

Mini projet c++



 sujet :

Moteur de recherche:

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Description du projet :

- **Il s'agit de développer un moteur de recherche capable d'indexer un grand nombre de fichiers**

Conception et diagramme des classes:

➤ classe lecture

➤ classe Index


➤ classe Nettoyeur

➤ classe Ordonnanceur

➤ classe Analyseur


➤ classe Moteur

Classe lecture

 **class fille** LecteurDocument
1

 **class fille** LecteurDiractory
2

➤ Classe Nettoyeur

 **class fille** Nettoyeur_minis
1


 **class fille** Nettoyeur_ponc
2


 **class fille** Nettoyeur_mot_vide
3

 **class fille** NettoyeurPlural
4

➤ Classe Analyseur


 **class fille** Analyseur_Vect
I

 **class** AnalyseurFrequenceUnord
fille 3: red


 **class** Analyseure_map
fille 2

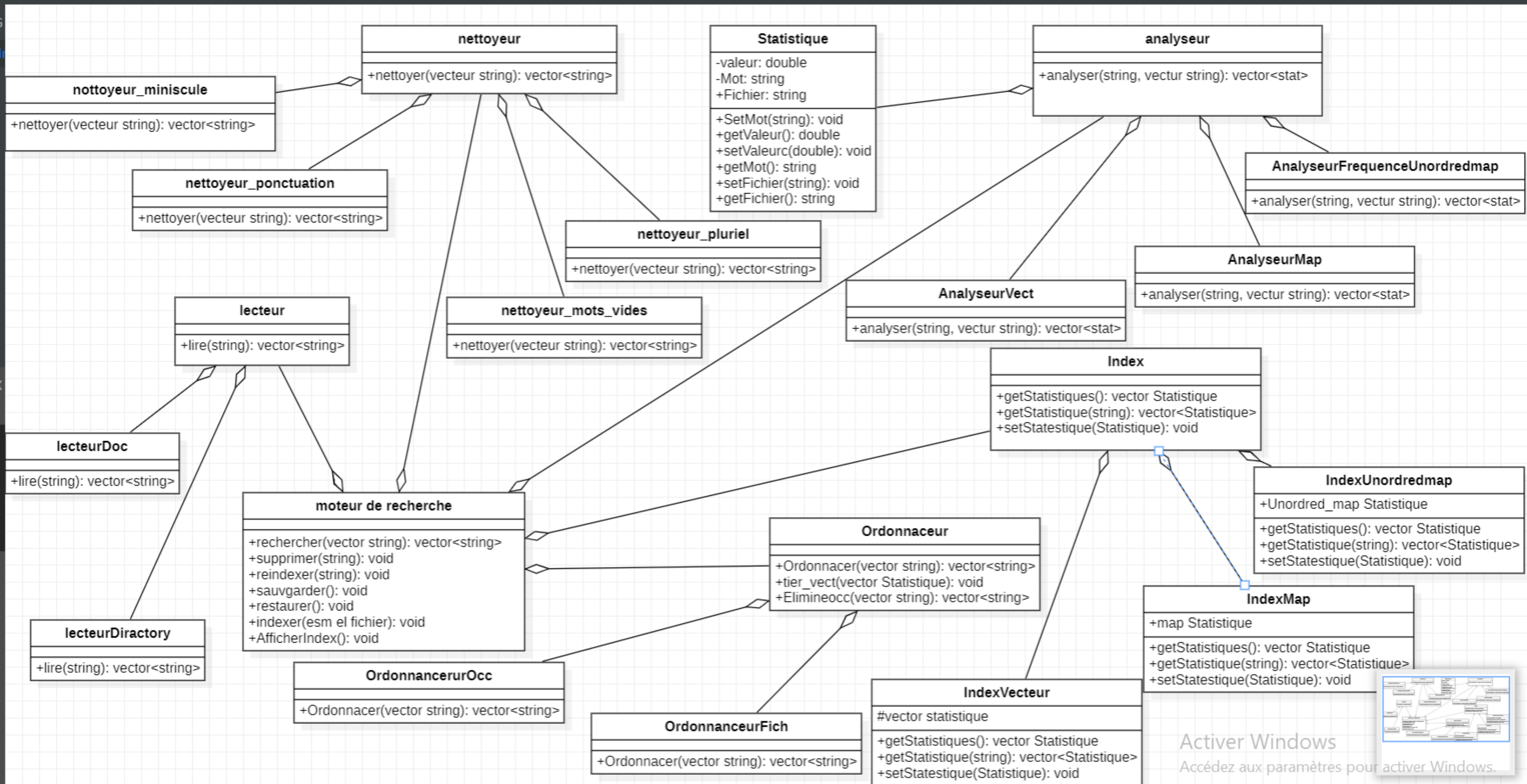
 **class** Statistiques

Classe Index

 **class** Index_vect
file 1:

 **class** Index_unordredMap
file 3:

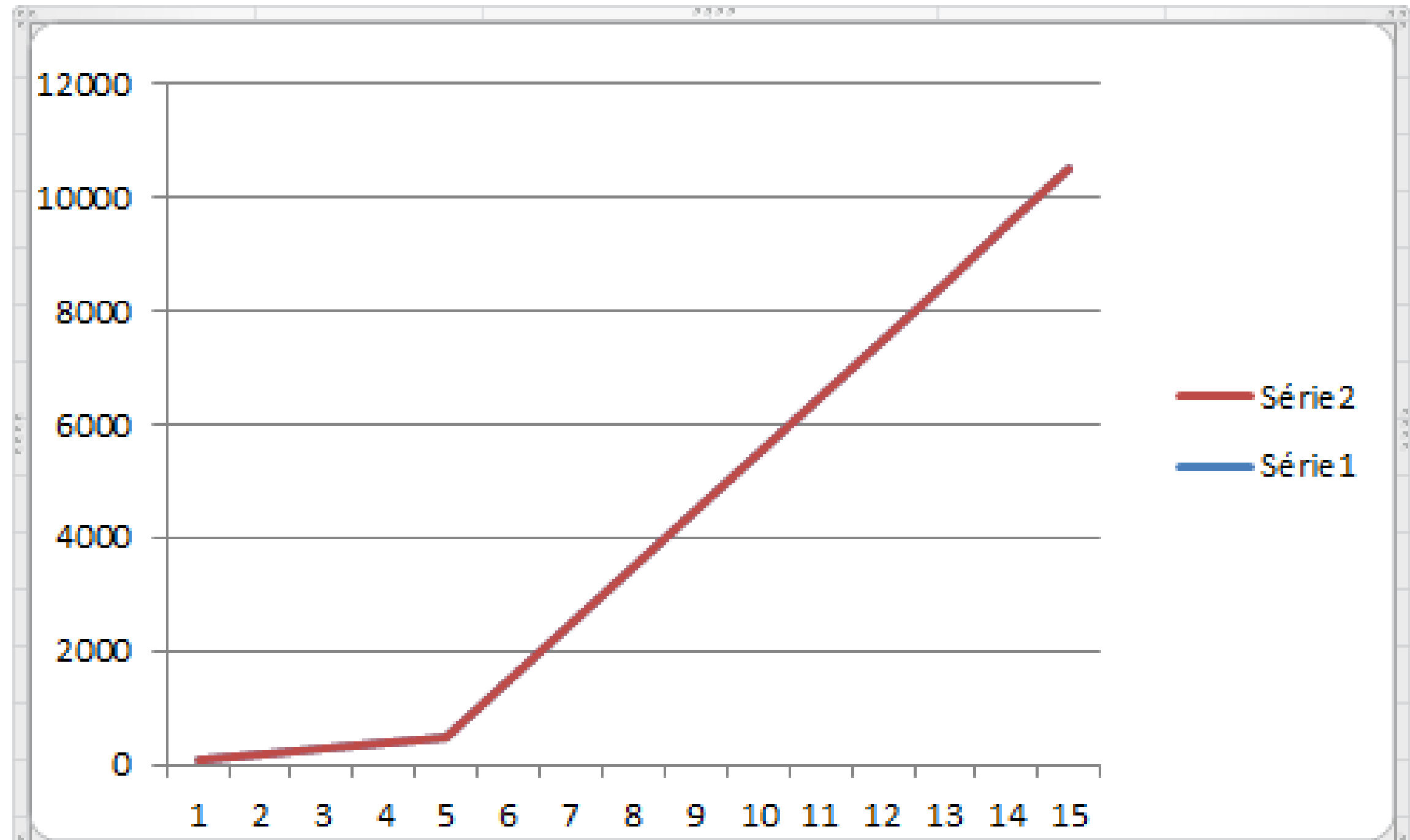
 **class** Index_Map
file 2:



