

Week 5 Quiz

10 试题

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1.

Which of the following is **not** true about GFS?

- ☐ The GFS keeps multiple replicas of the same file chunk.
- ☒ The file data transfer happens directly between the GFS client and the GFS master.
- ☐ The file data transfer happens directly between the GFS client and the GFS chunkservers.

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2.

MapReduce allows parallelizing the creation of the inverted index.

- ☐ False
- ☒ True

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3.

In MapReduce, the Reduce function is called for each unique key of the output key-value pairs from the Map function.

☐ False

☒ True

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4.

Which of the following would cause a web page P to have a higher PageRank score?

☒ Add to another page Q a link that points to page P

☐ Add to page P a link that points to another page Q

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5.

Imagine if the web is fully connected with N pages such that for any pair of pages, P and Q, there exists a link from P to Q, then which of the following is true?

☐ At least one page will have a PageRank score larger than $1/N$.

☒ All the pages will have a PageRank score of $1/N$.

☐ At least one page will have a PageRank score smaller than $1/N$.

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6.

Which of the following is/are the difference(s) between pseudo and implicit feedback?

☒ Pseudo feedback assumes top ranked documents are relevant.

- ☒ Implicit feedback assumes user-clicked documents are relevant.
 - ☐ Both methods do not involve user activity.
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7.

What is true about Rocchio feedback?

- ☒ It can be used for relevance feedback and also pseudo feedback.
 - ☐ Negative examples are as important as positive examples.
 - ☐ It works the best if you discard original query weights during feedback.
 - ☐ All words are used (no truncation) so that performance and efficiency can be guaranteed.
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8.

The advantages of incremental crawling are:

- ☒ It learns from past experience.
 - ☐ It adds overhead.
 - ☒ It targets frequently accessed pages.
 - ☒ It targets frequently updated pages.
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9.

What is NOT the reason that PageRank works better than "citation counting"?

- ☐ PageRank considers "indirect citations."
- ☐ PageRank has smoothing.
- ☒ It utilizes text information other than link information.

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10.

What is WRONG about HITS algorithm?

- ☐ It has two sets of parameters: a (authority) and h (hub).
- ☒ The adjacency matrix is symmetric.
- ☐ It's an iterative algorithm.



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