

ANÁLISIS DEL RETO

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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

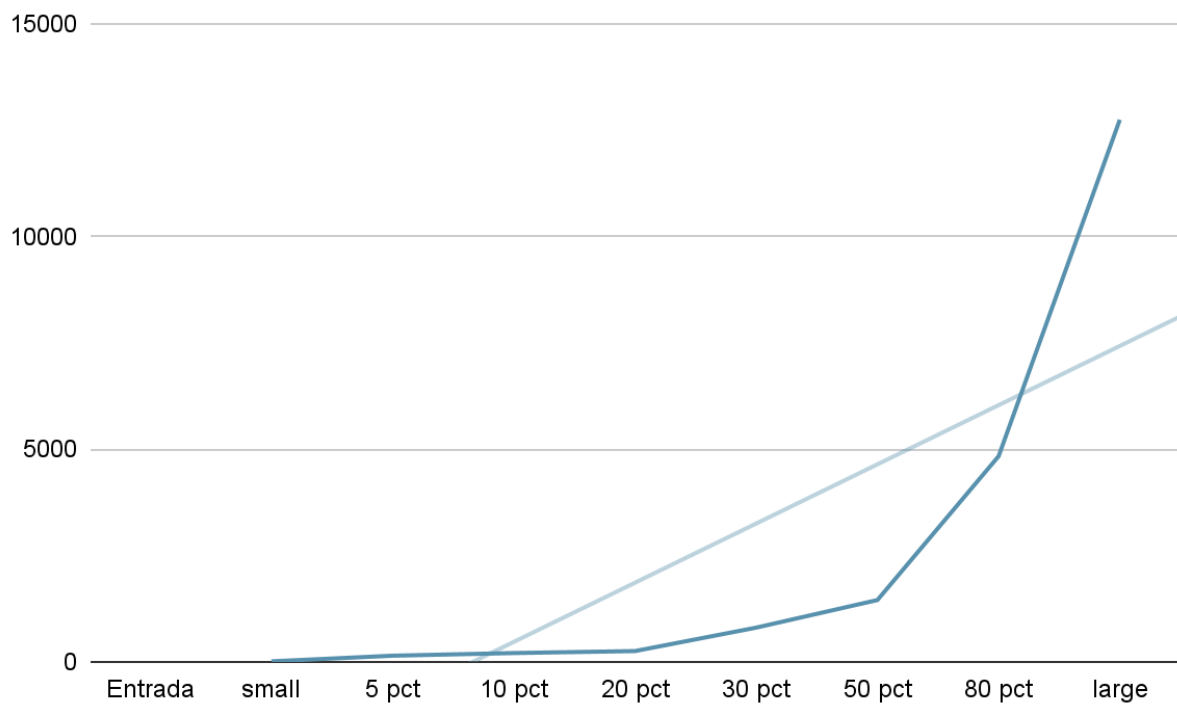
small	total de eventos: 912															12.81		
	time		events	details														
	2004-10-23T08:59:37.350000Z		1	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType		type	code
				5.7	138.866	37.268	10.0	500	77.0	M 5.7 - 6 km ESE of Ojiya, Japan				6.481	mb		earthquake	p00036tw
	2004-10-22T04:54:43.020000Z		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	p00036ty
	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	
				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	
	divenido																	
10 pct	2023-08-14 15:55:11.313000		1	mag	long	lat	depth	sig	gap	nst	title			cdi	mmi	magType	type	code
				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	148.0	M 4.8 - 157 km E of McCarthy, Alaska			3.4	6.127	mr	earthquake	6000kys
	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		mr	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	mrw	earthquake	6000kbt	
207.78	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		mr	earthquake	6000kyd
	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	p00036v5
	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	p00036wp	
207.78	2004-10-23T11:28:44.250000Z		1	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code	
				4.2	138.894	37.308	10.0	271	24.0		M 4.2 - 8 km E of Ojiya, Japan					mb	earthquake	p00036wf
	1999-03-22T03:06:48.700000Z		1	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code	
				3.1	25.89	40.41	10.0	148			M 3.1 - 23 km N of Gökçeada, Turkey					ml	earthquake	p00094yc
	1999-03-21T19:40:16.850000Z		1	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code	
				4.2	110.267	55.82	10.0	271			M 4.2 - 16 km SE of Kichera, Russia					mb	earthquake	p00094xc
	1999-03-21T18:27:18.830000Z		1	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code	
			3.1	-71.923	-33.52	15.4	148			M 3.1 - 29 km W of Cartagena, Chile					ml	earthquake	p00094x6	

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>p0003d9</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>-27.045</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	p0003d9	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	-27.045	-55.822	100.0	259		M 4.1 - South Sandwich Islands region			mb	earthquake	p00094m	Bienvenido															254.37
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			4.3	167.124	-12.796	99.1	284	15.0	M 4.3 - 128 km NNW of Sola, Vanuatu			mb	earthquake	p0003d9																																																																																																																																																																																											
2004-10-23T14:35:59.140000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code																																																																																																																																																																																												
		4.4	149.518	-5.886	65.6	298	11.0	M 4.4 - 44 km N of Kandrian, Papua New Guinea			mb	earthquake	p0003d9																																																																																																																																																																																												
	1999-03-21T09:27:46.420000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code																																																																																																																																																																																											
		3.4	-68.638	-31.226	100.0	178		M 3.4 - 25 km NNW of Albarodón, Argentina			mb	earthquake	p00094u																																																																																																																																																																																												
	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																																																																																																																																																																																												
	1999-03-21T05:15:14.090000Z	1	mag	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code																																																																																																																																																																																											
		4.1	-27.045	-55.822	100.0	259		M 4.1 - South Sandwich Islands region			mb	earthquake	p00094m																																																																																																																																																																																												
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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>-25.055</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>-27.045</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	-25.055	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	-27.045	-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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80 pct	total de eventos: 74521												4837.21		
	time		events		details										
	2004-10-23T17:27:08.200000Z		1												
2004-10-23T16:35:43.990000Z		1													
2004-10-23T16:32:27.710000Z		1													
1999-03-21T09:16:19.960000Z		1													
1999-03-21T09:02:48.190000Z		1													
1999-03-21T05:15:14.090000Z		1													
Bienvenido															

large													12750.25		
	time		events		details										
	2004-10-23T17:27:08.200000Z		1												
2004-10-23T17:15:35.810000Z		1													
2004-10-23T16:35:43.990000Z		1													
1999-03-21T09:02:48.190000Z		1													
1999-03-21T05:18:23.400000Z		1													
1999-03-21T05:15:14.090000Z		1													

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

```
def req_2(analyzer, initialmag, finalmag):  
    """  
    Retorna el numero de crímenes en un rango de fechas.  
    """  
  
    final = lt.newList('ARRAY_LIST')  
    dic = {}  
    lst = om.values(analyzer, initialmag, finalmag)  
    totearthquakes = lt.size(lst)  
  
    events = 0  
    for lstdate in lt.iterator(lst):  
        for j in lt.iterator(lstdate):  
  
            mag = j['mag']  
  
            events += 1  
            dic[mag] = {  
                'mag':mag,  
                'events':1,  
                'details':j  
            }  
            lt.addFirst(final,dic[mag])  
  
    return totearthquakes, final, events
```

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

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 magnitud:	$O(\log(M))$
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 magnitud inicial 3.5 y magnitud final 6.5.

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

Entrada	Tiempo (ms)
small	79.15
5 pct	298.87
10 pct	1571.45
20 pct	4504.60
30 pct	6616.65
50 pct	14659.79
80 pct	49492.91
large	61633.50

Tablas de datos

Las tablas con la recopilación de datos de las pruebas.