➤ Classe Index

➤ Complexité:

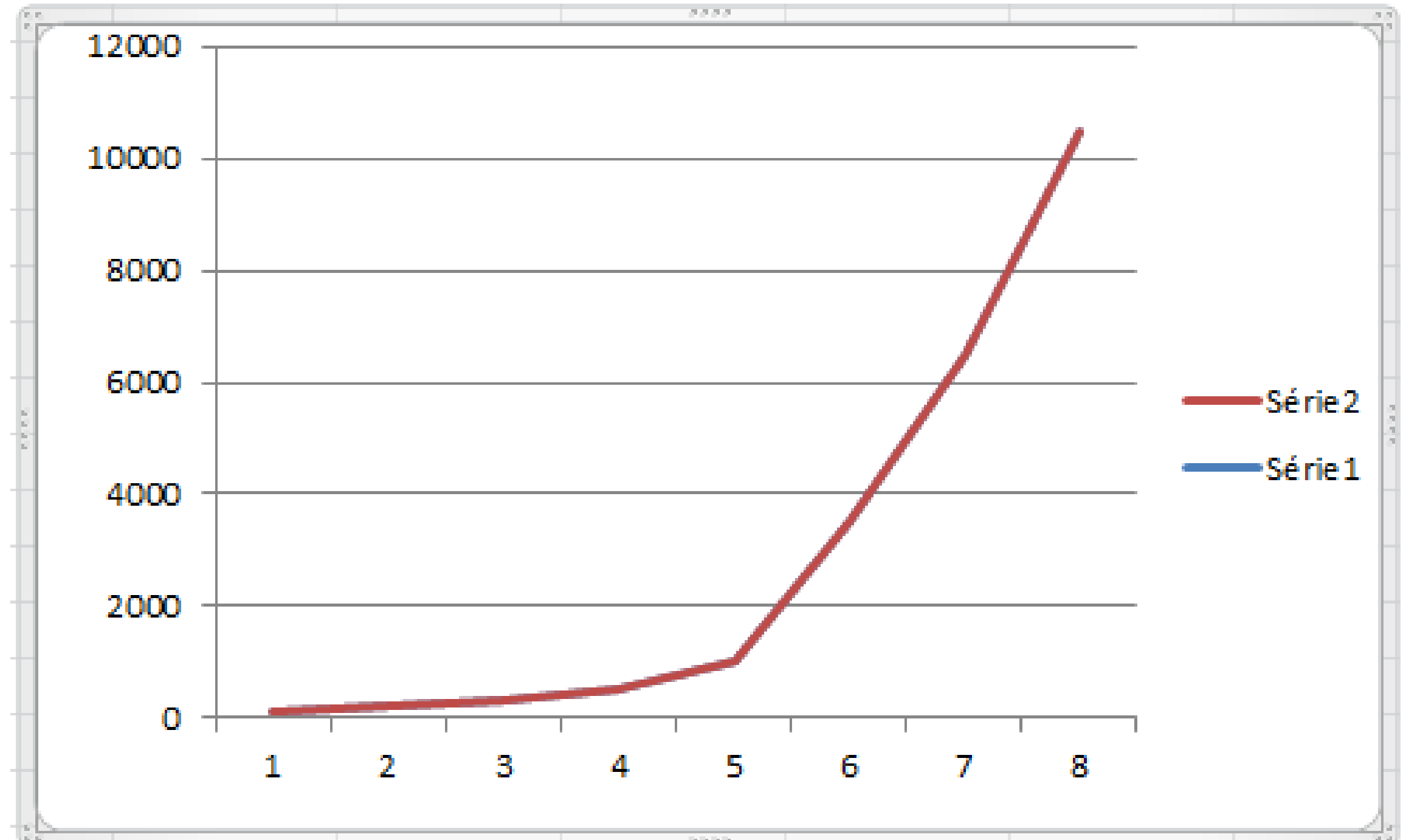
class fille **Index_vect**



➤ cClasse Index

➤ Complexité:

class fille **Index_Map**
complexité :

