M')
    finalDate = datetime.datetime.strptime(finalDate, '%Y-%m-%dT%H:%M')
    lst = om.values(analyzer, initialDate, finalDate)

    totearthquakes = lt.size(lst)

    events = 0
    for lstdate in lt.iterator(lst):
        for j in lt.iterator(lstdate):

            time = j['time']

            events += 1
            dic[time] = {
                'time':time,
                'events':1,
                'details':j
            }
            lt.addFirst(final,dic[time])

    return totearthquakes, final, events
```

Este requerimiento se encarga de ver los eventos sísmicos mundiales ocurridos durante un intervalo de fechas específico.

Entrada	Fecha inicial del intervalo (en formato "%Y-%m-%dT%H:%M"). • Fecha final del intervalo (en formato "%Y-%m-%dT%H:%M"). • La significancia mínima del evento (sig).
Salidas	El número total de eventos sísmicos ocurridos durante las fechas indicadas. • Todos los eventos ocurridos en el intervalo ordenados cronológicamente desde el más reciente al más antiguo.
Implementado (Sí/No)	Si. Implementado por Luis Sebastián Contreras

Análisis de complejidad

Análisis de complejidad de cada uno de los pasos del algoritmo

Pasos	Complejidad
Inicialización de estructuras de datos y conversiones de fechas:	$O(1)$
Obtención de elementos según rango de fechas:	$O(\log(M))$
Ciclo anidado for para recorrer la lista de valores	$O(M*M)$
Creación y adición de elementos a una lista	$O(1)$
TOTAL	$O(M*M)$

Pruebas Realizadas

Las pruebas realizadas fueron realizadas en una maquina con las siguientes especificaciones. Los datos de entrada fueron fecha inicial 1999-03-21T05:00 y fecha final 2004-10-23T17:30.

Procesadores	12th Gen Intel(R) Core(TM) i5-1235U
Memoria RAM	16 GB
Sistema Operativo	Windows 11 Home

Entrada	Tiempo (ms)
small	12.81
5 pct	145.29
10 pct	207.78
20 pct	254.37
30 pct	805.64
50 pct	1454.28
80 pct	4837.21
large	12750.25

Tablas de datos

Las tablas con la recopilación de datos de las pruebas.

Muestra	Salida	Tiempo

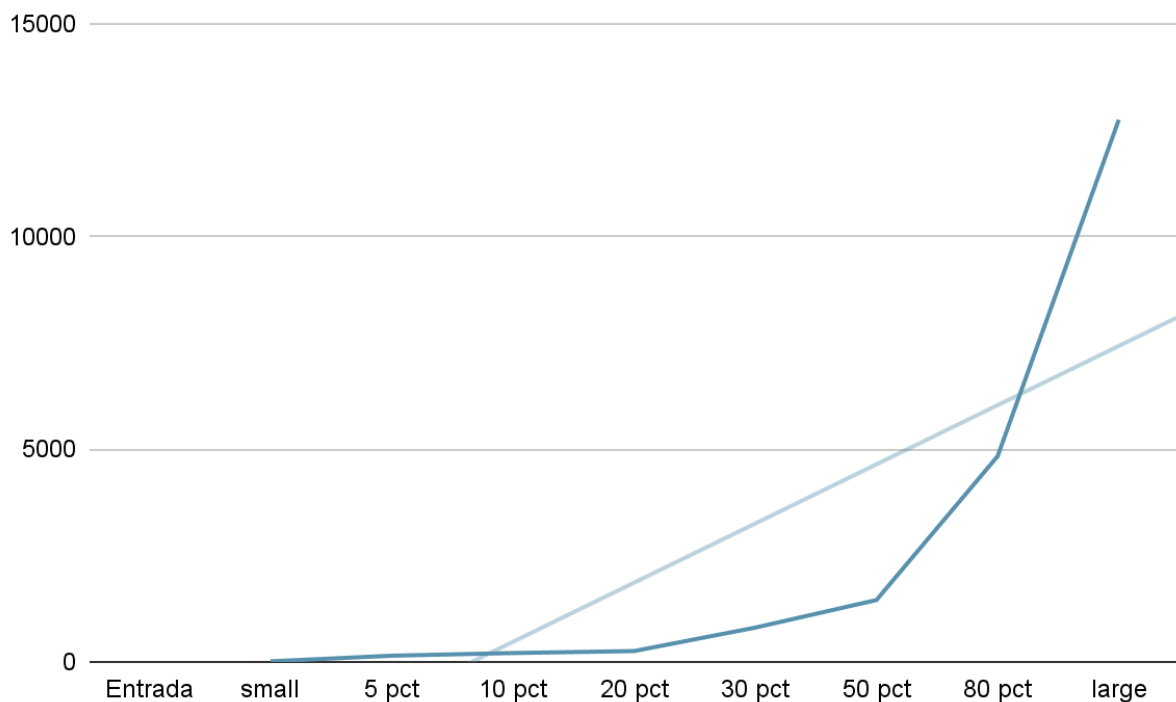
small	total de eventos: 912														12.81		
	time		events	details													
	2004-10-23T08:59:37.350000Z		1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type		code	
				5.7	138.866	37.268	10.0	500	77.0	M 5.7 - 6 km ESE of Ojiya, Japan		6.481	mb	earthquake		p000360w	
	2004-10-22T04:54:43.020000Z		1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type		code	
				4.5	147.013	14.503	35.0	312	9.0	M 4.5 - 156 km ESE of Saipan, Northern Mariana Islands			mb	earthquake		p000365ty	
	2004-10-20T11:35:15.304000Z		1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type		code	
			3.8	-118.6301	38.0408	6.1	222	40.0	M 3.8 - 27 km NW of Benton, California			ml	earthquake	00117550			
5 pct	1999-03-24T18:30:44.410000Z		1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code	145.29	
				4.6	-173.323	-17.017	59.0	326		M 4.6 - 127 km SSE of Hihifo, Tonga			mb	earthquake	p000953q		
	1999-03-23T15:31:07.430000Z		1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code		
				3.2	33.685	34.442	15.0	158		M 3.2 - 42 km S of Perivolia, Cyprus			ml	earthquake	p000951g		
	1999-03-22T09:56:16.680000Z		1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code		
				4.1	76.94	29.257	207.6	259		M 4.1 - 7 km NW of Samalkha, India			mb	earthquake	p000942j		
	Unreviewed																
10 pct	2023-08-14 15:55:11.313000		1	mag	long	lat	depth	sig	gap	nst	title	cdi	mmi	magType	type	code	207.78
				4.9	-75.5598	7.3583	54.24	371	25.0	182.0	M 4.9 - 19 km NW of Valdivia, Colombia	3.4		mb	earthquake	6000kcn	
	2023-08-06 20:22:04.737000		1	mag	long	lat	depth	sig	gap	nst	title	cdi	mmi	magType	type	code	
				4.8	-139.9737	61.3461	2.963	357	44.0	140.0	M 4.8 - 157 km E of McCarthy, Alaska	3.4	6.127	mur	earthquake	6000kyos	
	2023-08-01 15:06:52.523000		1	mag	long	lat	depth	sig	gap	nst	title	cdi	mmi	magType	type	code	
				4.8	32.6486	38.0881	12.017	358	40.0	140.0	M 4.8 - 20 km NNE of Konya, Turkey	4.8		mur	earthquake	6000kcn	
	2023-05-14 08:11:57.370000		1	mag	long	lat	depth	sig	gap	nst	title	cdi	mmi	magType	type	code	
			5.4	139.3714	33.3767	18.623	409	38.0	136.0	M 5.4 - 149 km SSE of Shinoda, Japan	1.0	4.269	mw	earthquake	6000kcta		
2023-05-11 06:22:29.651000		1	mag	long	lat	depth	sig	gap	nst	title	cdi	mmi	magType	type	code		
			4.7	172.3208	-14.762	605.065	340	43.0	54.0	M 4.7 - Vanuatu region			mb	earthquake	6000kth		
2023-05-10 19:16:42.510000		1	mag	long	lat	depth	sig	gap	nst	title	cdi	mmi	magType	type	code		
			5.2	140.0913	35.1171	39.454	479	32.0	154.0	M 5.2 - 2 km NW of Kamogawa, Japan	5.6		mur	earthquake	6000kyd		

20 pct	<table><tr><th>time</th><th>events</th><th colspan="11">details</th></tr><tr><td>2004-10-23T16:35:43.990000Z</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>nst</td><td>title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>4.3</td><td>-101.882</td><td>18.702</td><td>78.2</td><td>284</td><td>88.0</td><td>M 4.3 - 18 km NNE of Las Cañas, Mexico</td><td></td><td></td><td>mb</td><td>earthquake</td><td>p0003d5</td></tr><tr><td>2004-10-23T15:49:51.810000Z</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>nst</td><td>title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>4.3</td><td>167.124</td><td>-12.796</td><td>99.1</td><td>284</td><td>15.0</td><td>M 4.3 - 128 km NNW of Sola, Vanuatu</td><td></td><td></td><td>mb</td><td>earthquake</td><td>p0003d6</td></tr><tr><td>2004-10-23T13:28:18.500000Z</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>nst</td><td>title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>4.3</td><td>138.758</td><td>37.27</td><td>10.0</td><td>284</td><td>16.0</td><td>M 4.3 - 4 km SW of Ojiya, Japan</td><td></td><td></td><td>mb</td><td>earthquake</td><td>p0003d9</td></tr><tr><td></td><td>1999-03-21T14:39:52.730000Z</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>nst</td><td>title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>3.5</td><td>-72.017</td><td>-33.226</td><td>14.5</td><td>188</td><td></td><td>M 3.5 - 41 km WSW of Valparaíso, Chile</td><td></td><td></td><td>mb</td><td>earthquake</td><td>p00094b</td></tr><tr><td></td><td>1999-03-21T12:30:21.900000Z</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>nst</td><td>title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>3.3</td><td>20.72</td><td>37.35</td><td>5.0</td><td>168</td><td></td><td>M 3.3 - 42 km SSW of Lithakia, Greece</td><td></td><td></td><td>mb</td><td>earthquake</td><td>p00094d</td></tr><tr><td></td><td>1999-03-21T05:15:14.090000Z</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>nst</td><td>title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>4.1</td><td>-27.845</td><td>-55.822</td><td>100.0</td><td>259</td><td></td><td>M 4.1 - South Sandwich Islands region</td><td></td><td></td><td>mb</td><td>earthquake</td><td>p00094m</td></tr><tr><td colspan="15">Bienvenido</td></tr></table>	time	events	details											2004-10-23T16:35:43.990000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			4.3	-101.882	18.702	78.2	284	88.0	M 4.3 - 18 km NNE of Las Cañas, Mexico			mb	earthquake	p0003d5	2004-10-23T15:49:51.810000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			4.3	167.124	-12.796	99.1	284	15.0	M 4.3 - 128 km NNW of Sola, Vanuatu			mb	earthquake	p0003d6	2004-10-23T13:28:18.500000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			4.3	138.758	37.27	10.0	284	16.0	M 4.3 - 4 km SW of Ojiya, Japan			mb	earthquake	p0003d9		1999-03-21T14:39:52.730000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			3.5	-72.017	-33.226	14.5	188		M 3.5 - 41 km WSW of Valparaíso, Chile			mb	earthquake	p00094b		1999-03-21T12:30:21.900000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			3.3	20.72	37.35	5.0	168		M 3.3 - 42 km SSW of Lithakia, Greece			mb	earthquake	p00094d		1999-03-21T05:15:14.090000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			4.1	-27.845	-55.822	100.0	259		M 4.1 - South Sandwich Islands region			mb	earthquake	p00094m	Bienvenido															254.37
