Homework 06: Substring Searching Problem

Due Tuesday, December 12th, 2017

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 string s[0..n-1] and a pattern p[0..m-1], write a hash function that prints all occurrences of p[] in s[]. You may assume that n > m. [Warning: Input Data is pretty big so design a faster algorithm]

Sample input

THIS IS A TEST TEXT
TEST
AABAACAADAABAABA
AABA

Sample output

Pattern found at index 10
Pattern found at index 0
Pattern found at index 9
Pattern found at index 12