Applied Data Science and Machine Learning Course

Course Instructor

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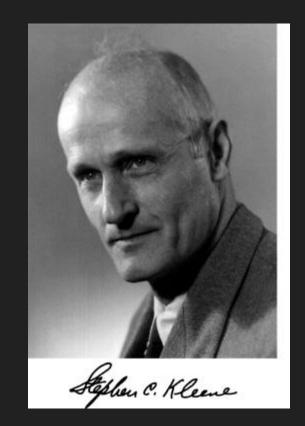
Regular Expression





Stephen Cole Kleene (American Scientist)

Invented Regular Expressions in the mid-1950s





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State Diagram

```
Pattern to Match:
Find all strings that :
    start with an 'a'
   ends with a 'c'.
    in between there can be any number
    of 'b's
Example:
    ac
    abc
    abbc
    abbbc
    abb......bbc
```



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State Diagram

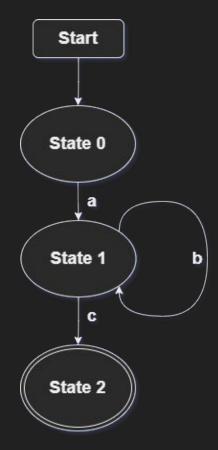
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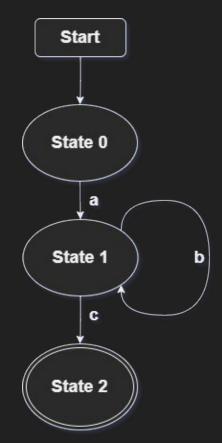
Example:

- ac
- abc
- abbc
- abbbc
- abb.....bbc





Regular Expression: ab*c





USES

03

- Search a string (match a pattern)
 - Break string into substring
 - Replace part of a string