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Bienvenido																																																																																																																																																																																																									
50 pct	<table><tr><th>time</th><th>events</th><th colspan="11">details</th></tr><tr><td>2004-10-23T17:27:08.200000Z</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>nst</td><td>title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>3.6</td><td>-71.709</td><td>-31.538</td><td>26.3</td><td>199</td><td>7.0</td><td>M 3.6 - 52 km NNW of Illapel, Chile</td><td></td><td></td><td>ml</td><td>earthquake</td><td>p0003d9</td></tr><tr><td>2004-10-23T16:35:43.990000Z</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>nst</td><td>title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>4.3</td><td>-101.882</td><td>18.702</td><td>78.2</td><td>284</td><td>88.0</td><td>M 4.3 - 18 km NNE of Las Cañas, Mexico</td><td></td><td></td><td>mb</td><td>earthquake</td><td>p0003d5</td></tr><tr><td>2004-10-23T16:00:46.290000Z</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>nst</td><td>title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>3.0</td><td>16.2</td><td>51.561</td><td>5.0</td><td>138</td><td>16.0</td><td>M 3.0 - 4 km SSE of Grzybowice, Poland</td><td></td><td></td><td>ml</td><td>earthquake</td><td>p0003d2</td></tr><tr><td></td><td>1999-03-21T09:16:19.960000Z</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>nst</td><td>title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>3.5</td><td>-167.732</td><td>52.583</td><td>33.0</td><td>188</td><td></td><td>M 3.5 - 85 km ESE of Nikolski, Alaska</td><td></td><td></td><td>mb</td><td>earthquake</td><td>p00094v</td></tr><tr><td></td><td>1999-03-21T09:02:48.190000Z</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>nst</td><td>title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>4.6</td><td>179.801</td><td>-25.855</td><td>600.0</td><td>326</td><td></td><td>M 4.6 - south of the Fiji Islands</td><td></td><td></td><td>mb</td><td>earthquake</td><td>p00094v</td></tr><tr><td></td><td>1999-03-21T05:15:14.090000Z</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>nst</td><td>title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>4.1</td><td>-27.845</td><td>-55.822</td><td>100.0</td><td>259</td><td></td><td>M 4.1 - South Sandwich Islands region</td><td></td><td></td><td>mb</td><td>earthquake</td><td>p00094m</td></tr><tr><td colspan="15">Bienvenido</td></tr></table>	time	events	details											2004-10-23T17:27:08.200000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			3.6	-71.709	-31.538	26.3	199	7.0	M 3.6 - 52 km NNW of Illapel, Chile			ml	earthquake	p0003d9	2004-10-23T16:35:43.990000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			4.3	-101.882	18.702	78.2	284	88.0	M 4.3 - 18 km NNE of Las Cañas, Mexico			mb	earthquake	p0003d5	2004-10-23T16:00:46.290000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			3.0	16.2	51.561	5.0	138	16.0	M 3.0 - 4 km SSE of Grzybowice, Poland			ml	earthquake	p0003d2		1999-03-21T09:16:19.960000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			3.5	-167.732	52.583	33.0	188		M 3.5 - 85 km ESE of Nikolski, Alaska			mb	earthquake	p00094v		1999-03-21T09:02:48.190000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			4.6	179.801	-25.855	600.0	326		M 4.6 - south of the Fiji Islands			mb	earthquake	p00094v		1999-03-21T05:15:14.090000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			4.1	-27.845	-55.822	100.0	259		M 4.1 - South Sandwich Islands region			mb	earthquake	p00094m	Bienvenido															1454.28
	time	events	details																																																																																																																																																																																																						
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Bienvenido																																																																																																																																																																																																									

80 pct	total de eventos: 74521																4837.21
	time		events		details												
	2004-10-23T17:27:08.200000Z		1														
	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code			
	3.6	-71.789	-31.538	26.3	199	7.0	M 3.6 - 52 km WNW of Illapel, Chile					ml	earthquake	p0003d69			
	2004-10-23T16:35:43.990000Z		1														
	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code			
	4.3	-101.882	18.702	78.2	284	88.0	M 4.3 - 18 km NNE of Las Cañas, Mexico					mb	earthquake	p0003d65			
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	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code			
3.6	32.669	34.443	35.0	199	6.0	M 3.6 - 25 km S of Pissodri, Cyprus					ml	earthquake	p0003d64				
1999-03-21T09:16:19.960000Z		1															
mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code				
3.5	-167.732	52.583	33.0	188		M 3.5 - 85 km ESE of Nikolski, Alaska					mb	earthquake	p00094vt				
1999-03-21T09:02:48.190000Z		1															
mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code				
4.6	179.801	-25.055	600.0	326		M 4.6 - south of the Fiji Islands					mb	earthquake	p00094vs				
1999-03-21T05:15:14.090000Z		1															
mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code				
4.1	-27.845	-55.822	100.0	259		M 4.1 - South Sandwich Islands region					mb	earthquake	p00094vm				
Bienvenido																	

large																	12750.25
	time		events		details												
	2004-10-23T17:27:08.200000Z		1														
	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code			
	3.6	-71.789	-31.538	26.3	199	7.0	M 3.6 - 52 km WNW of Illapel, Chile					ml	earthquake	p0003d69			
	2004-10-23T17:15:35.810000Z		1														
	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code			
	4.1	-179.696	-21.73	635.8	259	19.0	M 4.1 - Fiji region					mb	earthquake	p0003d68			
	2004-10-23T16:35:43.990000Z		1														
	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code			
4.3	-101.882	18.702	78.2	284	88.0	M 4.3 - 18 km NNE of Las Cañas, Mexico					mb	earthquake	p0003d65				
1999-03-21T09:02:48.190000Z		1															
mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code				
4.6	179.801	-25.055	600.0	326		M 4.6 - south of the Fiji Islands					mb	earthquake	p00094vs				
1999-03-21T05:18:23.400000Z		1															
mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code				
4.2	52.978	40.152	33.0	271		M 4.2 - 14 km N of Türkmenbaşy, Turkmenistan					mb	earthquake	p00094vn				
1999-03-21T05:15:14.090000Z		1															
mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code				
4.1	-27.845	-55.822	100.0	259		M 4.1 - South Sandwich Islands region					mb	earthquake	p00094vm				

Graficas
Las gráficas con la representación de las pruebas realizadas.



Análisis

A pesar de que obtener un elemento en un *arbol* tiene una complejidad lineal $O(N)$, la implementación incurre en ciclos anidados, lo cual lo puede hacer complejo, $O(M^2)$.

Este comportamiento se puede evidenciar experimentalmente en la gráfica. Ya que, gracias a que los datos no se encuentran tan dispersos con respecto a la línea de tendencia, la curva coincide con el comportamiento exponencial esperado.

Requerimiento 2

Descripción

Este requerimiento se encarga de ver los eventos sísmicos mundiales ocurridos durante un intervalo de fechas específico.

Entrada	Magnitud inicial del intervalo(mag) • Magnitud final del intervalo(mag)
Salidas	El número total de eventos sísmicos ocurridos dentro del intervalo indicado. • Todos los eventos ocurridos en el intervalo ordenados cronológicamente desde el más reciente al más antiguo.

