



# Lesson 1 Review

7 questions

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1.

Which of these kinds of data motivated the Map/Reduce framework?

- ☐ Large number of patient records that are updated immediately after each patient visit.
- ☐ Large number of customer internet transactions that are often retrieved by a billing id.
- ☒ Large number of internet documents that need to be indexed for searching by words.

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2.

What is the organizing data structure for map/reduce programs?

- ☐ A dictionary of words and their semantic value
- ☒ A list of identification keys and some value associated with that identifier
- ☐ A set of indices for a table of data values

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3.

In map/reduce framework, which of these logistics does Map/Reduce do with the map function?

- ☐ Gather data distributed across a cluster to the user's computer and run map
  - ☐ Distribute map to cluster nodes, run map on the data partitions at the same time
  - ☐ Distribute map to cluster nodes, run map at one node, wait for it to finish, then run map at the next node, etc,
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4.

Map/Reduce performs a 'shuffle' and grouping. That means it...

- ☐ Shuffles <key,value> pairs into random bins and then within a bin it groups keys.
  - ☐ Shuffles <key,value> pairs into different partitions according to the key value, and then aggregates all pairs in 1 partition into 1 group.
  - ☐ Shuffles <key,value> pairs into different partitions according to the key value, and sorts within the partitions by key.
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5.

In the word count example, what is the key?

- ☐ The line number that contains the word.
  - ☐ The document id that contains the word.
  - ☐ The word itself.
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6.

Streaming map/reduce allows mappers and reducers to be written in what languages:

- ☐ java
  - ☐ python
  - ☐ Unix shell commands
  - ☐ R
  - ☒ All of the above
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7.

The assignment asked you to run with 2 reducers. When you use 2 reducers instead of 1 reducer, what is the difference in global sort order?

- ☒ With 1 reducer, but not 2 reducers, the word counts are in global sort order by word.
  - ☐ With 2 reducers, but not 1 reducer, the word counts are in global sort order by word.
  - ☐ With 1 reducer or 2 reducers, the word counts are in global sort order by word.
  - ☐ With 1 reducer or 2 reducers, the word counts are NOT in global sort order by word.
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