Muestra	Salida	Tiempo

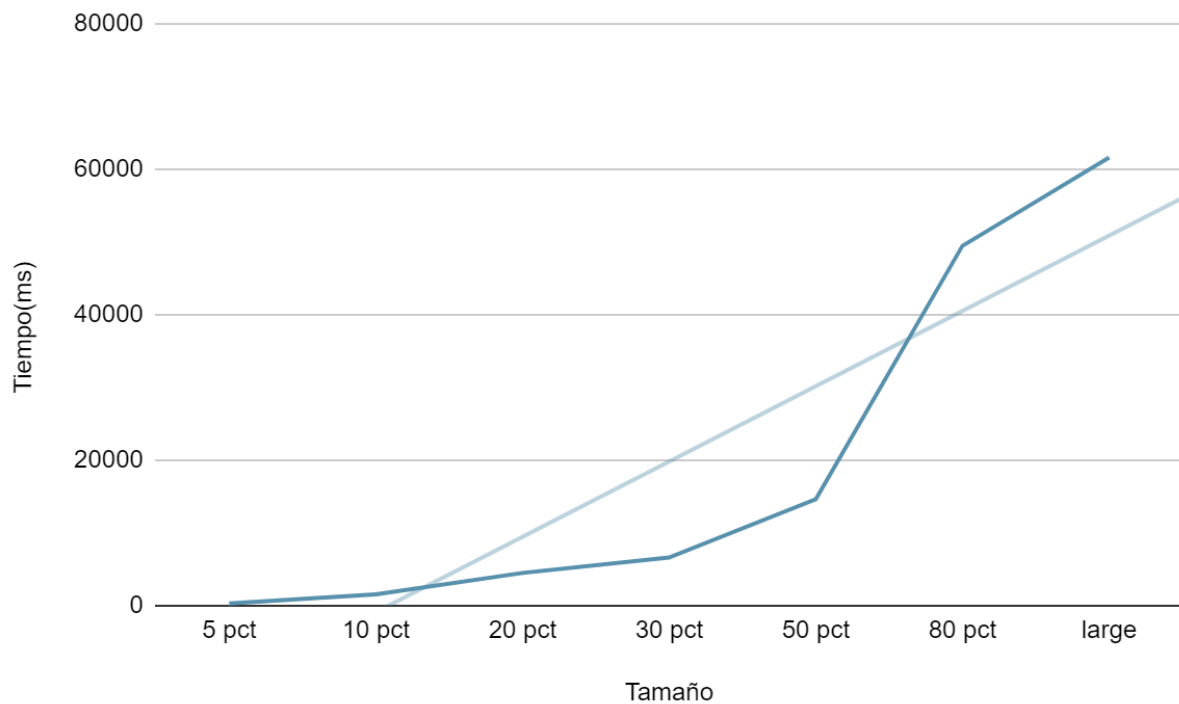
small	<table><tr><th>mag</th><th>events</th><th colspan="13">details</th></tr><tr><td>6.5</td><td>1</td><td>time</td><td>long</td><td>lat</td><td>depth</td><td>sig</td><td>nst</td><td>title</td><td>cdi</td><td>mmi</td><td>magType</td><td>type</td><td>code</td></tr><tr><td></td><td></td><td>2023-03-21T16:47:23.626000Z</td><td>70.943</td><td>36.523</td><td>192.0</td><td>1350</td><td>164.0</td><td>M 6.5 - 40 km SSE of Jurm, Afghanistan</td><td>7.0</td><td>4.693</td><td>mw</td><td>earthquake</td><td>7000jln7</td></tr><tr><td>6.5</td><td>1</td><td>time</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>2000-01-09T21:54:40.490000Z</td><td>174.37</td><td>-18.823</td><td>33.0</td><td>650</td><td></td><td>M 6.5 - Fiji region</td><td></td><td></td><td>mab</td><td>earthquake</td><td>p0000kz2</td></tr><tr><td>6.5</td><td>1</td><td>time</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>2023-03-21T16:47:23.626000Z</td><td>70.943</td><td>36.523</td><td>192.0</td><td>1350</td><td>164.0</td><td>M 6.5 - 40 km SSE of Jurm, Afghanistan</td><td>7.0</td><td>4.693</td><td>mw</td><td>earthquake</td><td>7000jln7</td></tr><tr><td>3.5</td><td>1</td><td>time</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>2016-10-26T06:19:03.500000Z</td><td>-97.5195</td><td>36.3315</td><td>7.988</td><td>189</td><td></td><td>M 3.5 - 6 km ENE of Covington, Oklahoma</td><td>3.4</td><td>4.01</td><td>ml</td><td>earthquake</td><td>20007gst</td></tr><tr><td>3.5</td><td>1</td><td>time</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>1998-11-15T12:41:12.500000Z</td><td>26.0</td><td>39.47</td><td>11.0</td><td>188</td><td></td><td>M 3.5 - 18 km NW of Mithymna, Greece</td><td></td><td></td><td>ml</td><td>earthquake</td><td>p0000jyb</td></tr><tr><td>3.5</td><td>1</td><td>time</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>1993-01-21T07:35:52.910000Z</td><td>-142.738</td><td>58.112</td><td>10.0</td><td>188</td><td></td><td>M 3.5 - 236 km SW of Yakutat, Alaska</td><td></td><td></td><td>mb</td><td>earthquake</td><td>p0005s16</td></tr></table>	mag	events	details													6.5	1	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			2023-03-21T16:47:23.626000Z	70.943	36.523	192.0	1350	164.0	M 6.5 - 40 km SSE of Jurm, Afghanistan	7.0	4.693	mw	earthquake	7000jln7	6.5	1	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			2000-01-09T21:54:40.490000Z	174.37	-18.823	33.0	650		M 6.5 - Fiji region			mab	earthquake	p0000kz2	6.5	1	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			2023-03-21T16:47:23.626000Z	70.943	36.523	192.0	1350	164.0	M 6.5 - 40 km SSE of Jurm, Afghanistan	7.0	4.693	mw	earthquake	7000jln7	3.5	1	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			2016-10-26T06:19:03.500000Z	-97.5195	36.3315	7.988	189		M 3.5 - 6 km ENE of Covington, Oklahoma	3.4	4.01	ml	earthquake	20007gst	3.5	1	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			1998-11-15T12:41:12.500000Z	26.0	39.47	11.0	188		M 3.5 - 18 km NW of Mithymna, Greece			ml	earthquake	p0000jyb	3.5	1	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			1993-01-21T07:35:52.910000Z	-142.738	58.112	10.0	188		M 3.5 - 236 km SW of Yakutat, Alaska			mb	earthquake	p0005s16	79.15
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		1993-01-21T07:35:52.910000Z	-142.738	58.112	10.0	188		M 3.5 - 236 km SW of Yakutat, Alaska			mb	earthquake	p0005s16																																																																																																																																																																												
5 pct	<table><tr><th>mag</th><th>events</th><th colspan="13">details</th></tr><tr><td>6.5</td><td>1</td><td>time</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>2004-05-29T20:56:09.600000Z</td><td>141.406</td><td>34.251</td><td>16.0</td><td>650</td><td>352.0</td><td>M 6.5 - 140 km SE of Katsura, Japan</td><td></td><td></td><td>mab</td><td>earthquake</td><td>p0000cjs</td></tr><tr><td>6.5</td><td>1</td><td>time</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>2010-11-10T04:05:24.410000Z</td><td>96.394</td><td>-45.464</td><td>10.0</td><td>650</td><td>267.0</td><td>M 6.5 - southeast Indian Ridge</td><td></td><td></td><td>muc</td><td>earthquake</td><td>p0000pc8</td></tr><tr><td>6.5</td><td>1</td><td>time</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>2000-01-09T21:54:40.490000Z</td><td>174.37</td><td>-18.823</td><td>33.0</td><td>650</td><td></td><td>M 6.5 - Fiji region</td><td></td><td></td><td>mab</td><td>earthquake</td><td>p0000kz2</td></tr><tr><td>3.5</td><td>1</td><td>time</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>2006-03-20T01:34:11.500000Z</td><td>-71.516</td><td>-32.578</td><td>47.1</td><td>188</td><td>12.0</td><td>M 3.5 - 30 km WSW of La Ligua, Chile</td><td></td><td></td><td>ml</td><td>earthquake</td><td>p0000d5x</td></tr><tr><td>3.5</td><td>1</td><td>time</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>1995-12-01T23:11:20.010000Z</td><td>-122.28633</td><td>37.929165</td><td>8.600</td><td>188</td><td>81.0</td><td>M 3.5 - 2 km NW of Kensington, California</td><td></td><td></td><td>ml</td><td>earthquake</td><td>30001030</td></tr><tr><td>3.5</td><td>1</td><td>time</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>2006-01-11T06:27:21.500000Z</td><td>26.005</td><td>38.857</td><td>11.1</td><td>188</td><td>9.0</td><td>M 3.5 - 29 km SSW of Polichnitos, Greece</td><td></td><td></td><td>ml</td><td>earthquake</td><td>p000fms0</td></tr></table>	mag	events	details													6.5	1	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			2004-05-29T20:56:09.600000Z	141.406	34.251	16.0	650	352.0	M 6.5 - 140 km SE of Katsura, Japan			mab	earthquake	p0000cjs	6.5	1	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			2010-11-10T04:05:24.410000Z	96.394	-45.464	10.0	650	267.0	M 6.5 - southeast Indian Ridge			muc	earthquake	p0000pc8	6.5	1	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			2000-01-09T21:54:40.490000Z	174.37	-18.823	33.0	650		M 6.5 - Fiji region			mab	earthquake	p0000kz2	3.5	1	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			2006-03-20T01:34:11.500000Z	-71.516	-32.578	47.1	188	12.0	M 3.5 - 30 km WSW of La Ligua, Chile			ml	earthquake	p0000d5x	3.5	1	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			1995-12-01T23:11:20.010000Z	-122.28633	37.929165	8.600	188	81.0	M 3.5 - 2 km NW of Kensington, California			ml	earthquake	30001030	3.5	1	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code			2006-01-11T06:27:21.500000Z	26.005	38.857	11.1	188	9.0	M 3.5 - 29 km SSW of Polichnitos, Greece			ml	earthquake	p000fms0	298.87
