- Your program takes two arguments: filename and topN
- You should read the given text file and preprocess the text according to following order: Tokenize the text by whitespace(not just space character, e.g. more than one space, tab, newline etc.), remove punctuations, and apply the lowercase.
- You are asked to calculate followings:
 - Average Term Length By Initial Character: For example, If your tokens are ["apple","banana","avocado","blueberry"], then your output should be like

$$a = 6 b$$

= 7.5

 Total Minimum Distance: For each term pair, calculate the following formula

$$f(t_1) * f(t_2)$$

$$1+ln \sum d(t_1,t_2)$$

where f(t) is the count of the term t in the text and $d(t_1,t_2)$ gives the minimum distance between t_1 and t_2 where t_2 is followed by t_2 . For example, If the text is

"aa bb cc aa cc dd bb" and t_1 = aa and t_2 = bb, then $\sum d(t_1,t_2)$ = 1+3 = 4. You

should print only topN pairs according to the score.

Sample Output

```
InitialCharacter
                     AverageLength
1
       3.52
2.0 3 5.0
5
       1.0
7
       4.0
       6.285714285714286
а
b
       7.0
d
       5.333333333333333
       7.0 f 6.0 g 7.125 h 5.375 i 6.0
е
k
    9.26666666666666
5.857142857142857
       8.0
0
р
       8.5
       6.0
r
    7.214285714285714
6.363636363636363
       7.0
u
٧
       2.4285714285714284 y
                                    10.0 z 7.5
   11.66666666666666
                           ö
11.090909090909092
                           ü
12.66666666666666
Pair{t1='yerleşkesindeki', t2='ve', factor=26.0}
Pair{t1='ve', t2='sayılı', factor=15.356018837890671}
Pair{t1='tarih', t2='ve', factor=13.0}
Pair{t1='donanımlı', t2='ve', factor=13.0}
Pair{t1='öğrencileri', t2='ve', factor=13.0}
Pair{t1='söyleşilere', t2='ve', factor=13.0}
Pair{t1='yaratıcı', t2='ve', factor=13.0}
Pair{t1='eden', t2='ve', factor=13.0}
Pair{t1='ve', t2='30425', factor=13.0}
Pair{t1='kültürel', t2='ve', factor=13.0}
```