



HADOOP-PR000007^{Q&As}

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**QUESTION 1**

In a MapReduce job with 500 map tasks, how many map task attempts will there be?

- A. It depends on the number of reduces in the job.
- B. Between 500 and 1000.
- C. At most 500.
- D. At least 500.
- E. Exactly 500.

Correct Answer: D

From Cloudera Training Course: Task attempt is a particular instance of an attempt to execute a task ?There will be at least as many task attempts as there are tasks ?If a task attempt fails, another will be started by the JobTracker ?Speculative execution can also result in more task attempts than completed tasks

QUESTION 2

You are developing a combiner that takes as input Text keys, IntWritable values, and emits Text keys, IntWritable values. Which interface should your class implement?

- A. Combiner
- B. Mapper
- C. Reducer
- D. Reducer
- E. Combiner

Correct Answer: D

QUESTION 3

Consider the following two relations, A and B.



```
A = LOAD 'data1' AS (a1:int,a2:chararray);
DUMP A;
(1,apple)
(3,orange)
(4,peach)
(2,cherry)

B = LOAD 'data2' AS (b1:chararray,b2:int);
DUMP B;
(Jim,2)
(Brian,4)
(Kim,0)
(Terry,3)
(Chris,2)
```

Which Pig statement combines A by its first field and B by its second field?

- A. C = DOIN B BY a1, A by b2;
- B. C = JOIN A by a1, B by b2;
- C. C = JOIN A a1, B b2;
- D. C = JOIN A SO, B \$1;

Correct Answer: B

QUESTION 4

Identify the utility that allows you to create and run MapReduce jobs with any executable or script as the mapper and/or the reducer?

- A. Oozie
- B. Sqoop
- C. Flume
- D. Hadoop Streaming
- E. mapred

Correct Answer: D

Explanation: Hadoop streaming is a utility that comes with the Hadoop distribution. The utility allows you to create and run Map/Reduce jobs with any executable or script as the mapper and/or the reducer.

Reference: <http://hadoop.apache.org/common/docs/r0.20.1/streaming.html> (Hadoop Streaming, second sentence)

QUESTION 5

How are keys and values presented and passed to the reducers during a standard sort and shuffle phase of MapReduce?



- A. Keys are presented to reducer in sorted order; values for a given key are not sorted.
- B. Keys are presented to reducer in sorted order; values for a given key are sorted in ascending order.
- C. Keys are presented to a reducer in random order; values for a given key are not sorted.
- D. Keys are presented to a reducer in random order; values for a given key are sorted in ascending order.

Correct Answer: A

Explanation: Reducer has 3 primary phases:

1.

Shuffle

The Reducer copies the sorted output from each Mapper using HTTP across the network.

2.

Sort

The framework merge sorts Reducer inputs by keys (since different Mappers may have output the same key).

The shuffle and sort phases occur simultaneously i.e. while outputs are being fetched they are merged.

SecondarySort

To achieve a secondary sort on the values returned by the value iterator, the application should extend the key with the secondary key and define a grouping comparator. The keys will be sorted using the entire key, but will be grouped using the grouping comparator to decide which keys and values are sent in the same call to reduce.

3. Reduce In this phase the reduce(Object, Iterable, Context) method is called for each in the sorted inputs.

The output of the reduce task is typically written to a RecordWriter via TaskInputOutputContext.write (Object, Object).

The output of the Reducer is not re-sorted.

Reference: org.apache.hadoop.mapreduce, Class Reducer

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