Implementado (Sí/No)	Si. Implementado por Harold Piñeros Monroy
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Análisis de complejidad

Análisis de complejidad de cada uno de los pasos del algoritmo

Pasos	Complejidad
Inicialización de estructuras de datos y conversiones de fechas:	$O(1)$
Obtención de elementos según rango demagnitud:	$O(\log(M))$
Ciclo anidado for para recorrer la lista de valores	$O(M*M)$
Creación y adición de elementos a una lista	$O(1)$
TOTAL	$O(M*M)$

Pruebas Realizadas

Las pruebas realizadas fueron realizadas en una maquina con las siguientes especificaciones. Los datos de entrada fueron fecha inicial 1999-03-21T05:00 y fecha final 2004-10-23T17:30.

Procesadores	8th Gen Intel(R) Core(TM) i7-8565U
Memoria RAM	16 GB
Sistema Operativo	Windows 11 Home

Entrada	Tiempo (ms)
small	12.81
5 pct	145.29
10 pct	77.78
20 pct	169.37
30 pct	283.64
50 pct	791.28
80 pct	12395.21
large	5907.25

Tablas de datos

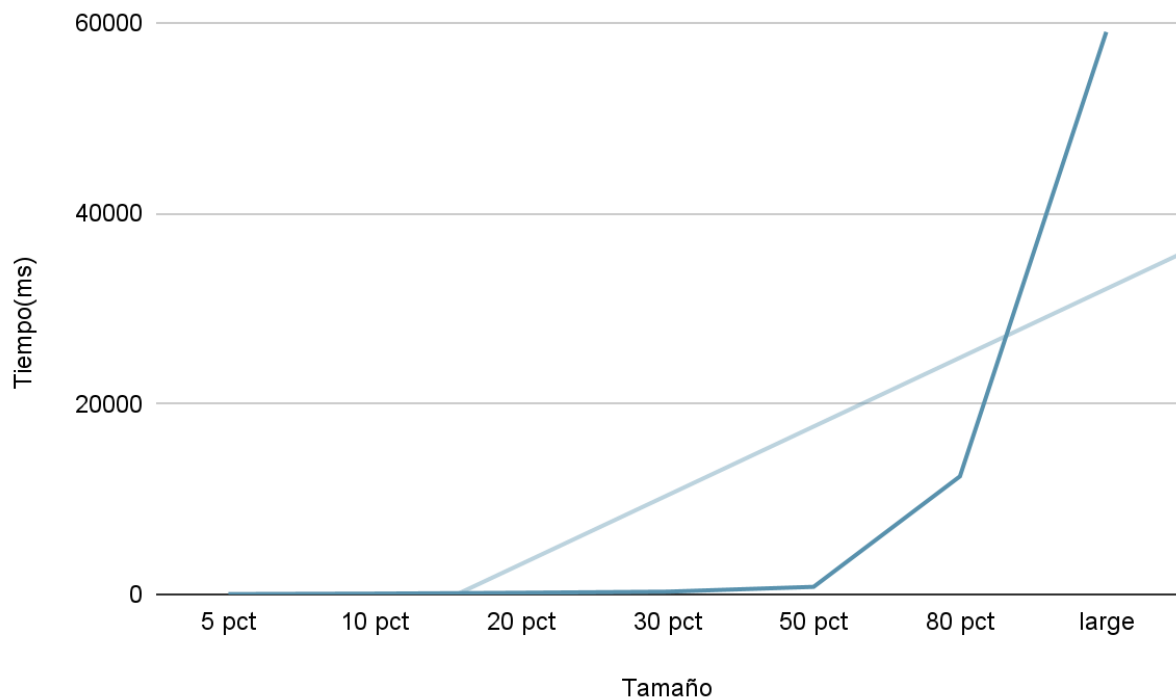
Las tablas con la recopilación de datos de las pruebas.

Muestra	Salida	Tiempo
small		
5 pct		
10 pct		

20 pct		
30 pct		
50 pct		
80 pct		
large		

Graficas

Las gráficas con la representación de las pruebas realizadas.



Análisis

A pesar de que obtener un elemento en un *arbol* tiene una complejidad lineal $O(N)$, la implementación incurre en ciclos anidados, lo cual lo puede hacer complejo, $O(Y^2)$.

Este comportamiento se puede evidenciar experimentalmente en la gráfica. Ya que, gracias a que los datos no se encuentran tan dispersos con respecto a la línea de tendencia, la curva coincide con el comportamiento exponencial esperado.

Requerimiento 3

Descripción

Este requerimiento se encarga de o consultar los 15 eventos sísmicos más recientes ocurridos que superen una significancia mínima y que sean menores a una distancia azimutal indicada.

Entrada	• La magnitud mínima del evento (mag). • La profundidad máxima del evento (depth).
Salidas	El número total de eventos sísmicos registrados mayores a la magnitud y menores a la profundidad indicada • Los diez (10) eventos cronológicamente más recientes que cumplan con los parámetros especificados. Cada uno de los eventos en la consulta
Implementado (Sí/No)	Si. Implementado por Harold Piñeros Monroy

Análisis de complejidad

Análisis de complejidad de cada uno de los pasos del algoritmo

Pasos	Complejidad
Creación de listas y diccionarios (tiempo constante): Esto incluye inicializar las estructuras de datos como listas y diccionarios.	$O(1)$
Buscar valores en un árbol binario	$O(\log(N))$
Ciclo anidado for para recorrer la lista de valores	$O(M)$
Buscar valores en un árbol binario	$O(\log(M))$
Ciclo anidado for para recorrer los valores	$O(Y)$
Verificación de condiciones y operaciones condicionales (tiempo constante)	$O(1)$
Ciclo anidado for para recorrer los valores	$O(Y*Y)$
Añadir al final de la lista los elementos	$O(1)$
Ordenamiento de la lista (sa.sort)	$O(Y(\log(Y)))$
TOTAL	$O(Y*(Y))$

Pruebas Realizadas

Las pruebas realizadas fueron realizadas en una maquina con las siguientes especificaciones. Los datos de entrada fueron significancia mínima 300.0 y distancia azimutal máxima de 48.0.

Procesadores	8th Gen Intel(R) Core(TM) i7-8565U
Memoria RAM	16 GB
Sistema Operativo	Windows 11 Home

Entrada	Tiempo (ms)
small	8.81
5 pct	54.41

10 pct	130.05
20 pct	295.83
30 pct	512.05
50 pct	2416.42
80 pct	3438.75
large	6724.65

Tablas de datos

Las tablas con la recopilación de datos de las pruebas.

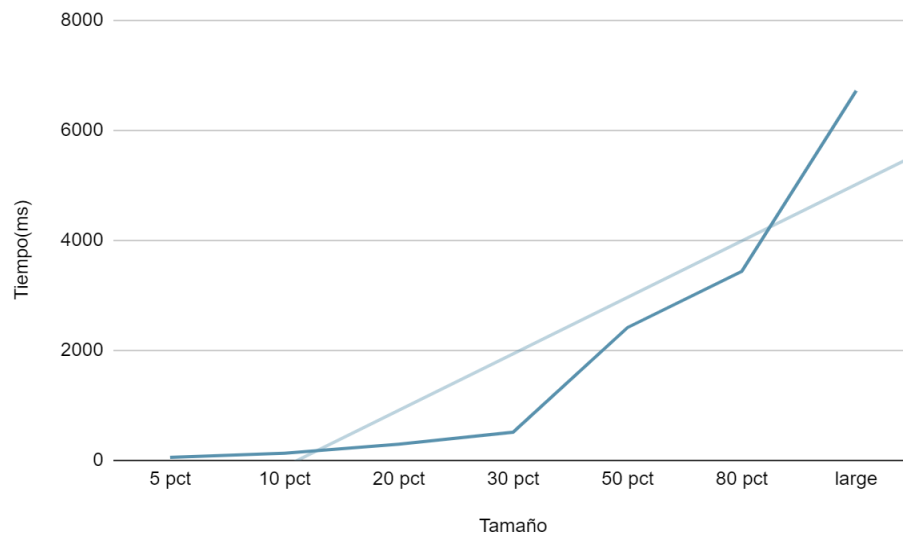
Muestra		Salida	Tiempo																																																																																																																																																																				
small	<table><tr><th>time</th><th>events</th><th>details</th></tr><tr><td>2023-07-27T20:13:11.862000Z</td><td>1</td><td><table><tr><th>mag</th><th>lat</th><th>long</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>mmi</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>5.2</td><td>3.2690</td><td>-31.4663</td><td>10.0</td><td>416</td><td>83.0</td><td>M 5.2 - central Mid-Atlantic Ridge</td><td></td><td></td><td>mb</td><td>earthquake</td><td>6000s40</td></tr></table></td></tr><tr><td>2023-07-20T03:31:32.945000Z</td><td>1</td><td><table><tr><th>mag</th><th>lat</th><th>long</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>mmi</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>5.2</td><td>-1.5687</td><td>126.4517</td><td>10.0</td><td>416</td><td>61.0</td><td>M 5.2 - 75 km NE of Samara, Indonesia</td><td></td><td></td><td>nsw</td><td>earthquake</td><td>70000dv</td></tr></table></td></tr><tr><td>2023-06-17T04:57:42.015000Z</td><td>1</td><td><table><tr><th>mag</th><th>lat</th><th>long</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>mmi</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>4.8</td><td>40.257</td><td>143.7456</td><td>10.0</td><td>354</td><td>48.0</td><td>M 4.8 - 165 km E of Noda, Japan</td><td></td><td></td><td>mb</td><td>earthquake</td><td>7000s95h</td></tr></table></td></tr><tr><td>2023-02-04T02:45:45.950000Z</td><td>1</td><td><table><tr><th>mag</th><th>lat</th><th>long</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>mmi</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>4.7</td><td>34.3241</td><td>45.7859</td><td>10.0</td><td>340</td><td>68.0</td><td>M 4.7 - 20 km SW of Sarpol-e Zhab, Iran</td><td>4.6</td><td></td><td>mb</td><td>earthquake</td><td>6000j1hp</td></tr></table></td></tr><tr><td>2023-01-14T13:43:13.203000Z</td><td>1</td><td><table><tr><th>mag</th><th>lat</th><th>long</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>mmi</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>4.7</td><td>-7.3507</td><td>155.7238</td><td>10.0</td><td>340</td><td>26.0</td><td>M 4.7 - 117 km SSE of Panguna, Papua New Guinea</td><td></td><td></td><td>mb</td><td>earthquake</td><td>7000j6d5</td></tr></table></td></tr><tr><td>2022-11-15T11:53:19.500000Z</td><td>1</td><td><table><tr><th>mag</th><th>lat</th><th>long</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>mmi</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>4.9</td><td>22.3352</td><td>121.0907</td><td>10.0</td><td>369</td><td>115.0</td><td>M 4.9 - 51 km NE of Hengchun, Taiwan</td><td></td><td></td><td>mb</td><td>earthquake</td><td>7000lpw</td></tr></table></td></tr></table>	time	events	details	2023-07-27T20:13:11.862000Z	1	<table><tr><th>mag</th><th>lat</th><th>long</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>mmi</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>5.2</td><td>3.2690</td><td>-31.4663</td><td>10.0</td><td>416</td><td>83.0</td><td>M 5.2 - central Mid-Atlantic Ridge</td><td></td><td></td><td>mb</td><td>earthquake</td><td>6000s40</td></tr></table>	mag	lat	long	depth	sig	nst	title	cdi	mmi	magType	type	code	5.2	3.2690	-31.4663	10.0	416	83.0	M 5.2 - central Mid-Atlantic Ridge			mb	earthquake	6000s40	2023-07-20T03:31:32.945000Z	1	<table><tr><th>mag</th><th>lat</th><th>long</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>mmi</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>5.2</td><td>-1.5687</td><td>126.4517</td><td>10.0</td><td>416</td><td>61.0</td><td>M 5.2 - 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Graficas

Las gráficas con la representación de las pruebas realizadas.



Análisis

A pesar de que obtener un elemento en un *arbol* tiene una complejidad lineal $O(N)$, la implementación incurre en ciclos anidados, lo cual lo puede hacer complejo, $O(Y^2)$.

Este comportamiento se puede evidenciar experimentalmente en la gráfica. Ya que, gracias a que los datos no se encuentran tan dispersos con respecto a la línea de tendencia, la curva coincide con el comportamiento exponencial esperado.

Requerimiento 4

Descripción

