Homework 06: Rabin-Karp Algorithm

Due May. 16, 2019

Instruction

Submit your answer to this question via PC^2 under your account by the posted due time. No late submissions will be accepted. Note that homework is opened-book, but no outside assistance is permitted.

Problem

Given a text txt[0.. n_t -1], a pattern pat[0..n_p-1], the number of slots in hash table m, and the number of characters in input alphabet a, write a function search(pat, txt, m, a) that prints **all occurrences** of pat in txt. You may assume that $n_t > n_p$.

Sample input

Searching for Patterns,rchi,101,256
Smartphone photo,ph,101,256

Sample output

Pattern found at index 3
Done
Pattern found at index 5
Pattern found at index 11
Done