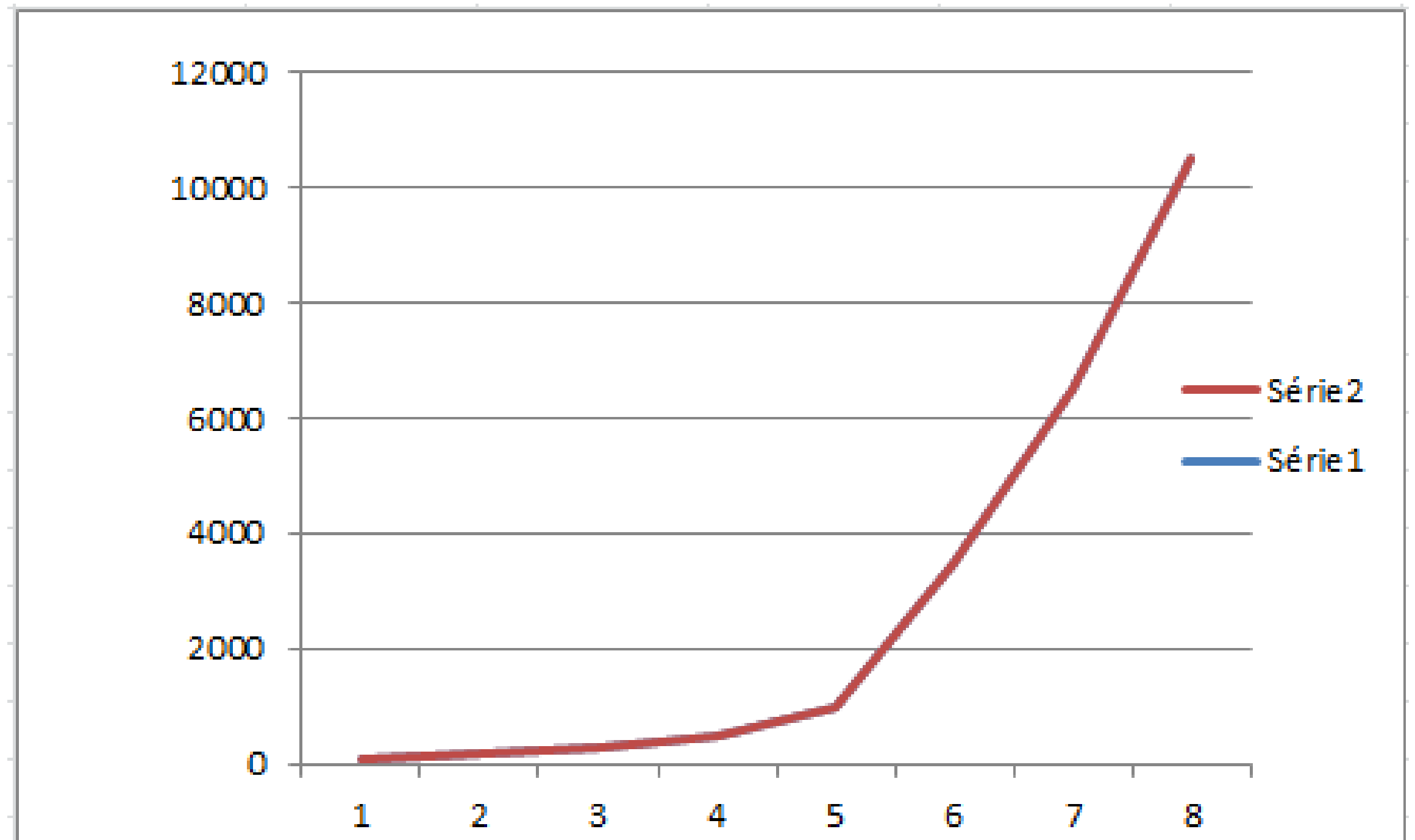


➤ Classe Index

➤ Complexité:

class fille
`Index_unordredMap`

complexité :



➤ captures d'écran :

index_vect : indexer un fichier de 100 mots en 0.014 sec:

 C:\Users\user\OneDrive\Bureau\c++\moteur_recherche\bin\Debug\r

```
taille de texte : 100-----  
Process returned 0 (0x0)   execution time : 0.014 s  
Press any key to continue.
```

index_vect : indexer un fichier de 10500 mots en 0.049 sec:

 C:\Users\user\OneDrive\Bureau\c++\moteur_recherche\bin\Debug\mote

```
getstat success!!!  
taille de texte : 10500-----  
Process returned 0 (0x0)   execution time : 0.049 s  
Press any key to continue.
```