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20 pct	<table><tr><th colspan="2">mag events</th><th colspan="12">details</th></tr><tr><th>mag</th><th>events</th><th>time</th><th>long</th><th>lat</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>6.5</td><td>1</td><td>2002-03-28T04:56:22.000000Z</td><td>-68.329</td><td>-21.663</td><td>125.1</td><td>650</td><td>486.0</td><td>M 6.5 - 107 km NE of Calama, Chile</td><td>5.189</td><td>nuc</td><td>earthquake</td><td>p000b17z</td><td></td></tr><tr><td>6.5</td><td>1</td><td>1995-04-14T13:15:17.350000Z</td><td>-20.074</td><td>-60.774</td><td>10.5</td><td>650</td><td></td><td>M 6.5 - east of the South Sandwich Islands</td><td></td><td>nwb</td><td>earthquake</td><td>p000bvqj</td><td></td></tr><tr><td>6.5</td><td>1</td><td>1997-08-29T06:54:00.240000Z</td><td>-175.576</td><td>-15.235</td><td>33.0</td><td>650</td><td></td><td>M 6.5 - 206 km WNW of Hihifo, Tonga</td><td></td><td>nwb</td><td>earthquake</td><td>p000b6u2</td><td></td></tr><tr><td>3.5</td><td>1</td><td>2016-01-01T16:57:49.300000Z</td><td>-68.6453</td><td>18.2663</td><td>144.0</td><td>188</td><td>13.0</td><td>M 3.5 - 12 km SSW of Boca de Yuma, Dominican Republic</td><td>1.0</td><td></td><td>nd</td><td>earthquake</td><td>16001005</td><td></td></tr></table>	mag events		details												mag	events	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code	6.5	1	2002-03-28T04:56:22.000000Z	-68.329	-21.663	125.1	650	486.0	M 6.5 - 107 km NE of Calama, Chile	5.189	nuc	earthquake	p000b17z		6.5	1	1995-04-14T13:15:17.350000Z	-20.074	-60.774	10.5	650		M 6.5 - east of the South Sandwich Islands		nwb	earthquake	p000bvqj		6.5	1	1997-08-29T06:54:00.240000Z	-175.576	-15.235	33.0	650		M 6.5 - 206 km WNW of Hihifo, Tonga		nwb	earthquake	p000b6u2		3.5	1	2016-01-01T16:57:49.300000Z	-68.6453	18.2663	144.0	188	13.0	M 3.5 - 12 km SSW of Boca de Yuma, Dominican Republic	1.0		nd	earthquake	16001005		4504.60
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3.5	1	2021-05-22T01:40:27.960000Z	-104.29757	31.687548	6.674354	189	29.0	M 3.5 - 54 km S of Whites City, New Mexico	2.0	4.068	ml	earthquake	2021jctg																																																																										
3.5	1	2016-02-05T18:28:42.760000Z	-145.8129	59.5548	25.4	188		M 3.5 - 110 km S of Cordova, Alaska		ml	earthquake	@161nu4ek																																																																											
30 pct	<table><tr><th colspan="2">mag events</th><th colspan="12">details</th></tr><tr><th>mag</th><th>events</th><th>time</th><th>long</th><th>lat</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>6.5</td><td>1</td><td>2010-09-03T11:16:06.600000Z</td><td>-175.67</td><td>51.451</td><td>23.5</td><td>650</td><td>583.0</td><td>M 6.5 - 70 km SE of Adak, Alaska</td><td></td><td>nuc</td><td>earthquake</td><td>p000h3k</td><td></td></tr><tr><td>6.5</td><td>1</td><td>2014-03-02T20:11:21.430000Z</td><td>127.3674</td><td>27.4312</td><td>119.0</td><td>668</td><td></td><td>M 6.5 - 109 km W of Nago, Japan</td><td>4.2</td><td>5.43</td><td>nsw</td><td>earthquake</td><td>b00bzcmn</td><td></td></tr><tr><td>6.5</td><td>1</td><td>2013-04-23T23:14:40.630000Z</td><td>152.127</td><td>-2.898</td><td>10.0</td><td>650</td><td>264.0</td><td>M 6.5 - 33 km N of Raiwal, Papua New Guinea</td><td>5.502</td><td>nsw</td><td>earthquake</td><td>b00bzgn8</td><td></td></tr><tr><td>3.5</td><td>1</td><td>2005-11-21T03:26:47.060000Z</td><td>-164.044</td><td>53.849</td><td>51.8</td><td>188</td><td>28.0</td><td>M 3.5 - 117 km ESE of Akutan, Alaska</td><td></td><td>ml</td><td>earthquake</td><td>p000u4nd</td><td></td></tr></table>	mag events		details												mag	events	time	long	lat	depth	sig	nst	title	cdi	mmi	magType	type	code	6.5	1	2010-09-03T11:16:06.600000Z	-175.67	51.451	23.5	650	583.0	M 6.5 - 70 km SE of Adak, Alaska		nuc	earthquake	p000h3k		6.5	1	2014-03-02T20:11:21.430000Z	127.3674	27.4312	119.0	668		M 6.5 - 109 km W of Nago, Japan	4.2	5.43	nsw	earthquake	b00bzcmn		6.5	1	2013-04-23T23:14:40.630000Z	152.127	-2.898	10.0	650	264.0	M 6.5 - 33 km N of Raiwal, Papua New Guinea	5.502	nsw	earthquake	b00bzgn8		3.5	1	2005-11-21T03:26:47.060000Z	-164.044	53.849	51.8	188	28.0	M 3.5 - 117 km ESE of Akutan, Alaska		ml	earthquake	p000u4nd		6616.65
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	6.5	1	2010-09-03T11:16:06.600000Z	-175.67	51.451	23.5	650	583.0	M 6.5 - 70 km SE of Adak, Alaska		nuc	earthquake	p000h3k																																																																										
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3.5	1	2005-11-21T03:26:47.060000Z	-164.044	53.849	51.8	188	28.0	M 3.5 - 117 km ESE of Akutan, Alaska		ml	earthquake	p000u4nd																																																																											
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3.5	1	2006-01-24T16:07:34.000000Z	55.79	26.68	18.0	188	12.0	M 3.5 - 56 km WSW of Qeshm, Iran		nblg	earthquake	p00003r2																																																																											
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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, $O(N^2)$.