```
def req_4(sig,gap,analyzer):
    """
    Función que soluciona el requerimiento 6
    """
    # TODO: Realizar el requerimiento
    final = lt.newList('ARRAY_LIST')
    newList = lt.newList('ARRAY_LIST')
    dic = {}
    data_structs = analyzer['sig']

    x = om.values(data_structs,float(sig), float(om.maxKey(data_structs)))

    for i in lt.iterator(x):

        f = om.values(i,float(om.minKey(i)),float(gap))
        for j in lt.iterator(f):
            for z in lt.iterator(j):
                if len(z['gap'])>0:
                    if float(z['gap'])>0:
                        lt.addFirst(newList,z)
    sa.sort(newList,compareDates3)
    a = lt.subList(newList,1,17)
    for z in lt.iterator(a):
        time = z['time']

        dic[time] = {
            'time':time,
            'events':1,
            'details':z
        }
        lt.addLast(final,dic[time])
    return final
```

Este requerimiento se encarga de o consultar los 15 eventos sísmicos más recientes ocurridos que superen una significancia mínima y que sean menores a una distancia azimutal indicada.

Entrada	• La significancia mínima del evento (sig). • La distancia azimutal máxima del evento (gap).
Salidas	El número total de eventos sísmicos registrados mayores a la significancia y menores a la distancia azimutal indicada • Los quince (15) eventos cronológicamente más recientes que cumplan con los parámetros especificados. Cada uno de los eventos en la consulta
Implementado (Sí/No)	Si. Implementado por Luis Sebastián Contreras

Análisis de complejidad

Análisis de complejidad de cada uno de los pasos del algoritmo

Pasos	Complejidad
Creación de listas y diccionarios (tiempo constante): Esto incluye inicializar las estructuras de datos como listas y diccionarios.	$O(1)$
Buscar valores en un árbol binario	$O(\log(N))$
Ciclo anidado for para recorrer la lista de valores	$O(M)$
Buscar valores en un árbol binario	$O(\log(M))$
Ciclo anidado for para recorrer los valores	$O(Y)$
Verificación de condiciones y operaciones condicionales (tiempo constante)	$O(1)$
Ciclo anidado for para recorrer los valores	$O(Y*Y)$
Añadir al final de la lista los elementos	$O(1)$
Ordenamiento de la lista (sa.sort)	$O(Y(\log(Y)))$
TOTAL	$O(Y*(Y))$

Pruebas Realizadas

Las pruebas realizadas fueron realizadas en una maquina con las siguientes especificaciones. Los datos de entrada fueron significancia mínima 300.0 y distancia azimutal máxima de 48.0.

Procesadores	12th Gen Intel(R) Core(TM) i5-1235U
Memoria RAM	16 GB
Sistema Operativo	Windows 11 Home

Entrada	Tiempo (ms)
small	10.58
5 pct	27.35
10 pct	77.78
20 pct	169.37
30 pct	283.64
50 pct	791.28
80 pct	12395.21
large	5907.25

Tablas de datos

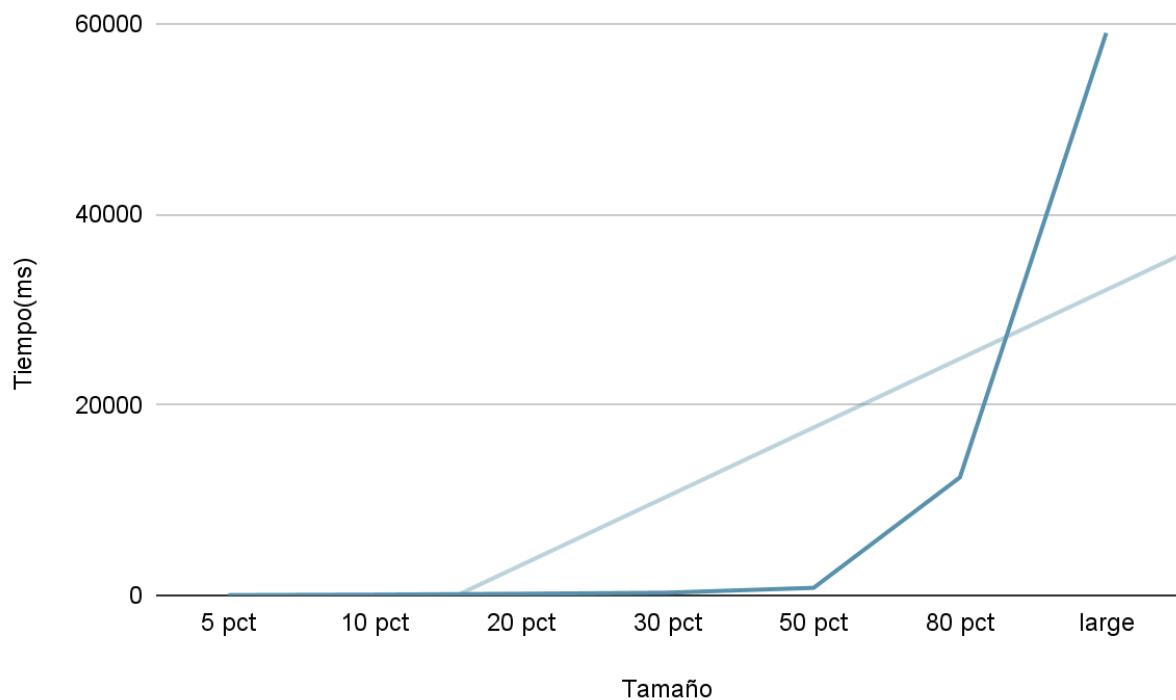
Las tablas con la recopilación de datos de las pruebas.

Muestra	Salida	Tiempo																																																																																																																																																																																	
small	<table><tr><th>time</th><th>events</th><th>details</th></tr><tr><td>2023-07-27 20:13:11.862000</td><td>1</td><td><table><tr><th>mag</th><th>long</th><th>lat</th><th>depth</th><th>sig</th><th>gap</th><th>nst</th><th>title</th><th>cdi</th><th>mmi</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>5.2</td><td>-31.4663</td><td>3.2089</td><td>10.0</td><td>416</td><td>40.0</td><td>83.0</td><td>M 5.2 - central Mid-Atlantic Ridge</td><td></td><td></td><td>mb</td><td>earthquake</td><td>6000bu09</td></tr></table></td></tr><tr><td>2023-04-28 20:07:01.518000</td><td>1</td><td><table><tr><th>mag</th><th>long</th><th>lat</th><th>depth</th><th>sig</th><th>gap</th><th>nst</th><th>title</th><th>cdi</th><th>mmi</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>4.9</td><td>94.1388</td><td>8.2568</td><td>17.972</td><td>369</td><td>32.0</td><td>135.0</td><td>M 4.9 - 292 km MM of Sabang, Indonesia</td><td></td><td></td><td>mb</td><td>earthquake</td><td>7000jev</td></tr></table></td></tr><tr><td>2023-03-21 16:47:23.628000</td><td>1</td><td><table><tr><th>mag</th><th>long</th><th>lat</th><th>depth</th><th>sig</th><th>gap</th><th>nst</th><th>title</th><th>cdi</th><th>mmi</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>6.5</td><td>70.943</td><td>36.523</td><td>192.0</td><td>1350</td><td>12.0</td><td>164.0</td><td>M 6.5 - 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30 pct	<div>30</div> <table><tr><th>time</th><th>events</th><th colspan="13">details</th></tr><tr><td>2023-08-28 20:08:06.515000</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>gap</td><td>nst</td><td colspan="5">title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>5.6</td><td>117.2147</td><td>-7.0459</td><td>477.481</td><td>485</td><td>39.0</td><td>75.0</td><td colspan="5">M 5.6 - 153 km N of Pototano, Indonesia</td><td>3.8</td><td>1.847</td><td>mb</td><td>earthquake</td><td>7000krk4</td></tr><tr><td>2023-08-28 19:55:31.821000</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>gap</td><td>nst</td><td colspan="5">title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>7.1</td><td>116.548</td><td>-6.7876</td><td>513.545</td><td>1816</td><td>22.0</td><td>111.0</td><td colspan="5">M 7.1 - 181 km NNE of Gilli Air, Indonesia</td><td>4.8</td><td>3.872</td><td>maw</td><td>earthquake</td><td>7000krjx</td></tr><tr><td>2023-08-28 05:23:51.199000</td><td>1</td><td>mag</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>gap</td><td>nst</td><td colspan="5">title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>4.6</td><td>126.1261</td><td>-7.1859</td><td>447.744</td><td>326</td><td>42.0</td><td>52.0</td><td colspan="5">M 4.6 - 147 km N of Manufutu, Timor Leste</td><td></td><td></td><td>mb</td><td>earthquake</td><td>7000krf8</td></tr></table>	time	events	details													2023-08-28 20:08:06.515000	1	mag	long	lat	depth	sig	gap	nst	title					cdi	mmi	magType	type	code			5.6	117.2147	-7.0459	477.481	485	39.0	75.0	M 5.6 - 153 km N of Pototano, Indonesia					3.8	1.847	mb	earthquake	7000krk4	2023-08-28 19:55:31.821000	1	mag	long	lat	depth	sig	gap	nst	title					cdi	mmi	magType	type	code			7.1	116.548	-6.7876	513.545	1816	22.0	111.0	M 7.1 - 181 km NNE of Gilli Air, Indonesia					4.8	3.872	maw	earthquake	7000krjx	2023-08-28 05:23:51.199000	1	mag	long	lat	depth	sig	gap	nst	title					cdi	mmi	magType	type	code			4.6	126.1261	-7.1859	447.744	326	42.0	52.0	M 4.6 - 147 km N of Manufutu, Timor Leste							mb	earthquake	7000krf8	283.64
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[illegible]

Las gráficas con la representación de las pruebas realizadas.



Análisis

A pesar de que obtener un elemento en un *arbol* tiene una complejidad lineal $O(N)$, la implementación incurre en ciclos anidados, lo cual lo puede hacer complejo, $O(Y^2)$.

Este comportamiento se puede evidenciar experimentalmente en la gráfica. Ya que, gracias a que los datos no se encuentran tan dispersos con respecto a la línea de tendencia, la curva coincide con el comportamiento exponencial esperado.

Requerimiento 5

Descripción

```
def req_6(depth,nst,analyzer):
    """
    Función que soluciona el requerimiento 6
    """
    # TODO: Realizar el requerimiento 6

    newList = lt.newList('SINGLE_LINKED')
    data_structs = analyzer['depth']
    x = om.values(data_structs,depth, om.maxKey(data_structs))

    for i in lt.iterator(x):
        f = om.values(i,nst,om.maxKey(i))

        for j in lt.iterator(f):
            for z in lt.iterator(j):
                lt.addLast(newList,z )

    merg.sort(newList,compareDates2)

