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## **Video Table of Contents**

**Part 1. String Matching**

**Part 2. Data Structures Part II**

**Part 3. Programming Problems**

**Video Length:** 30 minutes

## **Selection Sort Algorithm**

**Description:** The **String Matching** algorithm is used to match text patterns in a character substring.

**Define** the **String Matching** algorithm exactly: Use a blank sheet of paper to practice writing notation .

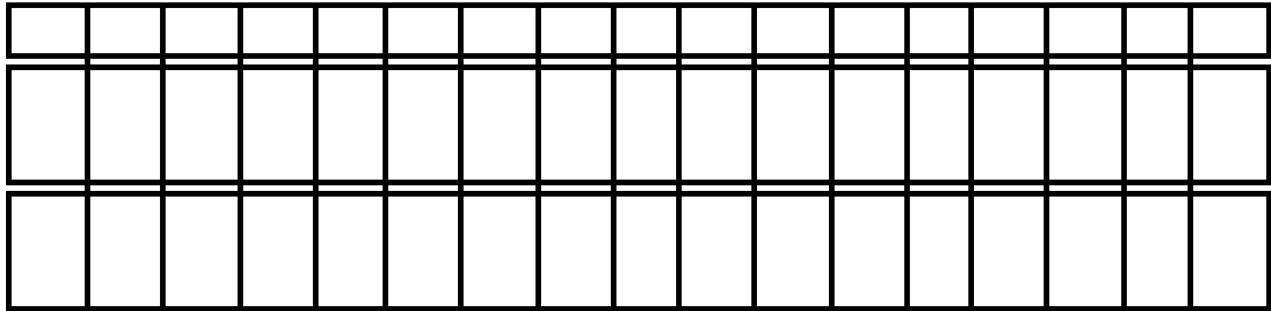
## **Coding Challenge**

Implement the **String Matching** algorithm in any programming language. Name ,data and save the document with today's data and name it **FirstName\_Date\_EP3**.

## **Terms and Concepts**

For each term and concept below use a blank sheet of paper and redefine each idea in your own conception of the definition.

1. DAG
2. Isomorphism
3. prefix table
4. Boyer Moore Horspool
5. substring
6. pattern
7. Knuth Morris Prett
8. sequence
9. Robin – Karp



**Lets Try It !**

Use practice paper replicate the image above. **Figure 4.1 Lets Try It ! String Search** Draw a box grid diagram for a string search algorithm..

- Step 1.** Make a simple phrase to occupy the grid on row 2,.
- Step 2.** Occupy the program code section with the algorithm you created.
- Step 3.** Number each cost in relation to the number of operation performed in respect to an input n for each program statement.
- Step 4.** Make a summation of the number of operations .

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