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

```
def req_3(min_mag,max_depth,analyzer):  
    """  
    Función que soluciona el requerimiento 3  
    """  
  
    final = lt.newList('ARRAY_LIST')  
    newList = lt.newList('ARRAY_LIST')  
    hp = heap.newHeap(compare_dicts)  
    dic = {}  
    data_structs = analyzer['mag']  
  
    x = om.values(data_structs,float(min_mag), float(om.maxKey(data_structs)))  
  
    for i in lt.iterator(x):  
        f = om.values(i,float(om.minKey(i)),float(max_depth))  
        for j in lt.iterator(f):  
            for z in lt.iterator(j):  
                if len(z['depth'])>0:  
                    if float(z['depth'])>0:  
                        lt.addFirst(newList,z)  
  
    sa.sort(newList,compareReq3)  
    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
```

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.

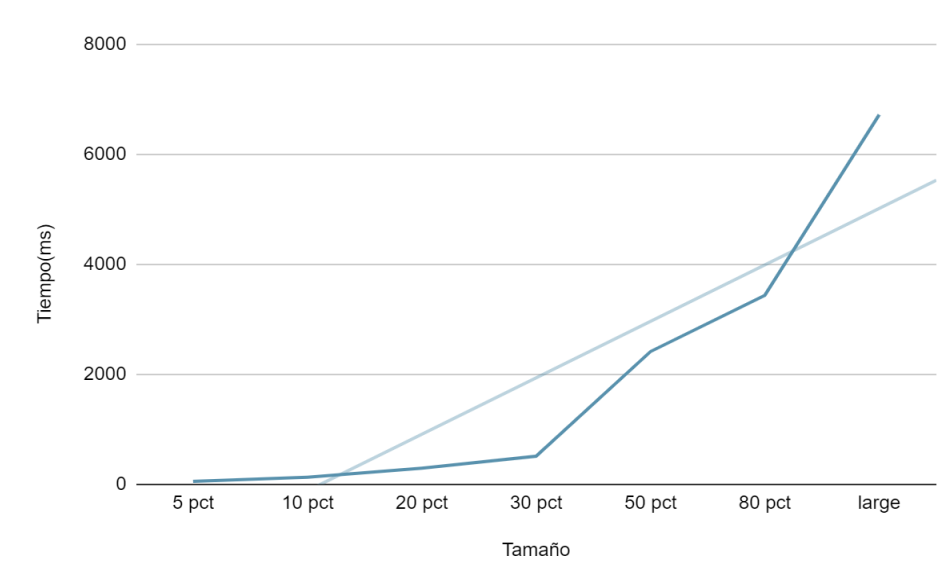
Muestra	Salida	Tiempo																																																																																																																																																																					
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Southwest Indian Ridge</td><td></td><td>0.0</td><td>mw</td><td>earthquake</td><td>6000kw2r</td></tr></table></td></tr><tr><td>2023-06-29T23:43:39.818000Z</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>-0.4824</td><td>-28.7033</td><td>10.0</td><td>340</td><td>39.0</td><td>M 4.7 - central Mid-Atlantic Ridge</td><td></td><td></td><td>mb</td><td>earthquake</td><td>6000kqpb</td></tr></table></td></tr><tr><td>2023-06-28T04:21:28.983000Z</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>5.5</td><td>-16.2722</td><td>178.5024</td><td>10.0</td><td>466</td><td>73.0</td><td>M 5.5 - 93 km W of Labasa, Fiji</td><td>5.0</td><td>4.388</td><td>mw</td><td>earthquake</td><td>6000knjr</td></tr></table></td></tr><tr><td>2023-06-21T15:24:43.550000Z</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>-66.4494</td><td>-27.0376</td><td>10.0</td><td>416</td><td>98.0</td><td>M 5.2 - 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74 km NE of Sanana, Indonesia</td><td></td><td></td><td>mb</td><td>earthquake</td><td>7000kr5y</td></tr></table></td></tr><tr><td>2023-08-24T14:13:38.432000Z</td><td>1</td><td colspan="12"><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>42.3325</td><td>-29.2365</td><td>10.0</td><td>340</td><td>38.0</td><td>M 4.7 - Azores Islands region</td><td></td><td></td><td>mb</td><td>earthquake</td><td>7000kqns</td></tr></table></td></tr><tr><td>2023-08-24T05:35:24.685000Z</td><td>1</td><td colspan="12"><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>38.2129</td><td>38.1738</td><td>10.0</td><td>356</td><td>76.0</td><td>M 4.8 - 11 km SW of Yesilyurt, Turkey</td><td>4.6</td><td></td><td>mer</td><td>earthquake</td><td>7000kqky</td></tr></table></td></tr><tr><td></td><td>2023-08-24T05:35:24.685000Z</td><td>1</td><td colspan="12"><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>38.2129</td><td>38.1738</td><td>10.0</td><td>356</td><td>76.0</td><td>M 4.8 - 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Tanzania</td><td></td><td></td><td>mb</td><td>earthquake</td><td>7000krch</td></tr></table>												mag	lat	long	depth	sig	nst	title	cdi	mmi	magType	type	code	4.7	-5.4883	34.8839	10.0	340	17.0	M 4.7 - Tanzania			mb	earthquake	7000krch	2023-08-26T11:16:25.184000Z	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>4.7</td><td>-1.5869</td><td>126.4526</td><td>10.0</td><td>340</td><td>28.0</td><td>M 4.7 - 74 km NE of Sanana, Indonesia</td><td></td><td></td><td>mb</td><td>earthquake</td><td>7000kr5y</td></tr></table>												mag	lat	long	depth	sig	nst	title	cdi	mmi	magType	type	code	4.7	-1.5869	126.4526	10.0	340	28.0	M 4.7 - 74 km NE of Sanana, Indonesia			mb	earthquake	7000kr5y	2023-08-24T14:13:38.432000Z	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>4.7</td><td>42.3325</td><td>-29.2365</td><td>10.0</td><td>340</td><td>38.0</td><td>M 4.7 - 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west of Macquarie Island</td><td></td><td></td><td>new</td><td>earthquake</td><td>7000kr5r</td></tr></table></td></tr><tr><td>2023-08-26T01:48:54.945000Z</td><td>1</td><td colspan="12"><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>51.646</td><td>-167.3086</td><td>10.0</td><td>416</td><td>124.0</td><td>M 5.2 - 178 km SE of Nihilinski, Alaska</td><td></td><td>2.455</td><td>new</td><td>earthquake</td><td>7000kqjf</td></tr></table></td></tr><tr><td>2023-08-19T23:10:59.430000Z</td><td>1</td><td colspan="12"><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>5.4</td><td>14.895</td><td>144.3776</td><td>10.0</td><td>440</td><td>75.0</td><td>M 5.4 - 133 km W of San Jose Village, Northern Mariana Islands</td><td>3.1</td><td>3.387</td><td>new</td><td>earthquake</td><td>7000kpiw</td></tr></table></td></tr><tr><td>2023-08-19T14:40:08.480000Z</td><td>1</td><td colspan="12"><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>5.0</td><td>30.3389</td><td>94.7567</td><td>10.0</td><td>385</td><td>52.0</td><td>M 5.0 - 203 km W of Shi Yoni, India</td><td></td><td></td><td>mb</td><td>earthquake</td><td>7000kqpp</td></tr></table></td></tr></table>	time	events	details												2023-08-27T13:53:37.564000Z	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>4.7</td><td>-5.4883</td><td>34.8839</td><td>10.0</td><td>340</td><td>17.0</td><td>M 4.7 - Tanzania</td><td></td><td></td><td>mb</td><td>earthquake</td><td>7000krch</td></tr></table>												mag	lat	long	depth	sig	nst	title	cdi	mmi	magType	type	code	4.7	-5.4883	34.8839	10.0	340	17.0	M 4.7 - Tanzania			mb	earthquake	7000krch	2023-08-26T11:16:25.184000Z	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>4.7</td><td>-1.5869</td><td>126.4526</td><td>10.0</td><td>340</td><td>28.0</td><td>M 4.7 - 74 km NE of Sanana, Indonesia</td><td></td><td></td><td>mb</td><td>earthquake</td><td>7000kr5y</td></tr></table>												mag	lat	long	depth	sig	nst	title	cdi	mmi	magType	type	code	4.7	-1.5869	126.4526	10.0	340	28.0	M 4.7 - 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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>ml</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>6000u09</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>ml</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 NW 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>ml</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>1390</td><td>12.0</td><td>164.0</td><td>M 6.5 - 40 km SSE of Jura, Afghanistan</td><td>7.0</td><td>4.693</td><td>mw</td><td>earthquake</td><td>7000j1n7</td></tr></table></td></tr><tr><td>2022-06-08 00:58:00.040000</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>ml</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>5.4</td><td>146.0531</td><td>10.3994</td><td>135.75</td><td>449</td><td>28.0</td><td>139.0</td><td>M 5.4 - Pagan region, Northern Mariana Islands</td><td>2.2</td><td>3.8</td><td>mw</td><td>earthquake</td><td>7000hfrk</td></tr></table></td></tr><tr><td>2022-05-19 15:29:15.118000</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>ml</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>5.2</td><td>126.4884</td><td>1.7136</td><td>10.59</td><td>417</td><td>31.0</td><td>215.0</td><td>M 5.2 - 149 km NE of Ternate, Indonesia</td><td>3.1</td><td></td><td>mw</td><td>earthquake</td><td>6000neci</td></tr></table></td></tr><tr><td>2022-05-11 17:27:41.475000</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>ml</th><th>magType</th><th>type</th><th>code</th></tr><tr><td>4.9</td><td>95.0484</td><td>4.6896</td><td>58.82</td><td>369</td><td>39.0</td><td>255.0</td><td>M 4.9 - 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Fiji region</td><td></td><td></td><td>mb</td><td>earthquake</td><td>6000knn</td></tr></table>	mag	long	lat	depth	sig	gap	nst	title	cdi	ml	magType	type	code	4.5	-170.7736	-17.3749	556.051	312	44.0	54.0	M 4.5 - Fiji region			mb	earthquake	6000knn	77.78
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12395.21

