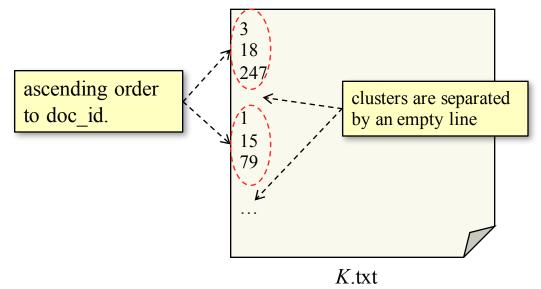
Programming Assignment 4 (1/2)

☐ HAC clustering:

- Text collection:
 - The 1095 news documents.
- K = 8, 13, and 20.
 - □ Save each clustering result in a file *K*.txt (that is, 8.txt, 13.txt, and 20.txt).



Programming Assignment 4 (2/2)

- TA will evaluate your clustering performances in terms of *precision*, recall, and F_1 metrics.
- Note:
 - Documents are represented as normalized tf-idf vectors.
 - Remind your programming assignment 2.
 - Cosine similarity for pair-wise document similarity.
 - Similarity measure between clusters can be:
 - single-link, complete-link, group-average, and centroid similarity.
 - To speed up your clustering ... you MAY ... (15 bonus points)
 - Use <u>YOUR OWN</u> <u>HEAP</u> to obtain the cluster pair with maximal similarity.
- □ Please zip and submit ¹ your clustering results (*K*.txt), ² source code, and ³ a report to TA.
 - 3 weeks to complete, that is, 2022/1/24.