## Introduction

Convert simple regular expressions to minimum deterministic finite automaton. (Regex => NFA => DFA => Min-DFA)

## Supported grammars

- `r = (s)`
- `r = st`
- `r = s|t`
- `r = s*`
- `r = s+`
- `r = s?`
- `r = ϵ`
  `(Copy this character to input if needed)`

## Examples

- `(a|b)*`
- `(a*|b*)*`
- `((ϵ|a)b*)*`
- `(a|b)*abb(a|b)*`

Input: `Ilapf`

CONVERT

DFA: https://cyberzhg.github.io/toolbox/nfa2dfa?regex=SWxhcGY= (https://cyberzhg.github.io/toolbox/nfa2dfa?regex=SWxhcGY=)

| DFA STATE | Min-DFA STATE | TYPE | I | a | f | l | p |
|---|---|---|---|---|---|---|---|
| {A} | 1 | | 2 | | | | |
| {B} | 2 | | | | | 3 | |
| {C} | 3 | | | 4 | | | |
| {D} | 4 | | | | | | 5 |
| {E} | 5 | | | | 6 | | |
| {F} | 6 | accept | | | | | |




URL: https://cyberzhg.github.io/toolbox/min_dfa?regex=SWxhcGY=