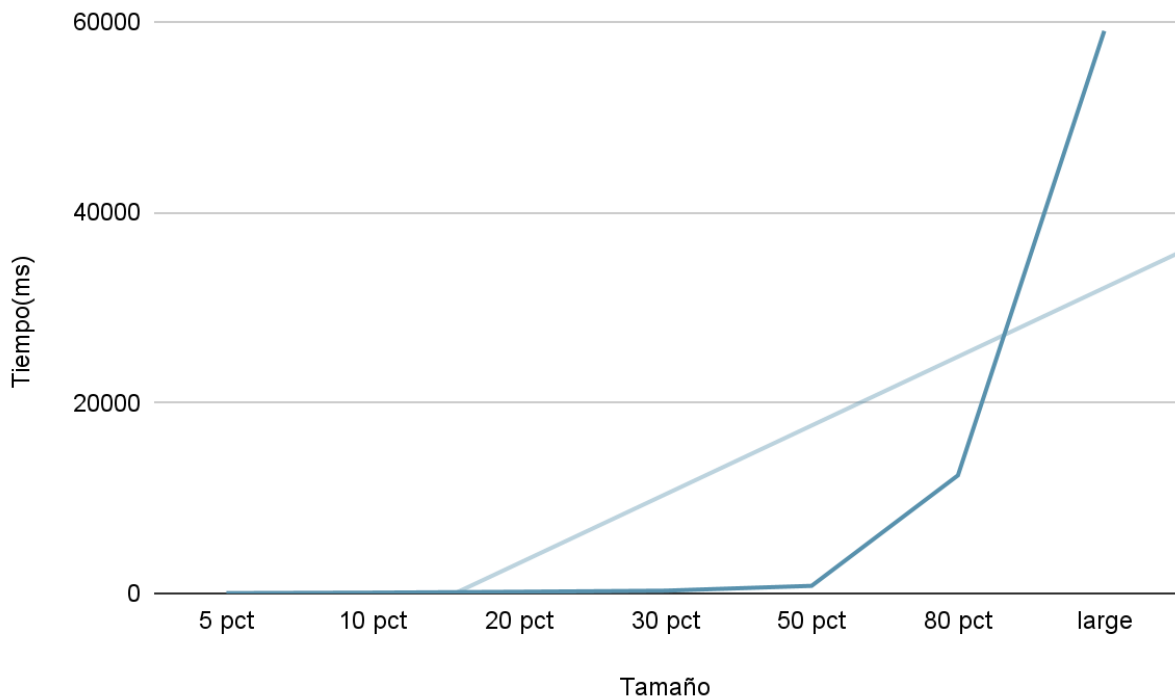
large

time	events	details													
2023-08-28 20:08:06.515000	1	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code
		5.6	117.2147	-7.0459	477.481	485	75.0	M 5.6 - 153 km N of Pototano, Indonesia			3.8	1.847	mb	earthquake	7000krk4
2023-08-28 20:06:53.252000	1	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code
		5.4	116.6179	-6.8134	517.374	449	76.0	M 5.4 - 180 km NNE of Gili Air, Indonesia			1.393	mb	earthquake	7000krn7	
2023-08-28 19:55:31.821000	1	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code
		7.1	116.548	-6.7876	513.545	1016	111.0	M 7.1 - 181 km NNE of Gili Air, Indonesia			4.8	3.872	mw	earthquake	7000krjx
2023-08-21 05:25:16.970000	1	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code
		3.94	-119.1915	34.409668	1.83	320	105.0	M 3.9 - 6 km SE of Ojai, CA			3.6	4.124	mw	earthquake	39646098
2023-08-20 22:18:16.380000	1	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code
		3.94	-119.19217	34.411835	9.79	377	100.0	M 3.9 - 6 km SE of Ojai, CA			5.6	4.679	mw	earthquake	39645626
2023-08-20 22:08:52.590000	1	mag	long	lat	depth	sig	nst	title			cdi	mmi	magType	type	code
		3.66	-119.168	34.432167	1.63	312	98.0	M 3.7 - 7 km ESE of Ojai, CA			5.6	4.419	mw	earthquake	39645586

59070.25

59070.25

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 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.

