Plateformes et Langages de Programmation : Partie Hadoop – Map Reduce

Groupe: Adam TOUGHZA, Iliass CHEKOUR, Youssef EL HARIF

Répartition des questions :

- 2.7) Youssef El Harif
- 2.8) Youssef El Harif, Iliass Chekour
- 5.1) Adam Toughza
- 5.2) Adam Toughza
- 5.3) Iliass Chekour

Résultats obtenus :

Year : 1872 - Height : NA

2.7)

```
<terminated> YearHeightTree [Java Application] C:\Program Files\Java\jre1.8.0_151\bin\javaw.exe (8 janv. 2018 à 20:03:56)
Year : 1862 - Height : 22.0
Year : 1906 - Height : 16.0
Year : 1784 - Height : 30.0
Year : 1860 - Height : 45.0
Year : 1840 - Height : 40.0
Year : 1933 - Height : 16.0
Year: NA - Height: 30.0
Year: 1913 - Height: 33.0
Year: NA - Height: 30.0
Year: NA - Height: 35.0
Year : 1862 - Height : 35.0
Year: NA - Height: 12.0
Year : 1850 - Height : 30.0
Year: NA - Height: 10.0
Year : 1857 - Height : 10.0
Year: 1882 - Height: 27.0
```

2.8)

```
<terminated> DisplayStationData [Java Application] C:\Program Files\Java\jre1.8.0_151\bin\javaw.exe (8 janv. 2018 à 20:05:14)
Station: 999999 - Name: PORTLAND INTL JETPORT - Country: US - Elevation: +0019.2
Station: 999999 - Name: PROVIDENCE T F GREEN ARPT - Country: US - Elevation: +0018.9
Station: 999999 - Name: ROCHESTER MONROE CO ARPT - Country: US - Elevation: +0169.2
Station: 999999 - Name: SELINSGROVE PENN VALLEY AP - Country: US - Elevation: +0137.2
                                                                      - Country : US - Elevation : +0127.1
Station: 999999 - Name: SYRACUSE MUNICIPL AP
                                                                       - Country: US - Elevation: +0064.0
Station: 999999 - Name: TICONDEROGA 3 NE
                                                                       - Country: US - Elevation: +0163.1
Station: 999999 - Name: UTICA CAA AP
Station : 999999 - Name : WESTFIELD BARNES MUNI AP
Station : 999999 - Name : LEBANON MUNICIPAL
                                                                      - Country: US - Elevation: +0082.6
                                                                      - Country: US - Elevation: +0173.7
Station: 999999 - Name: WILKES-BARRE SCRANTON AP - Country: US - Elevation: +0293.2
Station: 999999 - Name: WILLIAMSPORT-LYCOMING COUNTY - Country: US - Elevation: +0160.0
Station: 999999 - Name: LAKEHURST NAS
                                                                       - Country: US - Elevation: +0031.4
Station: 999999 - Name: AYER
                                                                       - Country: US - Elevation: +0082.0
                                                                  - Country: US - Elevation: +0002.9
- Country: US - Elevation: +0004.9
- Country: US - Elevation
Station: 999999 - Name: LEWISTON NAAF
Station : 999999 - Name : NEW YORK FLOYD BENNE
Station : 999999 - Name : QUONSET POINT NAS
                                                                       - Country: US - Elevation: +0004.9
Station: 999999 - Name: SQUANTUM NAS
Station: 999999 - Name: SQUANTUM NAS
Station: 999999 - Name: SOUTH WEYMOUTH NAS
Station: 999999 - Name: TRENTON MERCER COUNTY AP
                                                                      - Country: US - Elevation: +0049.4
Station: 999999 - Name: TRENTON MERCER COORT...

Station: 999999 - Name: WILLOW GROVE NAS - Country: US - Elevation: +0396.8

Station: 999999 - Name: BEAR MOUNTAIN WB - Country: US - Elevation: +0396.8

PLOCY TSLAND - Country: US - Elevation: +0013.1
Station . 000000 - Name . MOUNT CLEMENS SELECTORE FLD - Country . IIS - Flavation . 10176 8
```

5.1)

Rank	Word	File	TFIDF
1	buck	callwild.txt	0,005259
2	dogs	callwild.txt	0,001724
3	thornton	callwild.txt	0,001490
4	myself	defoe-robinson-103.txt	0,001267
5	spitz	callwild.txt	0,000950
6	sled	callwild.txt	0,000920
7	francois	callwild.txt	0,000877
8	friday	defoe-robinson-103.txt	0,000803
9	trail	callwild.txt	0,000599
10	john	callwild.txt	0,000584
11	perrault	callwild.txt	0,000570
12	hal	callwild.txt	0,000541
13	team	callwild.txt	0,000497
14	thoughts	defoe-robinson-103.txt	0,000482
15	sol	callwild.txt	0,000424
16	leks	callwild.txt	0,000409
17	traces	callwild.txt	0,000409
18	ice	callwild.txt	0,000409
19	around	callwild.txt	0,000380
20	dave	callwild.txt	0,000365

5.2) Le calcul final du Page Rank n'était pas clair, ce qui nous a empêché de finaliser le code. On a bien codé la partie « map » qui renvoie les pairs <IDsource, IDtarget> mais on n'a pas finalisé la partie « reduce ».

5.3)

Specie	Max Height	Count
araucana	9.0	1
atlantica	25.0	2
australis	16.0	1
baccata	13.0	2
bignonioides	15.0	1
biloba	33.0	5
bungeana	10.0	1
cappadocicum	16.0	1
carpinifolia	30.0	4
colurna	20.0	3
coulteri	14.0	1
decurrens	20.0	1
dioicus	10.0	1

distichum	35.0	3
excelsior	30.0	1
fraxinifolia	27.0	2
giganteum	35.0	5
giraldii	35.0	1
glutinosa	16.0	1
grandiflora	12.0	1
hippocastanum	30.0	3
ilex	15.0	1
involucrata	12.0	1
japonicum	10.0	1
kaki	14.0	2
libanii	30.0	2
monspessulanum	12.0	1
nigra	30.0	3
nigra laricio	30.0	1
opalus	15.0	1
orientalis	34.0	8
papyrifera	12.0	1
petraea	31.0	2
pomifera	13.0	1
pseudoacacia	11.0	1
sempervirens	30.0	1
serrata	18.0	1
stenoptera	30.0	1
suber	10.0	1
sylvatica	30.0	8
tomentosa	20.0	2
tulipifera	35.0	2
ulmoides	12.0	1
virginiana	14.0	2
x acerifolia	45.0	11