

Review

- Various methods to read info from a file
 - read, readline, readlines, for loop
- Various string methods to manipulate text data
 - split, strip
- Type conversion
 - byte, string, int, ...

File IO Examples

Practice 3

Hyung-Sin Kim



SNU Graduate School of Data Science

Practice – File I/O

- Suppose the file **file_practice.txt** contains numbers ending with ‘.’ and comments written after hash symbol(#). Write a code that finds the largest number in the file ending with ‘.’. Ignore any part of the line commented with ‘#’.

```
#Annual Number of Lynx Trapped, MacKenzie River, 1821-1934
#Original Source: Elton, C. and Nicholson, M. (1942)
#"The ten year cycle in numbers of Canadian lynx",
#J. Animal Ecology, Vol. 11, 215--244.
#This is the famous data set which has been listed before in
#various publications:
#Cambell, M.J. and Walker, A.M. (1977) "A survey of statistical work on
#the MacKenzie River series of annual Canadian lynx trappings for the years
#1821-1934 with a new analysis", J.Roy.Statistical Soc. A 140, 432--436.
269. 321. 585. 871. 1475. 2821. 3928. # 5943. 4950. 2577. 523. 98. These numbers are not valid
184. 279. 409. 2285. 2685. 3409. 1824. 409. 151. 45. 68. 213.
546. 1033. 2129. 2536. 957. 361. 377. 225. 360. 731. 1638. 2725.
2871. 2119. 684. 299. 236. 245. 552. 1623. 3311. 6721. 4245. 687.
#### This is a break line
255. 473. 358. 784. 1594. 1676. 2251. 1426. 756. 299. 201. 229.
469. 736. 2042. 2811. 4431. 2511. 389. 73. 39. 49. 59. 188.
377. 1292. 4031. 3495. 587. 105. 153. 387. 758. 1307. # 3465. 6991. These numbers are not valid
6313. 3794. 1836. 345. 382. 808. 1388. 2713. 3800. 3091. 2985. 3790.
674. 81. 80. 108. 229. 399. 1132. 2432. 3574. 2935. 1537. 529.
485. 662. 1000. 1590. 2657. 3396.
```