Its Gradle project and we can run test cases using below command on terminal

Linux

./gradlew clean test

Windows

gradlew clean test

Magazine, Article and Ransom words kept in test/ resources folder

I thought 3 solution, I explain below

Solution 1: I Choose

Reading Ransom file I used streams and split into words, store all unique words into CopyOnWriteArraySet, we modify concurrently

Reading Magazine or Article I used Buffered Reader, we can read line by line, each line split into words, each word verifies with Ransom words, if matches, word removed from Ransom, if Ransom word list empty means all words matched, and return true,

If Ransom word list not empty, all words not matched, un matched words logged and return false, we are not reading whole file,

Solution 2:

Reading Ransom file I used streams and split into words, store all unique words into CopyOnWriteArraySet

Reading whole Article or Magazine using streams line by line, each line split into words, each line split into words, each word verifies with Ransom words, if matches, word removed from Ransom, if Ransom word list empty means all words matched, and return true,

If Ransom word list not empty, all words not matched, un matched words logged and return false, we are reading whole file

Solution 3:

Reading Ransom file I used streams and split into words, store all unique words into CopyOnWriteArraySet

Read whole Article or Magazine using streams line by line, each line split into words and store all unique words into Set, Compare both Set,

Its slow because we need to read whole file, we will get memory problem because all unique words of Magazine store in Set