➤ captures d'écran :

index_Map : indexer un fichier de 100 mots en 0.012 sec:

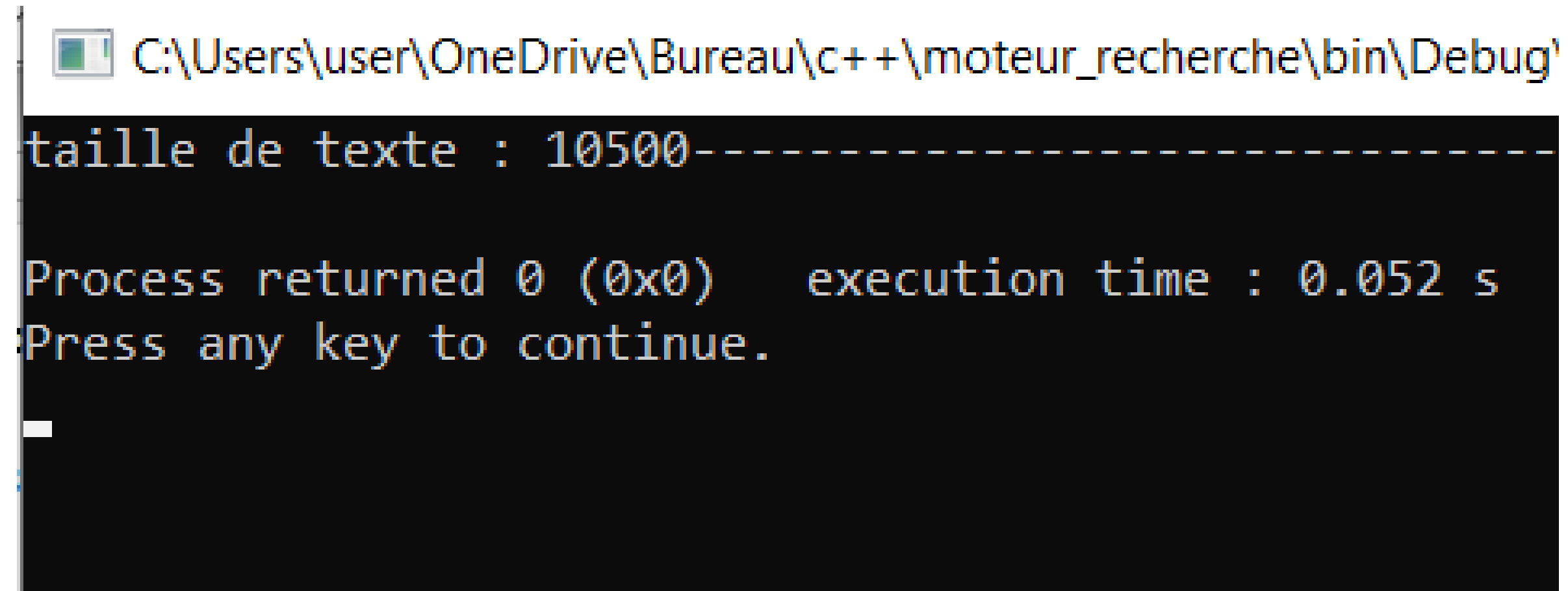
```
*****
getstat success!!!
taille de texte : 100-----
Process returned 0 (0x0)   execution time : 0.012 s
Press any key to continue.
```

index_Map : indexer un fichier de 5500 mots en 0.029 sec:

```
C:\Users\user\OneDrive\Bureau\c++\moteur_recherche\bin\Debug\mo
taille de texte : 5500-----
Process returned 0 (0x0)   execution time : 0.029 s
Press any key to continue.
```

➤ captures d'écran :

**index_map : indexer un fichier de 10500
mots en 0.052 sec:**



```
C:\Users\user\OneDrive\Bureau\c++\moteur_recherche\bin\Debug'
taille de texte : 10500-----
Process returned 0 (0x0)   execution time : 0.052 s
Press any key to continue.
_
```

le temps d'exécution de l'index

le très petit corpus:

Index	index-vect	index-map	IndexunorderedMap
analyseur vect	0.5211	0.091	0.0872
analyseur map	2.04	2.52	1.67
analyseur unorderedmap	0.1	1.53	1.53

```
set stat success
set stat success
set stat success
Time taken by index: 521102 microseconds
```

