Analysis & Design of Algorithms

Semester III 2018-19

Lab - 9

Topics: To find substring pattern in the given string

INTRODUCTION

In this lab we would be finding substring pattern in the given string adjacency matrix is given below.

Problem statement: Given a text txt[0..n-1] and a pattern pat[0..m-1], write a function search(char pat[], char txt[]) that prints all occurrences of pat[] in txt[]. You may assume that n > m.

Write a program and compute the complexity using

- naive approach

- Rabin-Karp Algorithm

- Knuth Morris Pratt Algorithm