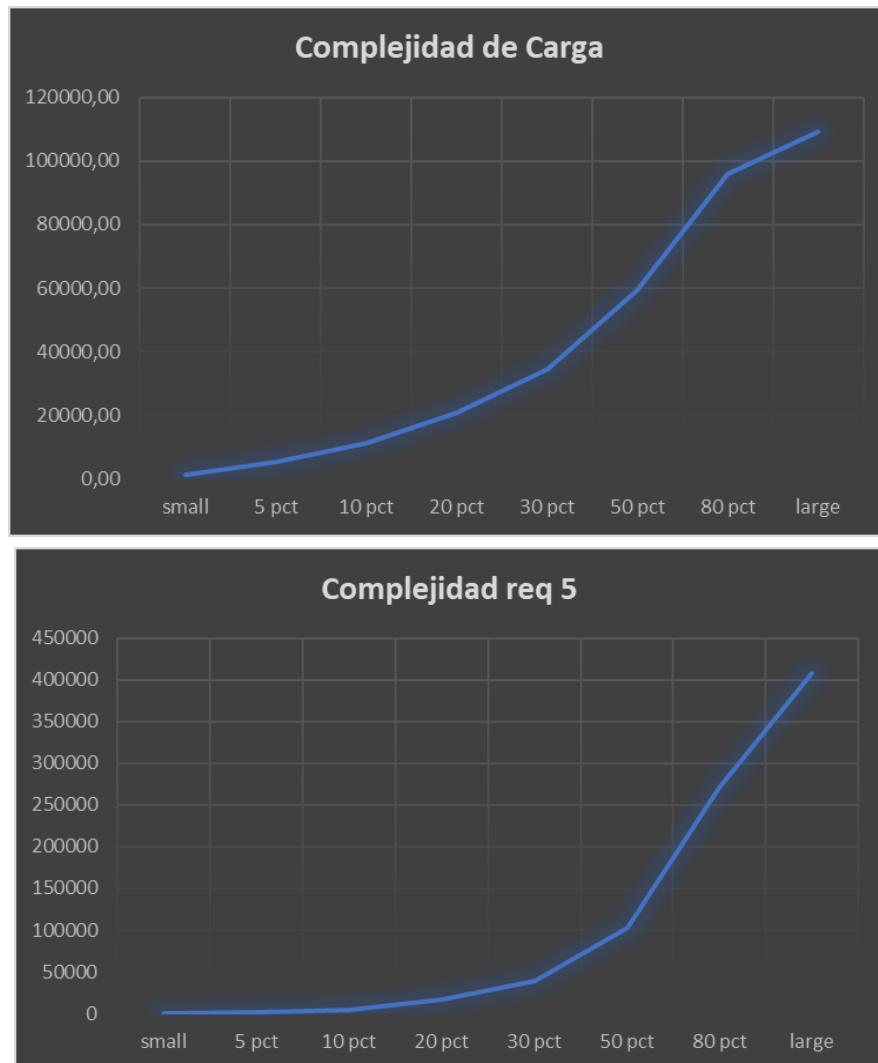
Muest	Salida	Tiempo

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 - 132 km SSE of Seld 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>176.7607</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>1000b0ae</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 Niniaki, Alaska</td><td></td><td></td><td>ml</td><td>earthquake</td><td>1000b0e0</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>-155.8304</td><td>19.745</td><td>30.300</td><td>128</td><td>38.0</td><td>H 3.0 - 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	2023-08-28 20:06:53.252000	1 <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>5.4</td><td>116.6179</td><td>-6.8134</td><td>517.334</td><td>449</td><td>76.0</td><td>M 5.4 - 180 km NE of Gili Air, Indonesia</td><td></td><td>1.393</td><td>mb</td><td>earthquake</td><td>7000kr7</td></tr></table>	mag	long	lat	depth	sig	nst	title	cdi	ml	magType	type	code	5.4	116.6179	-6.8134	517.334	449	76.0	M 5.4 - 180 km NE of Gili Air, Indonesia		1.393	mb	earthquake	7000kr7																																																																																																																																																			
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2023-08-28 19:55:31.821000	1 <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>7.1</td><td>116.540</td><td>-6.7876</td><td>513.545</td><td>1856</td><td>111.0</td><td>M 7.1 - 181 km NE of Gili Air, Indonesia</td><td>4.8</td><td>3.872</td><td>mw</td><td>earthquake</td><td>7000kr3</td></tr></table>	mag	long	lat	depth	sig	nst	title	cdi	ml	magType	type	code	7.1	116.540	-6.7876	513.545	1856	111.0	M 7.1 - 181 km NE of Gili Air, Indonesia	4.8	3.872	mw	earthquake	7000kr3																																																																																																																																																				
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1993-02-19 07:27:25.540000	1 <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>3.18</td><td>-156.16267</td><td>19.824313</td><td>31.996</td><td>176</td><td>44.0</td><td>M 3.4 - 21 km WSW of Kalaea, Hawaii</td><td></td><td></td><td>ml</td><td>earthquake</td><td>739612</td></tr></table>	mag	long	lat	depth	sig	nst	title	cdi	ml	magType	type	code	3.18	-156.16267	19.824313	31.996	176	44.0	M 3.4 - 21 km WSW of Kalaea, Hawaii			ml	earthquake	739612																																																																																																																																																				
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1993-02-04 18:02:09.510000	1 <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>3.04</td><td>-155.32317</td><td>19.254168</td><td>31.887</td><td>142</td><td>46.0</td><td>M 3.0 - 17 km ENE of Pihala, Hawaii</td><td></td><td></td><td>ml</td><td>earthquake</td><td>735415</td></tr></table>	mag	long	lat	depth	sig	nst	title	cdi	ml	magType	type	code	3.04	-155.32317	19.254168	31.887	142	46.0	M 3.0 - 17 km ENE of Pihala, Hawaii			ml	earthquake	735415																																																																																																																																																				
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1993-01-14 00:07:23.040000	1 <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>3.33</td><td>-154.76883</td><td>19.304832</td><td>50.317</td><td>171</td><td>43.0</td><td>M 3.3 - 24 km SE of Lailani Estates, Hawaii</td><td></td><td></td><td>ml</td><td>earthquake</td><td>731267</td></tr></table>	mag	long	lat	depth	sig	nst	title	cdi	ml	magType	type	code	3.33	-154.76883	19.304832	50.317	171	43.0	M 3.3 - 24 km SE of Lailani Estates, Hawaii			ml	earthquake	731267																																																																																																																																																				
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El tiempo fue de: 407973.5371888881																																																																																																																																																																													

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)

<code>temblor =m.get(data_structs,year)</code> Retorna el valor de una pareja de un Map	$O(1)$
<code>for j in lt.iterator(temblores):</code>	$O(n)$
<code>merg.sort(array,compareDates3)</code>	$O(n(\log(n)))$
<code>lt.addLast(array,j)</code> 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

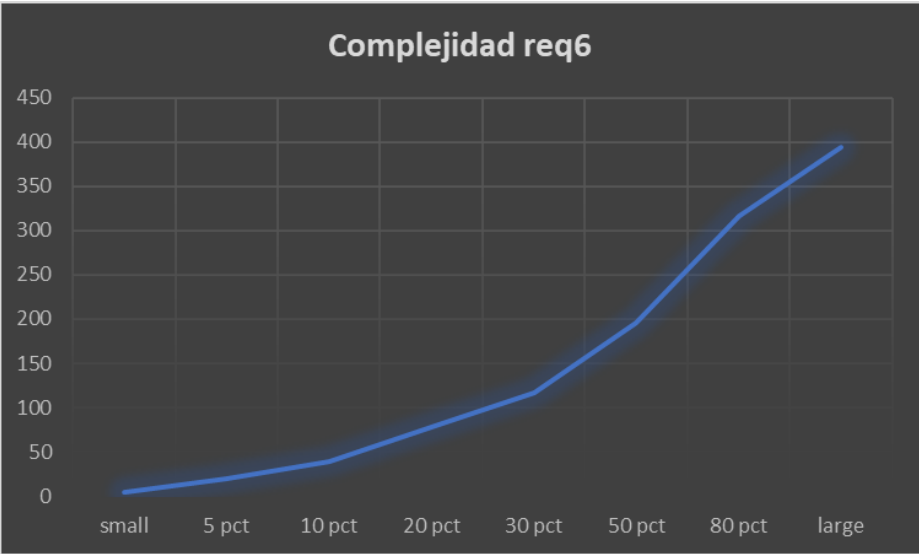
Las tablas con la recopilación de datos de las pruebas.