ICHRAK & MOLKA

=====

1. Search Engine

```
set stat success
set stat success
set stat success
Time taken by index: 91017 microseconds
```

ICHRAK & MOLKA

=====

1. Search Engine

```
set stat success
set stat success
set stat success
set stat success
Time taken by index: 80720 microseconds
```

ICHRAK & MOLKA

=====

le temps d'exécution de l'index

le petit corpus:

Index	index-vect	index-map	IndexunorderedMap
temps en sec	57.284	97.677	31.868

```
getstat success!!!  
set stat success  
getstat success!!!  
  
Process returned -1073741819 (0xC0000005)   execution time : 57.284 s  
Press any key to continue
```

```
success  
success  
success  
  
returned -1073741819 (0xC0000005)   execution time : 31.868 s  
Press any key to continue
```

```
set stat success  
set stat success  
set stat success  
  
Process returned -1073741819 (0xC0000005)   execution time : 97.677 s  
Press any key to continue
```

le temps d'exécution de l'index

le corpus:

Index	index-vect	index-map	Indexunord redMap
temps d'exécution	573.931	84.335	334.909

```
set stat success
Time taken by index: 573931151 microseconds
```

ICHRAK & MOLKA

=====

1. Search
2. index
3. Reindex File
4. Delete File
5. Print all statictics
6. Restore index
7. Exit

=====

Enter your selection:

```
set stat success
set stat success
set stat success
set stat success
Time taken by index: 84335988 microseconds
```

ICHRAK & MOLKA

=====

1. Search
2. index
3. save
4. Delete File
5. Print all statictics
6. Restore index

7. Exit

=====

Enter your selection:

```
set stat success
set stat success
set stat success
set stat success
Time taken by index: 334909124 microseconds
```

ICHRAK & MOLKA

=====

1. Search
2. index
3. save
4. Delete File
5. Print all statictics
6. Restore index

7. Exit

=====

Enter your selection:

➤ classe Ordonnonceure

 **class** Ordonnonneur_occurance
fille 1:

 **class** fichocc

 **class** Ordonnonneur_fich
fille 2:

➤ Capturs d'écran

recherche d'une
requete dans un
repertoire de Taille
20 ko --> fait en
351 micro sec

=====

1. search
2. search

3. Exit

=====

Enter your selection: years all

Invalid selection type!

Please enter your selection again: 1

Enter here words to search: years all

Time taken by search: 351 microseconds

6 result found : C:\\Users\\user\\OneDrive\\Bureau\\c++\\moteur_recherche\\nouveau\\179.txt

C:\\Users\\user\\OneDrive\\Bureau\\c++\\moteur_recherche\\nouveau\\179.txt

C:\\Users\\user\\OneDrive\\Bureau\\c++\\moteur_recherche\\nouveau\\184.txt

C:\\Users\\user\\OneDrive\\Bureau\\c++\\moteur_recherche\\nouveau\\500.txt

C:\\Users\\user\\OneDrive\\Bureau\\c++\\moteur_recherche\\nouveau\\184.txt

C:\\Users\\user\\OneDrive\\Bureau\\c++\\moteur_recherche\\nouveau\\500.txt

=====

1. Index file
2. Index diractory

4. Exit

=====

Enter your selection:

Recherche dans le corpus 70000 fichiers prend 1002 micro-seconds

 C:\Users\user\OneDrive\Bureau\c++\moteur_recherche\bin\Debug\moteur_recherche.exe

```
=====
```

