East West University

Department of Computer Science and Engineering

Course: CSE246 Algorithm Topic: String and Pattern matching Lab: 04

1. String matching: Implement a program to search for a pattern in a text using the naive string-matching algorithm.

|  |  |
| --- | --- |
| Sample input | Sample output |
| Text: "The quick brown fox jumps over the lazy dog."  Pattern: "fox" | Pattern found at index 16. |

1. Rabin-Karp: Implement a program to search for a pattern in a text using the Rabin-Karp algorithm.

|  |  |
| --- | --- |
| Sample input | Sample output |
| Text: "The quick brown fox jumps over the lazy dog."  Pattern: "fox" | Pattern found at index 16. |

1. Knuth-Morris-Pratt: Implement a program to search for a pattern in a text using the Knuth-Morris-Pratt algorithm.

|  |  |
| --- | --- |
| Sample input | Sample output |
| Text: "The quick brown fox jumps over the lazy dog."  Pattern: "fox" | Pattern found at index 16. |