

Map/Reduce Quiz

Due Oct 10 at 11:59pm**Points** 100**Questions** 5**Available** Oct 10 at 12pm - Oct 10 at 11:59pm 11 hours and 59 minutes**Time Limit** 30 Minutes

Instructions

This quiz covers information from Topic 4, covering the Map/Reduce algorithm. It talks about the different programs that make up the map/reduce system, covers what each one does, and the type of data output by each.

This quiz is on-line through Canvas, and is open notes, but is closed internet, closed collaboration, closed social media. Do not share the questions or the answers with other people.

We will be taking this quiz during our class session. We will discuss the details during the preceding lecture.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	4 minutes	100 out of 100

Score for this quiz: **100** out of 100

Submitted Oct 10 at 5:27pm

This attempt took 4 minutes.

	Question 1	20 / 20 pts
	Match each of the programs in the Map/Reduce system with its task.	
Correct!	Combine	Compute intermediate re: ▾
Correct!	Map	

Correct!

Filter, cleaning, extracting ▾

Reduce

Condensing the possible ▾

Correct!**Shuffle**

Collating the possible val ▾

Question 2**20 / 20 pts**

Which of the following tasks is typically **not** done by the mapper?

- ☐ May decide to skip an entire record
- ☐ May select only a portion of the data in a record
- ☒ Remove duplicate records
- ☐ Attempt to correct invalid data
- ☐ Change the representation of some values

Correct!**Question 3****20 / 20 pts**

Each line of output from the mapper has two parts. Select the answer that gives correctly names the two parts.

- ☐ Index, Total
- ☐ Index, Value

Correct!☒ Key, Value☐ Key, Total**Question 4****20 / 20 pts**

Match each sample line or lines to the program that **outputs** data in this form. *pick the best answer, so each program is matched with a line.*

Correct!**Shuffler**

one line: Jan-01,[37,35] ε ∨

Correct!**Mapper**

one line: Jan-01,37 anotr ∨

Correct!**Reducer**

one line: Jan-01,37 anotr ∨

Question 5**20 / 20 pts**

For a distributed Map/Reduce run which has a multi-part, which program only runs on one computer of the cluster (while the other programs run on all or almost all of the computers).

☐ Mapper☐ Shuffle☐ Combine**Correct!**☒ Reduce



Quiz Score: **100** out of 100