1. search with ordonnanceur occ
2. search with ord fich

3. Exit

```
=====
```

Enter your selection: 2

Enter here words to search : sub

1

sub

Time taken by search: 1002 microseconds

209 result found : C:\\Users\\user\\Downloads\\corpus\\corpus\\14142.txt

C:\\Users\\user\\Downloads\\corpus\\corpus\\3074.txt

C:\\Users\\user\\Downloads\\corpus\\corpus\\47626.txt

C:\\Users\\user\\Downloads\\corpus\\corpus\\36421.txt

C:\\Users\\user\\Downloads\\corpus\\corpus\\13963.txt

C:\\Users\\user\\Downloads\\corpus\\corpus\\46052.txt

C:\\Users\\user\\Downloads\\corpus\\corpus\\8834.txt

classe Moteur

 **Part 1:** Our Mission

 **Part 2:** 2 Major Goals

 **Part 3:** 3 Key Company Strategies

 **Part 4:** Summary

index.txt

test.txt - Bloc-notes			
Fichier	Edition	Format	Affichage Aide
aah	C:\\Users\\user\\Downloads\\corpus\\corpus\\7678.txt	1	
aai	C:\\Users\\user\\Downloads\\corpus\\corpus\\7678.txt	1	
aaaina	C:\\Users\\user\\Downloads\\corpus\\corpus\\56996.txt	1	
aaaj	C:\\Users\\user\\Downloads\\corpus\\corpus\\7678.txt	1	
aaajangaon	C:\\Users\\user\\Downloads\\corpus\\corpus\\53724.txt	1	
aak	C:\\Users\\user\\Downloads\\corpus\\corpus\\7678.txt	1	
aakhir	C:\\Users\\user\\Downloads\\corpus\\corpus\\33297.txt	1	
aal	C:\\Users\\user\\Downloads\\corpus\\corpus\\7678.txt	1	
aalayamani	C:\\Users\\user\\Downloads\\corpus\\corpus\\59527.txt	1	
aalborg	C:\\Users\\user\\Downloads\\corpus\\corpus\\49444.txt	1	
aalborg	C:\\Users\\user\\Downloads\\corpus\\corpus\\67512.txt	3	
aalchi	C:\\Users\\user\\Downloads\\corpus\\corpus\\50537.txt	1	
aale	C:\\Users\\user\\Downloads\\corpus\\corpus\\54496.txt	1	
aaliya	C:\\Users\\user\\Downloads\\corpus\\corpus\\5375.txt	1	
aaliyah	C:\\Users\\user\\Downloads\\corpus\\corpus\\13021.txt	2	
aaliyah	C:\\Users\\user\\Downloads\\corpus\\corpus\\15060.txt	1	
aaliyah	C:\\Users\\user\\Downloads\\corpus\\corpus\\28827.txt	1	
aaliyah	C:\\Users\\user\\Downloads\\corpus\\corpus\\36043.txt	3	
aaliyah	C:\\Users\\user\\Downloads\\corpus\\corpus\\39523.txt	4	
aaliyah	C:\\Users\\user\\Downloads\\corpus\\corpus\\40053.txt	1	
aaliyah	C:\\Users\\user\\Downloads\\corpus\\corpus\\40317.txt	1	
aaliyah	C:\\Users\\user\\Downloads\\corpus\\corpus\\45679.txt	5	
aaliyah	C:\\Users\\user\\Downloads\\corpus\\corpus\\4923.txt	4	
aaliyah	C:\\Users\\user\\Downloads\\corpus\\corpus\\62155.txt	2	
aaliyah	C:\\Users\\user\\Downloads\\corpus\\corpus\\7553.txt	1	
aaliyah	C:\\Users\\user\\Downloads\\corpus\\corpus\\9316.txt	5	
aall	C:\\Users\\user\\Downloads\\corpus\\corpus\\8952.txt	1	
aalten	C:\\Users\\user\\Downloads\\corpus\\corpus\\27845.txt	3	
aalten	C:\\Users\\user\\Downloads\\corpus\\corpus\\64198.txt	2	
aalto	C:\\Users\\user\\Downloads\\corpus\\corpus\\4046.txt	1	
aalto	C:\\Users\\user\\Downloads\\corpus\\corpus\\7026.txt	1	
aam	C:\\Users\\user\\Downloads\\corpus\\corpus\\7678.txt	1	
aami	C:\\Users\\user\\Downloads\\corpus\\corpus\\56517.txt	1	
aamir	C:\\Users\\user\\Downloads\\corpus\\corpus\\17632.txt	1	
aamir	C:\\Users\\user\\Downloads\\corpus\\corpus\\35790.txt	1	
aamir	C:\\Users\\user\\Downloads\\corpus\\corpus\\50523.txt	1	
aamir	C:\\Users\\user\\Downloads\\corpus\\corpus\\55868.txt	1	
aamir	C:\\Users\\user\\Downloads\\corpus\\corpus\\66151.txt	1	
aamir	C:\\Users\\user\\Downloads\\corpus\\corpus\\66959.txt	1	
aan	C:\\Users\\user\\Downloads\\corpus\\corpus\\40037.txt	1	
aan	C:\\Users\\user\\Downloads\\corpus\\corpus\\44488.txt	1	
aan	C:\\Users\\user\\Downloads\\corpus\\corpus\\44709.txt	1	
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