Composite user comment[1]
Composite join pattern (Challenge 6c)

For this exercise you have to prepare a report including:

- Your data collections comment describing what they represent.
- Your source codes: a file precising in a comment the compiling and execution commands.
- Propose a test battery and report execution measures.
- Compress everything and sent a .zip or a .tar to genoveva.vargas@gmail.com

1.1 Problem statement without filter

Problem: Given two large formatted data sets of user information and comments, enrich the comments with user information data.

1.2 Implementation

Look at page 122 of the book "Map Reduce design patterns" and see the proposed `Driver,Map` code. Prepare a data collection of your choice and implement the solution. As in previous challenges, you can use StackOverflow or any other source for generating your collection. Program the first part of the example.

- Describe the general principle of the solution proposed by the book.
- Implement and compare intuitively the other joins.
- Explain the raisons for the absence of a `combiner` and `reducer`.
- Analyse the `CompositeInputFormat` documentation and explain the details of the magic join expression.
- Prepare collections of different sizes to run your tests trying to get to the limits of your solution.
- Make comparisons. Do not hesitate to prepare graphics.

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[1] This challenge is an example proposed in the book MapReduce design patterns, pp. 126.