COMP9319 Exercises

Solution: Talk to us at the consultation of for the question with the newers below.

Question 1

Suppose that the BWT e

Derive the original string

Ans: compression\$



T(S) = n rsoocimpse

Question 2

WeChat: cstutorcs

Suppose that the BWT encoded string BWT(S) = e\$mcoosrmho

Derive the original string Assignment Project Exam Help

Ans: chromosome\$

Email: tutorcs@163.com

Question 3

Suppose that the original Q_{thing} is 749389476

Since the given string ends with a unique symbol e, assume you do not need to introduce a

Ans: google

Question 4

The Boyer-Moore Example (1) in Lecture Week 3 takes 11 comparisons to find the match of rithm on a pattern matching algorithm

Apply the Brute Force search and KMP to this example. How many comparisons are needed for each case? Which one (BF, KMP or BM) performs the worst?

Ans: both need 29 comparisons, so both are worse than BM.

Question 5

From the Boyer–Moore Example (2) of Lecture 3: find the pattern P: abacab from T: abacaabadcabacab

As mentioned in the lecture in Week 3, the steps shown in Boyer-Moore Example (2) do not consider the Good Suffix Rule for shifting. It only uses the last occurrence function (also called the bad character rule) for shifting.

2020/6/29 COMP9319 Exercise 3

Derive the good suffix table and apply the complete Boyer-Moore algorithm (i.e., with bad character and good suffix rules) to Example (2). How many comparisons are needed to find the match?

Ans: 15

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Question 6

From the KMP Example

Apply the complete Boy the KMP Example above

the pattern P: abacab from T: abacaabaccabacab

m (i.e., with bad character and good suffix rules) to arisons are needed to find the match?

Ans: 15

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Assignment Project Exam Help

Email: tutorcs@163.com

QQ: 749389476

https://tutorcs.com