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Video Length: 30 minutes

String Matching Algorithms

Description: The **String Matching** algorithms are used to match text patterns in an array of characters or find a sequence of characters using a substring.

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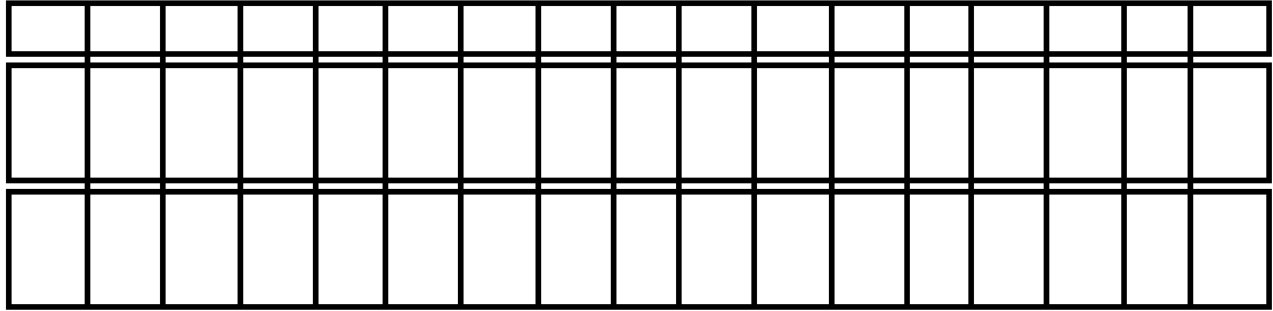
Coding Challenge

Create a random **String Matching** algorithm in any programming language. Name and date the project **example: (FirstLastName_Date_EP4)**.

Terms and Concepts

For each term and concept below use a blank sheet of paper to define each idea below.

1. hash function
2. suffix array
3. prefix table
4. Boyer Moore Horspool
5. substring
6. pattern
7. Knuth Morris Prett
8. sequence
9. Robin – Karp
10. String Matching

Lets Try It !

Use practice paper to 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 occuppy 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 .