    return newList
```

Este requerimiento se encarga de retornar los eventos sísmicos más recientes que superen una profundidad mínima y un número mínimo de estaciones de monitoreo. Sabemos que los datos están compuestos por un árbol el cual tiene una llave de profundidad y dentro del valor existe otro árbol que están el número mínimo de estaciones de monitoreo. Lo primero que hace es tomar los rangos de los dos árboles y ordenarlos de menor a mayor.

Entrada	La profundidad mínima del evento (depth). El número mínimo de estaciones que detectan el evento (nst).
Salidas	Un array list que cumpla con los requisitos anteriores del mas reciente al mas antiguo.
Implementado (Sí/No)	Si. Implementado por Carlos Alberto Poveda Riaño

Análisis de complejidad

Análisis de complejidad de cada uno de los pasos del algoritmo

Pasos	Complejidad
<code>newList = lt.newList('SINGLE_LINKED')</code> Crea una lista encadenada	O(1)
<code>x = om.values(data_structs,depth, om.maxKey(data_structs))</code> Retorna todos los valores en una lista encadenada del arbol que se encuentren entre [keylo, keyhi]	O(n)
<code>for i in lt.iterator(x):</code> el valor de un arbol que es un arbol	O(n)
<code>f = om.values(i,nst,om.maxKey(i))</code> Retorna todos los valores en una lista encadenada del arbol que se encuentren entre [keylo, keyhi]	O(n)
<code>for z in lt.iterator(j):</code>	O(n)

<code>lt.addLast(newLista, z)</code> se agregan los elementos del arbol a una nueva lista	
<code>merg.sort(newLista,compareDates2)</code> ordena los datos del mas reciente al mas antiguo	$O(n \log(n))$
TOTAL	$O(n \log(n))$

Pruebas Realizadas

Las pruebas realizadas fueron realizadas en una maquina con las siguientes especificaciones. Los datos de entrada fueron profundidad: 23 y numero de estaciones 38.

Procesadores	Intel(R) Core(TM) i5-6400 CPU
Memoria RAM	16 GB
Sistema Operativo	Windows 10

Carga de datos

Entrada	Tiempo (ms)
small	1010.4
5 pct	5092.68
10 pct	11045.39
20 pct	20937.39
30 pct	34501.28
50 pct	59342.50
80 pct	95912.55
large	109279.5

Tablas de datos

Las tablas con la recopilación de datos de las pruebas.

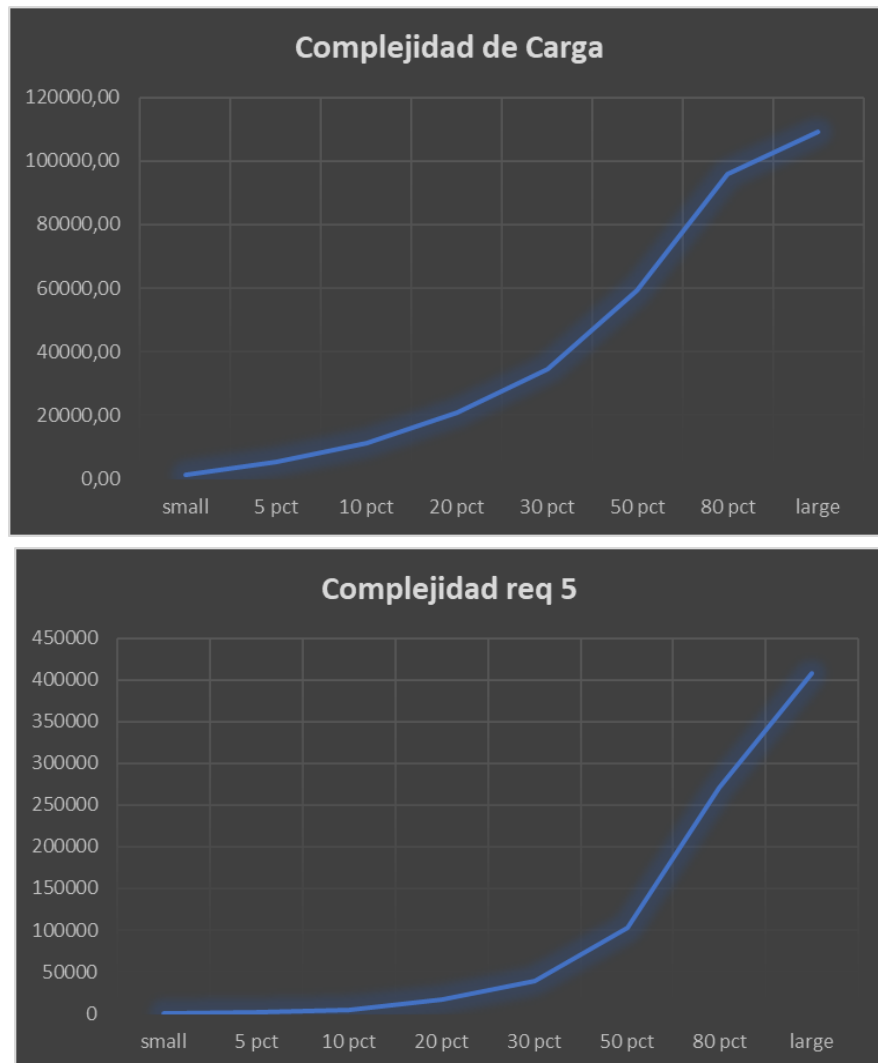
Muest	Salida	Tiempo

small	<div><div>Total de eventos : 462</div><table><tr><th>time</th><th>events</th><th>details</th></tr><tr><td>2023-07-20 14:27:18.345000</td><td>1</td><td><table><tr><th>mag</th><th>long</th><th>lat</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>ml</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>4.0</td><td>-103.0038</td><td>54.3624</td><td>0.0</td><td>240</td><td>49.0</td><td>H 4.0 - 332 km SSE of Seward Point, Alaska</td><td>3.4</td><td>2.466</td><td>ml</td><td>earthquake</td><td>1000b071</td></tr></table></td></tr><tr><td>2023-07-24 13:02:17.873000</td><td>1</td><td><table><tr><th>mag</th><th>long</th><th>lat</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>ml</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>4.4</td><td>178.7607</td><td>-24.4078</td><td>522.850</td><td>200</td><td>42.0</td><td>H 4.4 - south of the Fiji Islands</td><td></td><td></td><td>ml</td><td>earthquake</td><td>7000b09y</td></tr></table></td></tr><tr><td>2023-07-02 20:23:51.867000</td><td>1</td><td><table><tr><th>mag</th><th>long</th><th>lat</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>ml</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>4.5</td><td>-177.854</td><td>-19.3078</td><td>436.531</td><td>312</td><td>86.0</td><td>H 4.5 - Fiji region</td><td></td><td></td><td>ml</td><td>earthquake</td><td>0000c03</td></tr></table></td></tr><tr><td>2000-07-20 07:52:54.500000</td><td>1</td><td><table><tr><th>mag</th><th>long</th><th>lat</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>ml</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>4.6</td><td>145.071</td><td>17.240</td><td>139.6</td><td>126</td><td>83.0</td><td>H 4.6 - 225 km N of Salawa, Northern Mariana Islands</td><td></td><td></td><td>ml</td><td>earthquake</td><td>1000b0a0</td></tr></table></td></tr><tr><td>2000-07-09 19:40:24.200000</td><td>1</td><td><table><tr><th>mag</th><th>long</th><th>lat</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>ml</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>4.5</td><td>-169.884</td><td>52.259</td><td>33.0</td><td>312</td><td>69.0</td><td>H 4.5 - 99 km SE of Niniwasi, Alaska</td><td></td><td></td><td>ml</td><td>earthquake</td><td>1000b0d5</td></tr></table></td></tr><tr><td>1999-02-24 00:17:05.470000</td><td>1</td><td><table><tr><th>mag</th><th>long</th><th>lat</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>ml</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>3.0</td><td>-155.83304</td><td>19.745</td><td>30.300</td><td>128</td><td>38.0</td><td>H 3.0 - 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147 km N of Manatutu, Timor Leste</td><td></td><td></td><td>ml</td><td>earthquake</td><td>7000b0r8</td></tr></table></td></tr><tr><td>1994-02-01 18:01:54.000000</td><td>1</td><td><table><tr><th>mag</th><th>long</th><th>lat</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>ml</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>5.26</td><td>-155.29817</td><td>19.252832</td><td>34.087</td><td>426</td><td>43.0</td><td>H 5.3 - 19 km ENE of Pihalo, Hawaii</td><td>7.576</td><td></td><td>ml</td><td>earthquake</td><td>3014318</td></tr></table></td></tr><tr><td>1993-10-05 05:43:49.500000</td><td>1</td><td><table><tr><th>mag</th><th>long</th><th>lat</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>ml</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>3.3</td><td>-155.861</td><td>20.347</td><td>28.513</td><td>168</td><td>48.0</td><td>H 3.3 - 10 km SSE of Kih, Hawaii</td><td></td><td></td><td>ml</td><td>earthquake</td><td>3002084</td></tr></table></td></tr><tr><td>1993-06-19 00:52:24.100000</td><td>1</td><td><table><tr><th>mag</th><th>long</th><th>lat</th><th>depth</th><th>sig</th><th>nst</th><th>title</th><th>cdi</th><th>ml</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>3.6</td><td>-124.323166</td><td>40.670166</td><td>23.436</td><td>199</td><td>45.0</td><td>H 3.6 - 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Graficas

Las gráficas con la representación de las pruebas realizadas.



Análisis

Este requerimiento tiene una complejidad **$O(n \log(n))$** a pesar de que utilizamos estructura de árboles para optimizar el requerimiento, necesita de ordenamientos que influencia en la complejidad, al inicio tiene una complejidad constante, sin embargo, al acceso de los valores de los árboles y los ordenamientos tiende la complejidad a aumentar, De manera que se evidencia que la complejidad en el mejor va ser siempre **$O(n \log(n))$** .

Este comportamiento se puede evidenciar experimentalmente en la gráfica. Ya que, gracias a que los datos no se encuentran tan dispersos con respecto a la línea de tendencia, la curva coincide con el comportamiento curvo esperado.

Requerimiento 6

Descripción

```
def req_5(year,lat,lon,radio, data_structs):
    a =0
    max ={}
    c = lt.newList('SINGLE_LINKED')
    array = lt.newList('ARRAY_LIST')
    array2 = lt.newList('ARRAY_LIST')
    temblor =m.get(data_structs,year)
    temblores = me.getValue(temblor)
    for j in lt.iterator(temblores):
        distancia = getdistance(lon,lat,j['long'],j['lat'])
        time = j['time']
        time2 = datetime.datetime.strptime(j['time'],'%Y-%m-%dT%H:%M:%S.%fZ')
        j['time'] = time2
        j['distancia'] = round(distancia,3)

