TEXT: AABRAACADABRAACAADABRA

PATTERN: AACAA

* BUILD NFA

step 1:

index: | <-index = 0

pattern: AACAA <-same as index? no. prefix = 0

prefix: 0

step 2:

index: | <-index ++

pattern: AACAA <-same as index? yes. prefix = index position

prefix: 01

step 3:

index: | <-index = 0

pattern: AACAA <-same as index? no. prefix = 0

prefix: 010

step 4:

index: | <-index ++

pattern: AACAA <-same as index? yes. prefix = index position

prefix: 0101

step 5:

index: | <-index ++

pattern: AACAA <-same as index? yes. prefix = index position

prefix: 01012

* SEARCH THE PATTERN IN TEXT

step 1:

AABRAACADABRAACAADABRA <- found. move forward in pattern

AACAA

step 2:

AABRAACADABRAACAADABRA <- found. move forward in pattern

AACAA

step 3:

AABRAACADABRAACAADABRA <- not found. reset the pattern. started from the last matched character

AACAA

step 4:

AABRAACADABRAACAADABRA <- not found. reset the pattern. move froward

AACAA

step 5:

AABRAACADABRAACAADABRA <- not found. reset the pattern. move forward

AACAA

step 6:

AABRAACADABRAACAADABRA <- found. move forward in pattern

AACAA

step 7:

AABRAACADABRAACAADABRA <- found. move forward in pattern

AACAA

step 8:

AABRAACADABRAACAADABRA <- found. move forward in pattern

AACAA

step 9:

AABRAACADABRAACAADABRA <- found. move forward in pattern

AACAA

step 10:

AABRAACADABRAACAADABRA <- not found. reset the pattern. started from the last matched character

AACAA

step 11:

AABRAACADABRAACAADABRA <- not found. reset the pattern. move forward

AACAA

step 12:

AABRAACADABRAACAADABRA <- found. move forward in pattern

AACAA

step 13:

AABRAACADABRAACAADABRA <- not found. reset the pattern. move forward

AACAA

step 14:

AABRAACADABRAACAADABRA <- not found. reset the pattern. move forward

AACAA

step 15:

AABRAACADABRAACAADABRA <- found. move forward in pattern

AACAA

step 16:

AABRAACADABRAACAADABRA <- found. move forward in pattern

AACAA

step 17:

AABRAACADABRAACAADABRA <- found. move forward in pattern

AACAA

step 18:

AABRAACADABRAACAADABRA <- found. move forward in pattern

AACAA

step 19:

AABRAACADABRAACAADABRA <- found. move forward in pattern. is all mathced? yes

AACAA

prefix: 01012 <- we know that the first two positions are matched

step 19:

AABRAACADABRAACAADABRA <- not found. reset the pattern. move forward

AACAA

step 20:

AABRAACADABRAACAADABRA <- found. move forward in pattern

AACAA

step 21:

AABRAACADABRAACAADABRA <- not found. reset the pattern. move forward

AACAA

step 22:

AABRAACADABRAACAADABRA <- not found. reset the pattern. move forward

AACAA

step 22:

AABRAACADABRAACAADABRA <- found. move forward in pattern

AACAA