1. About once every two weeks, SWORD asks its patients how much they would recommend its therapy to someone they know on a scale from 0 to 10. Assume you have a table called *Scores* having a json string containing (among other things) the satisfaction scores of SWORD's patients along with the corresponding date, as follows:

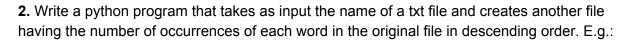| id	patient_id	scores	date
1	1323	{'satisfaction': 9, 'pain': 2, 'fatigue': 2}	2020-06-25
2	9032	{'satisfaction': 2, 'pain': 7, 'fatigue': 5}	2020-06-30
3	2331	{'satisfaction': 7, 'pain': 1, 'fatigue': 1}	2020-07-05
4	2303	{'satisfaction': 8, 'pain': 9, 'fatigue': 0}	2020-07-12
5	1323	{'satisfaction': 10, 'pain': 0, 'fatigue': 0}	2020-07-09
6	2331	{'satisfaction': 8, 'pain': 9, 'fatigue': 5}	2020-07-20

One of our most important metrics is the NPS which is calculated with the following formula:

$$\frac{number\ of\ promoters - number\ of\ detractors}{number\ of\ patients}$$

Patients are classified in the following groups according to **their most recent** satisfaction report:
- > 8 is a promoter
- < 7 is a detractor

Write a SQL query to calculate SWORD's Digital Therapist NPS <u>for each month</u>. E.g.:

month	NPS
January	50
February	45
March	53
...	...

2. Write a python program that takes as input the name of a txt file and creates another file having the number of occurrences of each word in the original file in descending order. E.g.:

the 563
of 431
to 320
it 210
that 109

…

Your program should distribute the computation by having 10 worker threads simultaneously building the resulting list.