        if j['distancia'] <radio:
            lt.addLast(array,j)
            if a <float(j['mag']):
                a =float(j['mag'])
                max = j
    lt.addLast(c,max)
    f = merg.sort(array,compareDates3)
    return f, c
```

Este requerimiento se encarga de retornar el sismo más significativo de un año dado dentro de un área circundante de una coordenada GPS designada, y los N eventos sísmicos más próximos cronológicamente. Se toma el valor del año de una tabla hash y se hacen los respectivos cálculos para obtener la distancia y así organizarlos.

Entrada	El año relevante (en formato “%Y”). La Latitud de referencia para el área de eventos (lat). La longitud de referencia para el área de eventos (long). El radio [km] del área circundante (float). El número de los N eventos de magnitud más cercana a mostrar.
Salidas	el evento maximo y un array list de los temblores mas recientes
Implementado (Sí/No)	Si. Implementado por Carlos Alberto Poveda Riaño

Análisis de complejidad

Análisis de complejidad de cada uno de los pasos del algoritmo

Pasos	Complejidad
array = lt.newList('ARRAY_LIST') Se crea un array list	O(1)
temblor =m.get(data_structs,year) Retorna la pareja llave, valor, cuya llave sea igual a key	O(1)

temblor =m.get(data_structs,year) Retorna el valor de una pareja de un Map	O(1)
for j in lt.iterator(temblores):	O(n)
merg.sort(array,compareDates3)	O(n(log(n)))
lt.addLast(array,j) agrega el elemento a la lista	O(1)
TOTAL	$O(n(\log(n)))$

Pruebas Realizadas

Las pruebas realizadas fueron realizadas en una maquina con las siguientes especificaciones. Los datos de entrada fueron año: 2022, latitud: 4.674, longitud: 74.068, radio :3000, numero de eventos: 5

Procesadores	Intel(R) Core(TM) i5-6400 CPU
Memoria RAM	16 GB
Sistema Operativo	Windows 10

Entrada	Tiempo (ms)
small	1010.4
5 pct	5092.68
10 pct	11045.39
20 pct	20937.39
30 pct	34501.28
50 pct	59342.50
80 pct	95912.55
large	109279.5

Tablas de datos

Las tablas con la recopilación de datos de las pruebas.

Muestra	Salida	Tiemp

small	<table><tr><th>time</th><th>mag</th><th>lat</th><th>long</th><th>depth</th><th>sig</th><th>gap</th><th>distance</th><th>net</th><th>title</th><th>col</th><th>ml</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>2022-02-26 20:09:00.1</td><td>5.4</td><td>15.5564</td><td>-96.0807</td><td>10.54</td><td>307</td><td>87.0</td><td>208.436</td><td></td><td>M 5.4 - 47 km SE of 4.3</td><td></td><td>ml</td><td>earthquake</td><td>786gpt</td><td></td></tr><tr><td colspan="15">events</td></tr><tr><td colspan="15">details</td></tr><tr><td>2022-02-26 20:09:00.000000</td><td>1</td><td>mag</td><td>lat</td><td>long</td><td>depth</td><td>sig</td><td>gap</td><td>distance</td><td>net</td><td>title</td><td>col</td><td>ml</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>5.4</td><td>15.5564</td><td>-96.0807</td><td>10.54</td><td>307</td><td>87.0</td><td>208.436</td><td></td><td>M 5.4 - 47 km SE of 4.3</td><td></td><td>ml</td><td>earthquake</td><td>786gpt</td><td></td></tr><tr><td>2022-02-26 20:09:00.400000</td><td>1</td><td>mag</td><td>lat</td><td>long</td><td>depth</td><td>sig</td><td>gap</td><td>distance</td><td>net</td><td>title</td><td>col</td><td>ml</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>5.4</td><td>15.5564</td><td>-96.0807</td><td>10.54</td><td>307</td><td>87.0</td><td>208.436</td><td></td><td>M 5.4 - 47 km SE of 4.3</td><td></td><td>ml</td><td>earthquake</td><td>786gpt</td><td></td></tr><tr><td>2022-02-26 20:09:01.000000</td><td>1</td><td>mag</td><td>lat</td><td>long</td><td>depth</td><td>sig</td><td>gap</td><td>distance</td><td>net</td><td>title</td><td>col</td><td>ml</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>4.2</td><td>16.5389</td><td>-92.4766</td><td>4.7</td><td>274</td><td>36.4</td><td>150.228</td><td></td><td>M 4.2 - 5 km NE of Languay, Haiti</td><td></td><td>ml</td><td>earthquake</td><td>786gpt</td><td></td></tr><tr><td>2022-02-26 20:09:01.500000</td><td>1</td><td>mag</td><td>lat</td><td>long</td><td>depth</td><td>sig</td><td>gap</td><td>distance</td><td>net</td><td>title</td><td>col</td><td>ml</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>5.4</td><td>15.5564</td><td>-96.0807</td><td>10.54</td><td>307</td><td>87.0</td><td>208.436</td><td></td><td>M 5.4 - 47 km SE of 4.3</td><td></td><td>ml</td><td>earthquake</td><td>786gpt</td><td></td></tr><tr><td>2022-02-26 21:00:00.000000</td><td>1</td><td>mag</td><td>lat</td><td>long</td><td>depth</td><td>sig</td><td>gap</td><td>distance</td><td>net</td><td>title</td><td>col</td><td>ml</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>5.4</td><td>15.5564</td><td>-96.0807</td><td>10.54</td><td>307</td><td>87.0</td><td>208.436</td><td></td><td>M 5.4 - 47 km SE of 4.3</td><td></td><td>ml</td><td>earthquake</td><td>786gpt</td><td></td></tr><tr><td>2022-02-26 21:00:00.500000</td><td>1</td><td>mag</td><td>lat</td><td>long</td><td>depth</td><td>sig</td><td>gap</td><td>distance</td><td>net</td><td>title</td><td>col</td><td>ml</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>4.8</td><td>16.852</td><td>-95.371</td><td>106.55</td><td>285</td><td>100.8</td><td>340.78</td><td></td><td>M 4.8 - 48 km SE of Jacmel, Haiti</td><td></td><td>ml</td><td>earthquake</td><td>786gpt</td><td></td></tr><tr><td colspan="15">11 Events for 4.0-5.999999999999</td></tr></table>	time	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code	2022-02-26 20:09:00.1	5.4	15.5564	-96.0807	10.54	307	87.0	208.436		M 5.4 - 47 km SE of 4.3		ml	earthquake	786gpt		events															details															2022-02-26 20:09:00.000000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			5.4	15.5564	-96.0807	10.54	307	87.0	208.436		M 5.4 - 47 km SE of 4.3		ml	earthquake	786gpt		2022-02-26 20:09:00.400000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			5.4	15.5564	-96.0807	10.54	307	87.0	208.436		M 5.4 - 47 km SE of 4.3		ml	earthquake	786gpt		2022-02-26 20:09:01.000000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			4.2	16.5389	-92.4766	4.7	274	36.4	150.228		M 4.2 - 5 km NE of Languay, Haiti		ml	earthquake	786gpt		2022-02-26 20:09:01.500000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			5.4	15.5564	-96.0807	10.54	307	87.0	208.436		M 5.4 - 47 km SE of 4.3		ml	earthquake	786gpt		2022-02-26 21:00:00.000000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			5.4	15.5564	-96.0807	10.54	307	87.0	208.436		M 5.4 - 47 km SE of 4.3		ml	earthquake	786gpt		2022-02-26 21:00:00.500000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			4.8	16.852	-95.371	106.55	285	100.8	340.78		M 4.8 - 48 km SE of Jacmel, Haiti		ml	earthquake	786gpt		11 Events for 4.0-5.999999999999															4.64																																				
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50 km NW of Charco Viejo, U.S. Virgin Islands</td><td></td><td>ml</td><td>earthquake</td><td>786gpt</td><td></td></tr><tr><td>2022-02-26 21:41:01.700000</td><td>1</td><td>mag</td><td>lat</td><td>long</td><td>depth</td><td>sig</td><td>gap</td><td>distance</td><td>net</td><td>title</td><td>col</td><td>ml</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>4.2</td><td>16.4502</td><td>-95.229</td><td>10.8</td><td>259</td><td>112.8</td><td>244.54</td><td></td><td>M 4.2 - 4 km SE of San Pedro Castañeda, Mexico</td><td></td><td>ml</td><td>earthquake</td><td>786gpt</td><td></td></tr><tr><td>2022-02-26 21:41:01.400000</td><td>1</td><td>mag</td><td>lat</td><td>long</td><td>depth</td><td>sig</td><td>gap</td><td>distance</td><td>net</td><td>title</td><td>col</td><td>ml</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>5.5</td><td>16.2693</td><td>-95.9026</td><td>16.8</td><td>402</td><td>70.8</td><td>236.386</td><td>101.8</td><td>M 5.5 - 51 km NW of 5.2</td><td></td><td>ml</td><td>earthquake</td><td>786gpt</td><td></td></tr><tr><td>2022-02-26 21:41:01.400000</td><td>1</td><td>mag</td><td>lat</td><td>long</td><td>depth</td><td>sig</td><td>gap</td><td>distance</td><td>net</td><td>title</td><td>col</td><td>ml</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>5.5</td><td>16.2693</td><td>-95.9026</td><td>16.8</td><td>402</td><td>70.8</td><td>236.386</td><td>101.8</td><td>M 5.5 - 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128 km SW of Sector Belizario Dominguez (La Barva), Mexico		ml	earthquake	786gpt		2022-02-26 21:41:00.000000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			5.4	16.9866	-95.000	10.04	300	133.8	180.439	101.8	M 5.4 - 50 km NW of Charco Viejo, U.S. Virgin Islands		ml	earthquake	786gpt		2022-02-26 21:41:01.700000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			4.2	16.4502	-95.229	10.8	259	112.8	244.54		M 4.2 - 4 km SE of San Pedro Castañeda, Mexico		ml	earthquake	786gpt		2022-02-26 21:41:01.400000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			5.5	16.2693	-95.9026	16.8	402	70.8	236.386	101.8	M 5.5 - 51 km NW of 5.2		ml	earthquake	786gpt		2022-02-26 21:41:01.400000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			5.5	16.2693	-95.9026	16.8	402	70.8	236.386	101.8	M 5.5 - 51 km NW of 5.2		ml	earthquake	786gpt		2022-02-26 21:41:01.500000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			5.5	16.2693	-95.9026	16.8	402	70.8	236.386	101.8	M 5.5 - 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50 km NW of Charco Viejo, U.S. Virgin Islands		ml	earthquake	786gpt		2022-02-26 21:41:01.700000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			4.2	16.4502	-95.229	10.8	259	112.8	244.54		M 4.2 - 4 km SE of San Pedro Castañeda, Mexico		ml	earthquake	786gpt		2022-02-26 21:41:01.400000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			5.5	16.2693	-95.9026	16.8	402	70.8	236.386	101.8	M 5.5 - 51 km NW of 5.2		ml	earthquake	786gpt		2022-02-26 21:41:01.400000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			5.5	16.2693	-95.9026	16.8	402	70.8	236.386	101.8	M 5.5 - 51 km NW of 5.2		ml	earthquake	786gpt		2022-02-26 21:41:01.500000	1	mag	lat	long	depth	sig	gap	distance	net	title	col	ml	magType	type	code			5.5	16.2693	-95.9026	16.8	402	70.8	236.386	101.8	M 5.5 - 51 km NW of 5.2		ml	earthquake	786gpt		11 Events for 4.0-5.999999999999															78.34				
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Análisis

En este requerimiento se utilizó la tabla hash lo que permitió la accesibilidad de los datos más rápido, aunque el ordenamiento tiene un orden lineal $O(n)$. Esto debido a que, lo primero que se hace una búsqueda en la tabla de hash si el elemento hace parte del mapa. Sin embargo, al ordenarlo y al hacer un ciclo la complejidad es lineal.

Este comportamiento se puede evidenciar experimentalmente en la gráfica. Ya que, gracias a que los datos no se encuentran tan dispersos con respecto a la línea de tendencia, la curva coincide con el comportamiento lineal esperado.

Requerimiento 7

Descripción

