Algorithms → String algorithms → Knuth-Morris-Pratt algorithm

Knuth-Morris-Pratt algorithm →
Statements

📊 Medium   🕐 1 minute   ❓

Which of the statements below about the KMP algorithm is correct?

📄 Report a typo

↴ Select one option from the list

○ The algorithm compares a pattern with substrings of a text trying to find a complete matching. To decrease the number of comparisons, it uses the prefix function for finding an optimal pattern shift.

○ The algorithm calculates the prefix function for both a pattern and a text first, then compares them to find the pattern in the text.

○ The algorithm calculates the prefix function for a text first, then uses this prefix function to find a pattern in the text.

○ The algorithm compares a pattern with substring of a text trying to find a complete matching. In case of a mismatch, the algorithm shifts the pattern by one symbol and starts a new iteration.

✓ Correct.

35 users liked this problem. **1** didn't like it. **What about you?**

😍 🙂 😐 🙁 😡

Continue

Comments (0)   Hints (0)   Useful links (0)   Show discussion