Algorithms → String algorithms → String hashing

String hashing → Rolling hashing

📶 Hard   🕐 1 minute   ❓

What statements below about the rolling hash property are correct?

📄 Report a typo

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☐ The polynomial hash function is not a rolling hash since a hash value for this function depends on the order of symbols in a string.

☑ The polynomial hash function is a rolling hash since if we know a hash value for a substring, it is possible to calculate a hash value for a neighboring substring in $O(1)$.

☐ If a hash function is a rolling hash, then it does not have collisions.

☐ The linear hash function is a rolling hash since a hash value for this function does not depend on the order of symbols in a string.

✓ Correct.

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