```
def req_7_histogram(year, title, prop, bins, analyzer):  
  
    prop_values = lt.newList('ARRAY_LIST')  
  
    year = me.getValue(m.get(analyzer['year'],int(year)))  
    lista = lt.newList('ARRAY_LIST')  
  
    prop_values2 = []  
  
    # Iterar por las fechas  
    for date in lt.iterator(year):  
  
        if title in date['title']:  
            if date[prop] is not None:  
                lt.addLast(prop_values, date[prop])  
                lt.addLast(lista, date)  
  
    sa.sort(prop_values, compare_prop)  
    sa.sort(lista, compareDates2)  
    for a in lt.iterator(prop_values):  
        prop_values2.append(a)  
  
    mayor = lt.firstElement(prop_values)  
    menor = lt.lastElement(prop_values)  
  
    # Mostrar el resumen de eventos y rangos  
    return lt.size(year), lt.size(lista), mayor, menor, prop_values2, lista
```

Este requerimiento se encarga de contabilizar los eventos sísmicos ocurridos en una región y un año específico según alguna propiedad de interés como lo son su magnitud (mag), profundidad (depth) o la significancia del evento (sig).

Entrada	<ul style="list-style-type: none">• El año relevante (en formato “%Y”).• El título de la región asociada (“title”).• La propiedad de conteo (magnitud, profundidad o significancia).• El número de segmentos o casillas (bins) en los que se divide el histograma.
---------	---

Salidas	El número de eventos sísmicos dentro del periodo anual relevante. • El número de eventos sísmicos utilizados para crear el histograma de la propiedad. • Valor mínimo y valor máximo de la propiedad consultada en el histograma. • El histograma con la distribución de los eventos sísmicos según la propiedad. • Listado de los eventos que cumplen las condiciones de conteo para el histograma.
Implementado (Sí/No)	Si. Implementado por Luis Sebastián Contreras

Análisis de complejidad

Análisis de complejidad de cada uno de los pasos del algoritmo

Pasos	Complejidad
Inicialización de estructuras de datos y conversiones de fechas:	$O(1)$
Obtención de elementos según rango de fechas	$O(N)$
Ciclo anidado for para recorrer la lista de valores	$O(N)$
Creación y adición de elementos a una lista:	$O(1)$
Ordenar los elementos de la lista	$O(M \log(M))$
Iterar los elementos de la lista	$O(M)$
Añadir a la lista un elemento	$O(1)$
TOTAL	$O(M(\log(M)))$

Pruebas Realizadas

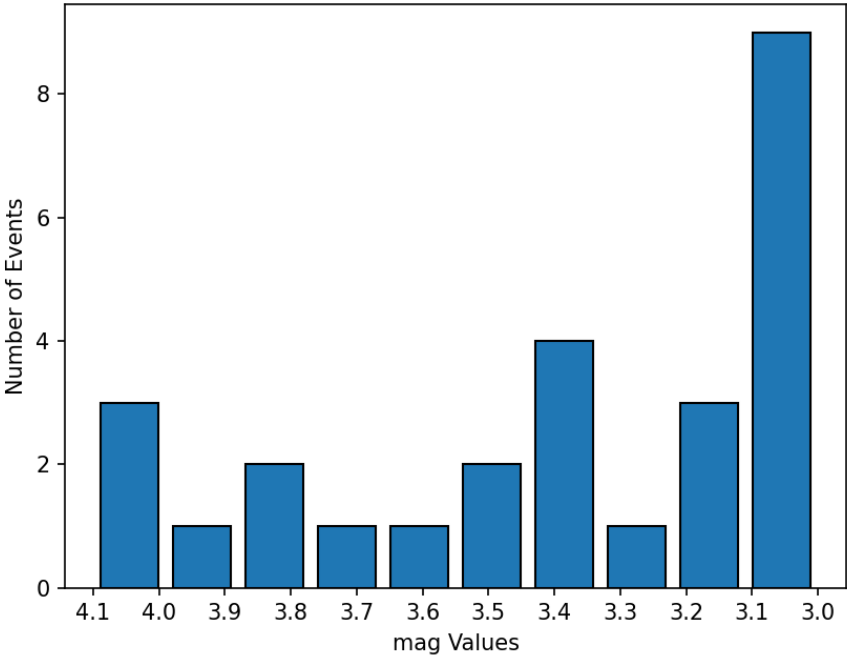
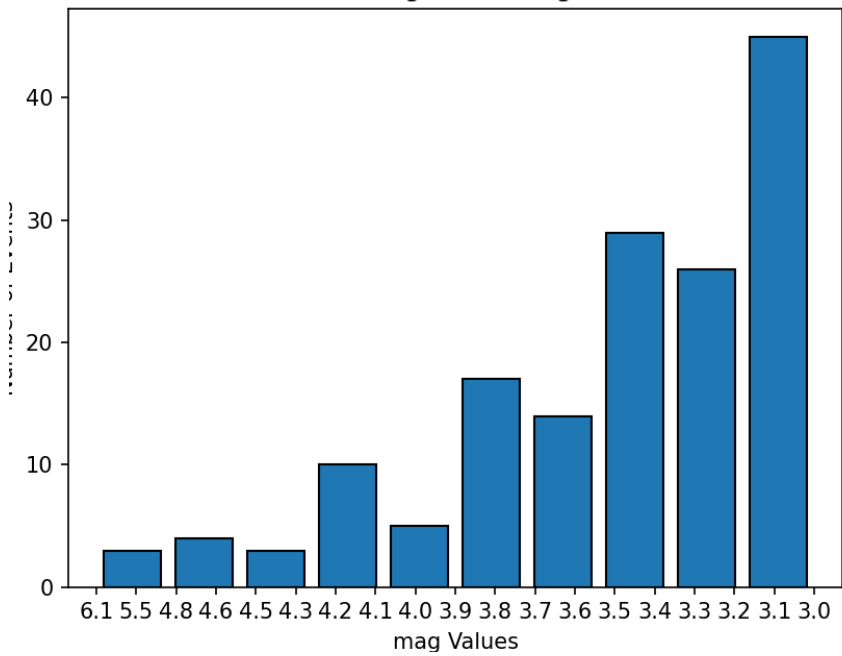
Las pruebas realizadas fueron realizadas en una maquina con las siguientes especificaciones. Los datos de entrada fueron significancia mínima 300.0 y distancia azimutal máxima de 48.0.

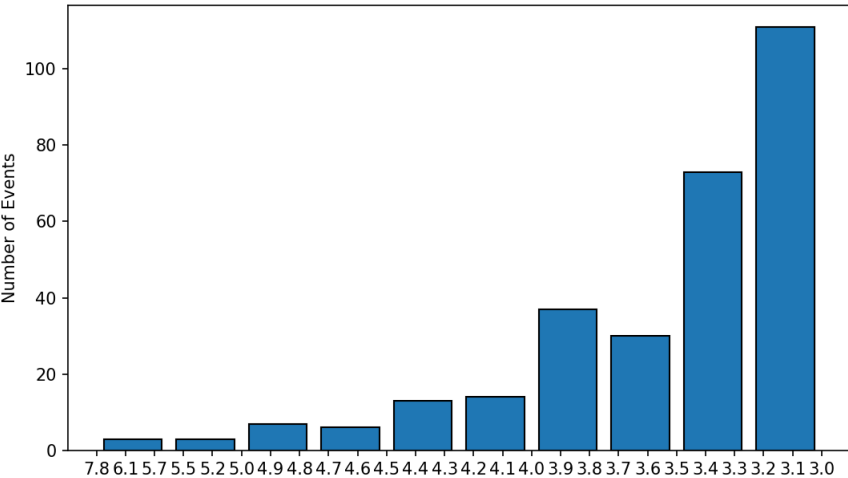
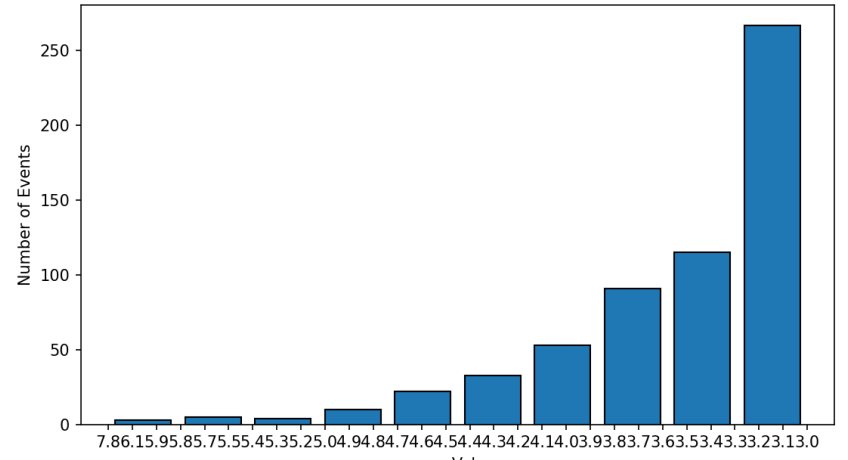
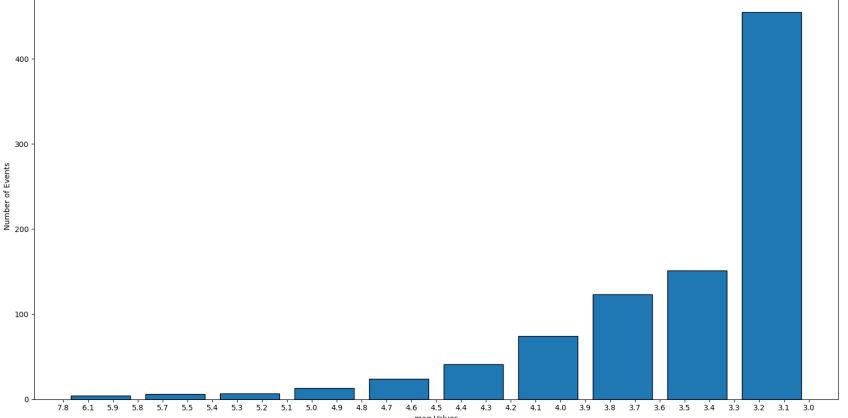
Procesadores	12th Gen Intel(R) Core(TM) i5-1235U
Memoria RAM	16 GB
Sistema Operativo	Windows 11 Home

Entrada	Tiempo (ms)
small	0.75
5 pct	4.44
10 pct	12.70
20 pct	51.34
30 pct	36.59
50 pct	70.96
80 pct	126.23
large	167.297

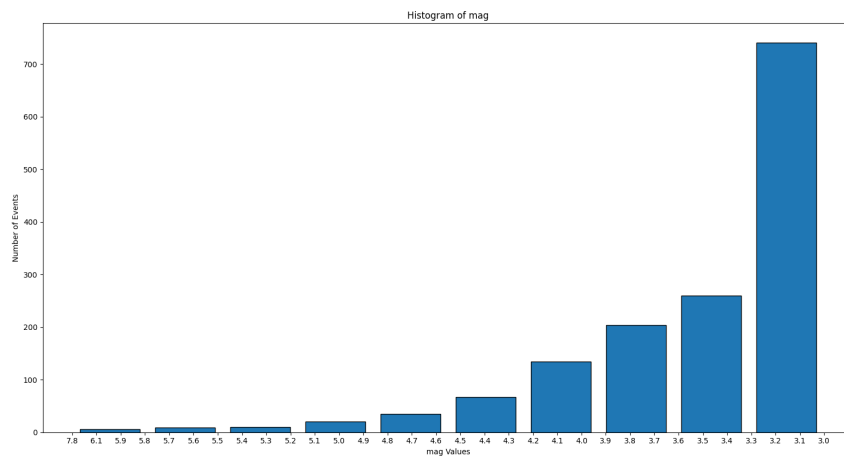
Tablas de datos

Las tablas con la recopilación de datos de las pruebas.

Muestra	Salida	Tiempo																																								