Muestra	Salida	Tiemp

50 pct	<pre> 2022-05-05 11:00 event time mag lat long depth sig gap distancia net title col med magType type code 2022-05-05 11:00:21 7.2 34.9026 -79.2028 236.8 676 48.8 2256.768 344.8 M 7.2 - 38 km W of A 7.3 5.306 me earthquake 7000000 2022-05-05 11:01:19 4.30000 event time event 2022-05-05 11:01:21 4.30000 1 mag lat long depth sig gap distancia net title col med magType type code 4.3 35.7728 -79.8325 35.8 288 35.8 1567.72 M 4.3 - 34 km W of Sordela, Haiti 5.4 m earthquake 7000000 2022-05-05 11:01:35 4.50000 1 mag lat long depth sig gap distancia net title col med magType type code 4.5 35.9492 -66.7988 33.8 339 211.8 1764.477 26.8 M 4.5 - 48 km N of Carrizosa, Puerto Rico 2.8 m earthquake 202200000 2022-05-05 11:31:19 4.50000 1 mag lat long depth sig gap distancia net title col med magType type code 4.5 35.2000 -63.8307 38.8 328 141.8 1768.888 M 4.5 - Meru of San Sebastian Republic m earthquake 7000000 2022-05-05 18:31:19 4.70000 1 mag lat long depth sig gap distancia net title col med magType type code 4.7 35.3886 -47.1333 38.8 388 1788.458 38.8 M 4.7 - 76 km N of Sabana, Puerto Rico 2.8 m earthquake 202200000 2022-05-05 22:31:19 3.80000 1 mag lat long depth sig gap distancia net title col med magType type code 4.3 34.4888 -47.8988 35.8 288 175.8 2338.236 M 4.3 - 3 km SE of Pimentes de San Luis, Mexico m earthquake 7000000 2022-05-05 22:35:0000000237 </pre>	195.89
80 pct	<pre> 2022-05-05 12:00 event time mag lat long depth sig gap distancia net title col med magType type code 2022-05-05 12:00:21 7.2 34.9026 -79.2028 236.8 676 48.8 2256.768 344.8 M 7.2 - 38 km W of A 7.3 5.306 me earthquake 7000000 2022-05-05 17:01:19 4.30000 event time event 2022-05-05 17:01:21 4.30000 1 mag lat long depth sig gap distancia net title col med magType type code 4.3 35.8383 -88.9888 23.42 288 38.8 1338.634 M 4.3 - 33 km SSE of La Huaca, Peru m earthquake 7000000 2022-05-05 18:01:19 4.50000 1 mag lat long depth sig gap distancia net title col med magType type code 4.3 35.7728 -79.8325 35.8 288 35.8 1567.72 M 4.3 - 34 km W of Sordela, Haiti 5.4 m earthquake 7000000 2022-05-05 18:15:19 4.70000 1 mag lat long depth sig gap distancia net title col med magType type code 4.64 35.2000 -67.2000 38.8 328 1779.207 38.8 M 4.6 - 88 km SSE of San Antonio, Puerto Rico m earthquake 202200000 2022-05-05 22:31:19 4.50000 1 mag lat long depth sig gap distancia net title col med magType type code 4.7 -23.3758 -68.45 137.52 388 34.8 2963.872 M 4.7 - 135 km W of Calama, Chile m earthquake 7000000 2022-05-05 22:31:47 3.80000 1 mag lat long depth sig gap distancia net title col med magType type code 4.3 35.4533 -66.8888 33.8 333 254.8 1886.879 33.8 M 4.3 - 387 km N of Brown, Puerto Rico m earthquake 202200000 2022-05-05 22:35:0000000237 </pre>	316.86
large	<pre> 2022-05-05 12:00 event time mag lat long depth sig gap distancia net title col med magType type code 2022-05-05 12:00:21 7.2 34.9026 -79.2028 236.8 676 48.8 2256.768 344.8 M 7.2 - 38 km W of A 7.3 5.306 me earthquake 7000000 2022-05-05 18:01:19 4.50000 event time event 2022-05-05 18:01:21 4.50000 1 mag lat long depth sig gap distancia net title col med magType type code 4.6 34.8333 -63.8888 335.82 288 342.8 2057.888 M 4.6 - 4 km SE of Calabaz, Guatemala m earthquake 7000000 2022-05-05 17:01:19 4.30000 1 mag lat long depth sig gap distancia net title col med magType type code 4.3 35.8383 -88.9888 23.42 288 38.8 1338.634 M 4.3 - 33 km SSE of La Huaca, Peru m earthquake 7000000 2022-05-05 18:01:19 4.50000 1 mag lat long depth sig gap distancia net title col med magType type code 4.3 35.7728 -79.8325 35.8 288 35.8 1567.72 M 4.3 - 34 km W of Sordela, Haiti 5.4 m earthquake 7000000 2022-05-05 18:15:19 4.70000 1 mag lat long depth sig gap distancia net title col med magType type code 4.64 35.2000 -67.2000 38.8 328 1779.207 38.8 M 4.6 - 88 km SSE of San Antonio, Puerto Rico m earthquake 202200000 2022-05-05 22:31:19 4.50000 1 mag lat long depth sig gap distancia net title col med magType type code 4.7 -23.3758 -68.45 137.52 388 34.8 2963.872 M 4.7 - 135 km W of Calama, Chile m earthquake 7000000 2022-05-05 22:35:0000000237 </pre>	394.41

Graficas

Las gráficas con la representación de las pruebas realizadas.



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.

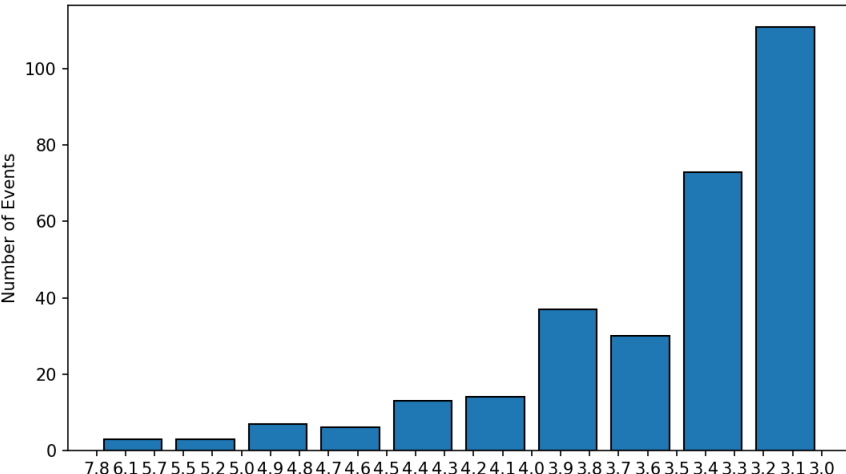
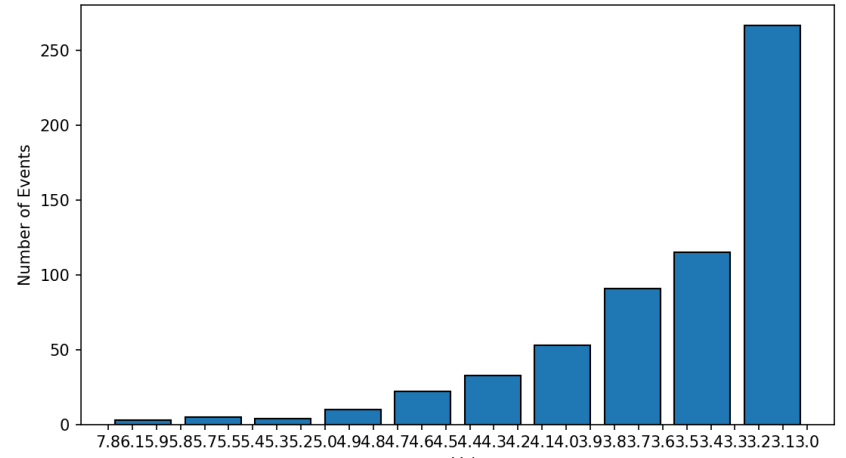
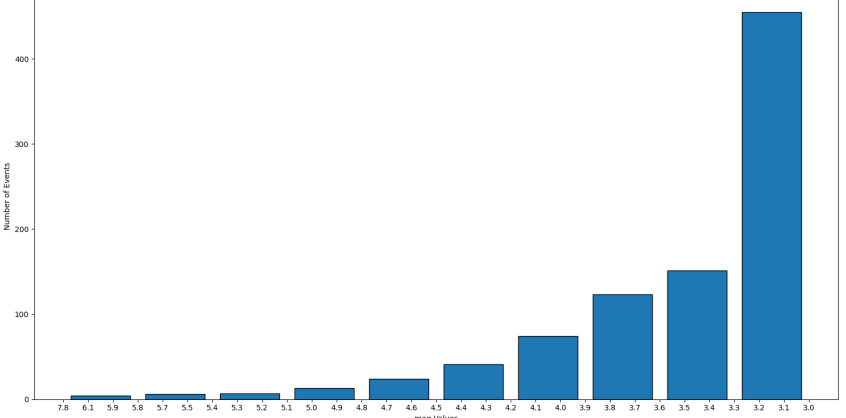
Procesadores	12th Gen Intel(R) Core(TM) i5-1235U
Memoria RAM	16 GB
Sistema Operativo	Windows 11 Home