small	<div><div>Histogram of mag</div><table><thead><tr><th>mag Values</th><th>Number of Events</th></tr></thead><tbody><tr><td>4.1</td><td>3</td></tr><tr><td>4.0</td><td>0</td></tr><tr><td>3.9</td><td>1</td></tr><tr><td>3.8</td><td>2</td></tr><tr><td>3.7</td><td>1</td></tr><tr><td>3.6</td><td>1</td></tr><tr><td>3.5</td><td>2</td></tr><tr><td>3.4</td><td>4</td></tr><tr><td>3.3</td><td>1</td></tr><tr><td>3.2</td><td>3</td></tr><tr><td>3.1</td><td>9</td></tr><tr><td>3.0</td><td>0</td></tr></tbody></table></div>	mag Values	Number of Events	4.1	3	4.0	0	3.9	1	3.8	2	3.7	1	3.6	1	3.5	2	3.4	4	3.3	1	3.2	3	3.1	9	3.0	0	0.75														
mag Values	Number of Events																																									
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5 pct	<div><div>Histogram of mag</div><table><thead><tr><th>mag Values</th><th>Number of Events</th></tr></thead><tbody><tr><td>6.1</td><td>0</td></tr><tr><td>5.5</td><td>3</td></tr><tr><td>4.8</td><td>0</td></tr><tr><td>4.6</td><td>4</td></tr><tr><td>4.5</td><td>0</td></tr><tr><td>4.3</td><td>3</td></tr><tr><td>4.2</td><td>0</td></tr><tr><td>4.1</td><td>10</td></tr><tr><td>4.0</td><td>5</td></tr><tr><td>3.9</td><td>0</td></tr><tr><td>3.8</td><td>17</td></tr><tr><td>3.7</td><td>14</td></tr><tr><td>3.6</td><td>0</td></tr><tr><td>3.5</td><td>29</td></tr><tr><td>3.4</td><td>0</td></tr><tr><td>3.3</td><td>26</td></tr><tr><td>3.2</td><td>0</td></tr><tr><td>3.1</td><td>45</td></tr><tr><td>3.0</td><td>0</td></tr></tbody></table></div>	mag Values	Number of Events	6.1	0	5.5	3	4.8	0	4.6	4	4.5	0	4.3	3	4.2	0	4.1	10	4.0	5	3.9	0	3.8	17	3.7	14	3.6	0	3.5	29	3.4	0	3.3	26	3.2	0	3.1	45	3.0	0	4.44
mag Values	Number of Events																																									
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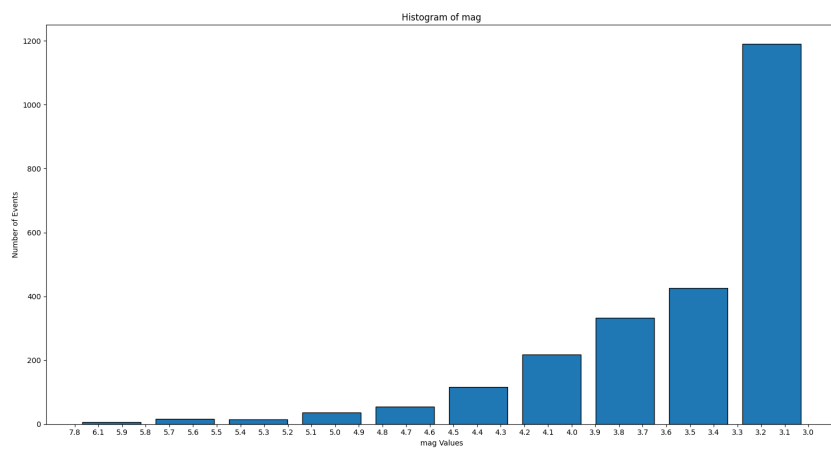
10 pct	<div>Histogram of mag</div>  <table><tr><th>mag Values</th><th>Number of Events</th></tr><tr><td>7.8</td><td>0</td></tr><tr><td>6.1</td><td>0</td></tr><tr><td>5.9</td><td>0</td></tr><tr><td>5.8</td><td>0</td></tr><tr><td>5.7</td><td>0</td></tr><tr><td>5.5</td><td>0</td></tr><tr><td>5.2</td><td>0</td></tr><tr><td>5.0</td><td>0</td></tr><tr><td>4.9</td><td>0</td></tr><tr><td>4.8</td><td>0</td></tr><tr><td>4.7</td><td>0</td></tr><tr><td>4.6</td><td>0</td></tr><tr><td>4.5</td><td>0</td></tr><tr><td>4.4</td><td>0</td></tr><tr><td>4.3</td><td>0</td></tr><tr><td>4.2</td><td>0</td></tr><tr><td>4.1</td><td>0</td></tr><tr><td>4.0</td><td>0</td></tr><tr><td>3.9</td><td>0</td></tr><tr><td>3.8</td><td>0</td></tr><tr><td>3.7</td><td>0</td></tr><tr><td>3.6</td><td>0</td></tr><tr><td>3.5</td><td>0</td></tr><tr><td>3.4</td><td>0</td></tr><tr><td>3.3</td><td>0</td></tr><tr><td>3.2</td><td>0</td></tr><tr><td>3.1</td><td>110</td></tr><tr><td>3.0</td><td>0</td></tr></table>	mag Values	Number of Events	7.8	0	6.1	0	5.9	0	5.8	0	5.7	0	5.5	0	5.2	0	5.0	0	4.9	0	4.8	0	4.7	0	4.6	0	4.5	0	4.4	0	4.3	0	4.2	0	4.1	0	4.0	0	3.9	0	3.8	0	3.7	0	3.6	0	3.5	0	3.4	0	3.3	0	3.2	0	3.1	110	3.0	0	12.70						
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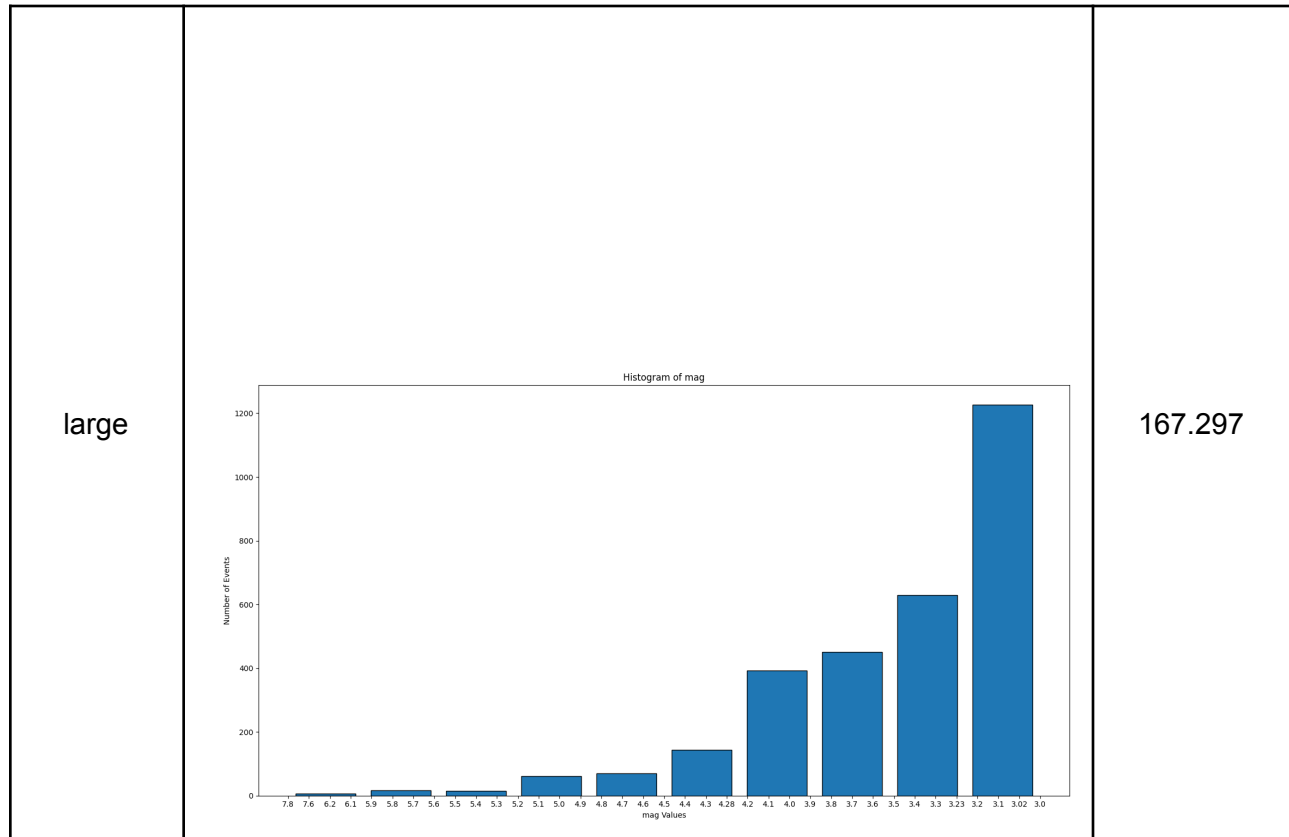


70.96

80 pct



126.23



Graficas

Las gráficas con la representación de las pruebas realizadas.

Análisis

La obtención de los elementos en un Hashmap puede resultar eficiente al tener una complejidad de N , sin embargo para poder obtener los datos correctamente se debe hacer un ordenamiento, esto puede conllevar a un complejidad de $M \log M$. Sin embargo, esto no refleja un cambio muy contundente, en

términos generales el código es eficiente.