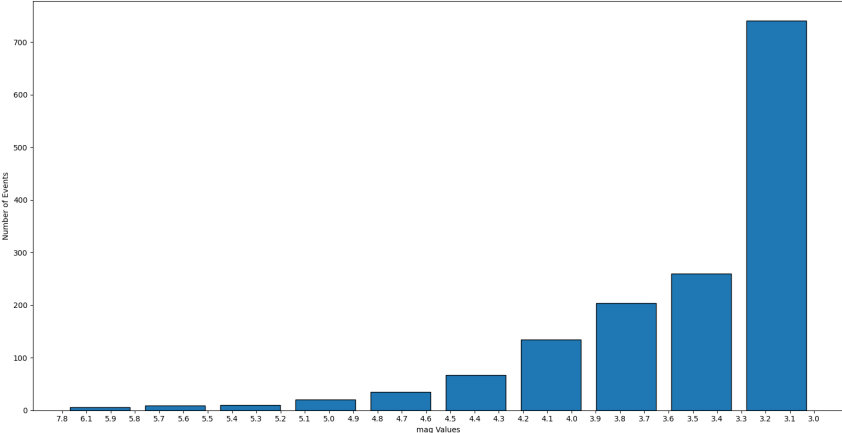
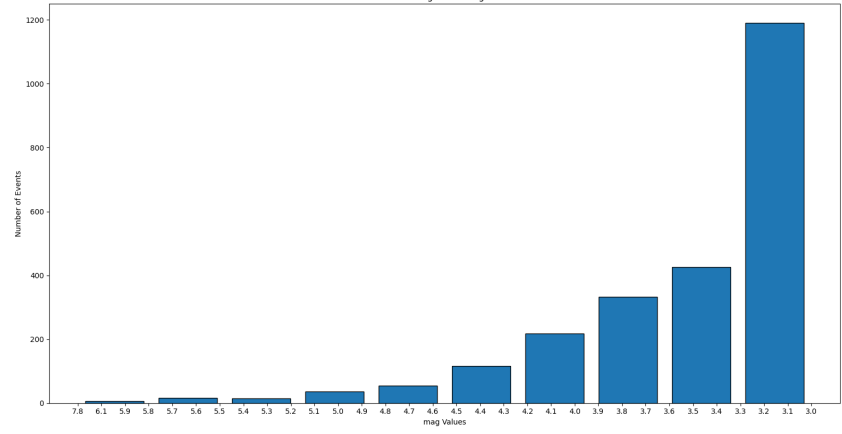
Entrada	Tiempo (ms)
small	0.75
5 pct	4.44
10 pct	12.70
20 pct	51.34
30 pct	36.59
50 pct	70.96
80 pct	126.23
large	167.297

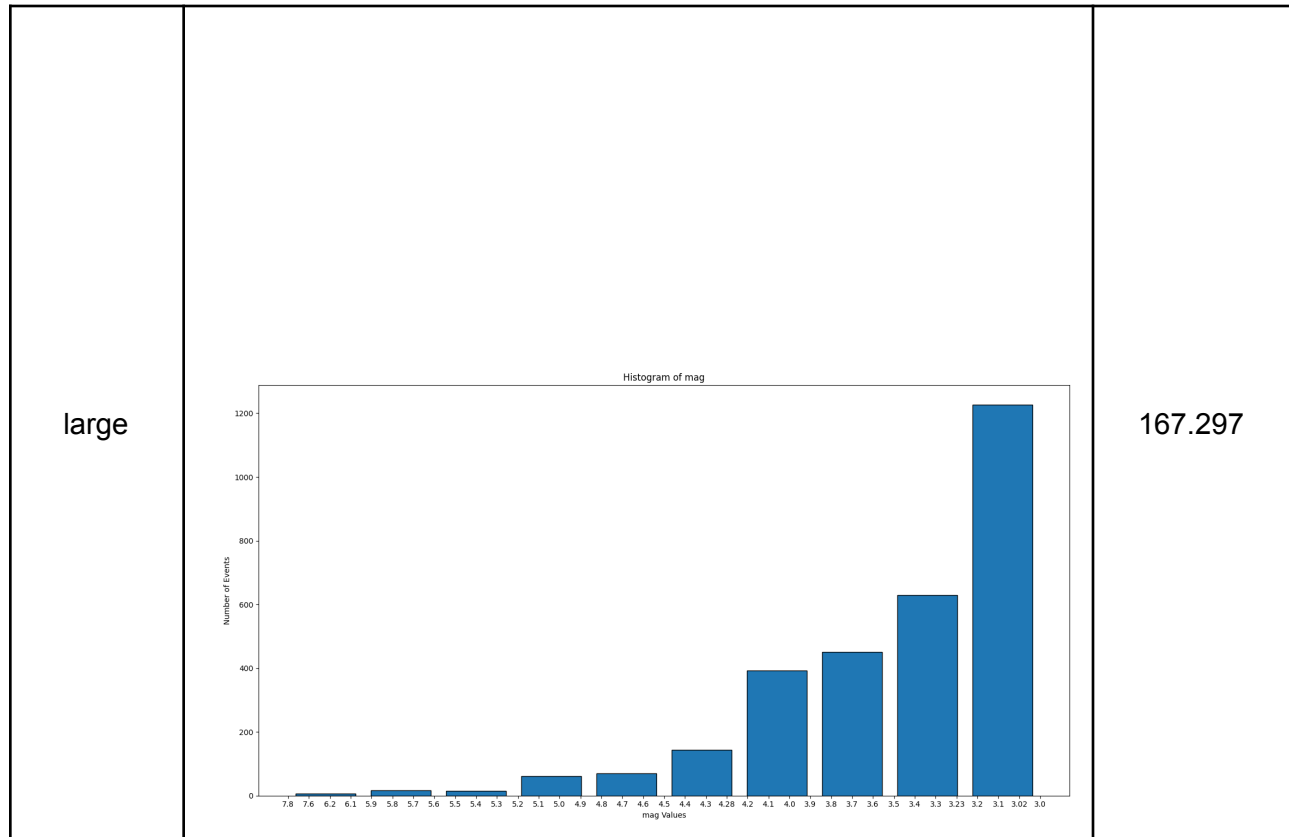
Tablas de datos

Las tablas con la recopilación de datos de las pruebas.

Muestra	Salida	Tiempo																																								
small	<div><div>Histogram of mag</div><table><tr><th>mag Values</th><th>Number of Events</th></tr><tr><td>4.1</td><td>3</td></tr><tr><td>4.0</td><td>1</td></tr><tr><td>3.9</td><td>2</td></tr><tr><td>3.8</td><td>1</td></tr><tr><td>3.7</td><td>1</td></tr><tr><td>3.6</td><td>2</td></tr><tr><td>3.5</td><td>4</td></tr><tr><td>3.4</td><td>1</td></tr><tr><td>3.3</td><td>3</td></tr><tr><td>3.2</td><td>9</td></tr><tr><td>3.1</td><td>0</td></tr><tr><td>3.0</td><td>0</td></tr></table></div>	mag Values	Number of Events	4.1	3	4.0	1	3.9	2	3.8	1	3.7	1	3.6	2	3.5	4	3.4	1	3.3	3	3.2	9	3.1	0	3.0	0	0.75														
mag Values	Number of Events																																									
4.1	3																																									
4.0	1																																									
3.9	2																																									
3.8	1																																									
3.7	1																																									
3.6	2																																									
3.5	4																																									
3.4	1																																									
3.3	3																																									
3.2	9																																									
3.1	0																																									
3.0	0																																									
5 pct	<div><div>Histogram of mag</div><table><tr><th>mag Values</th><th>Number of Events</th></tr><tr><td>6.1</td><td>0</td></tr><tr><td>5.5</td><td>3</td></tr><tr><td>4.8</td><td>4</td></tr><tr><td>4.6</td><td>3</td></tr><tr><td>4.5</td><td>10</td></tr><tr><td>4.3</td><td>5</td></tr><tr><td>4.2</td><td>17</td></tr><tr><td>4.1</td><td>14</td></tr><tr><td>4.0</td><td>29</td></tr><tr><td>3.9</td><td>26</td></tr><tr><td>3.8</td><td>45</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>0</td></tr><tr><td>3.0</td><td>0</td></tr></table></div>	mag Values	Number of Events	6.1	0	5.5	3	4.8	4	4.6	3	4.5	10	4.3	5	4.2	17	4.1	14	4.0	29	3.9	26	3.8	45	3.7	0	3.6	0	3.5	0	3.4	0	3.3	0	3.2	0	3.1	0	3.0	0	4.44
mag Values	Number of Events																																									
6.1	0																																									
5.5	3																																									
4.8	4																																									
4.6	3																																									
4.5	10																																									
4.3	5																																									
4.2	17																																									
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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.

