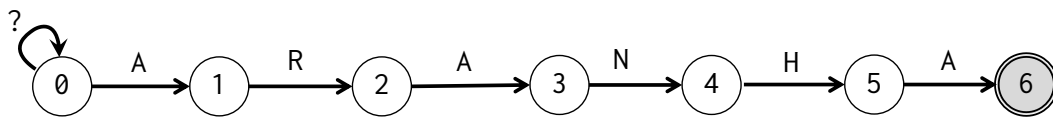


# KMP

- Criado por Donald Knuth, James Morris e Vaughan Pratt em 1977
- Baseado em uma variação de um diagrama de estados

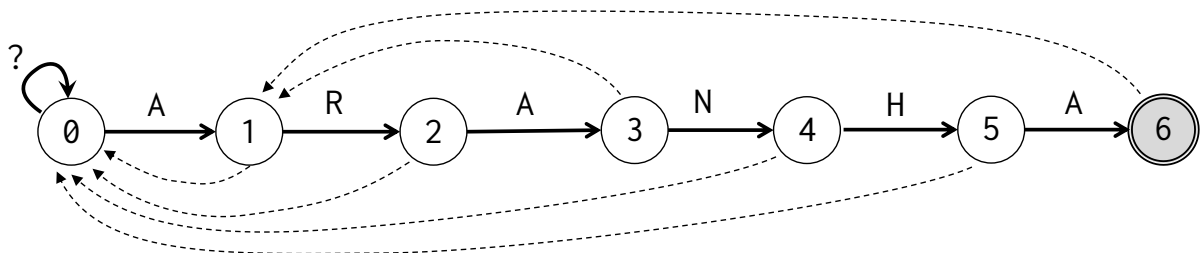


Vetor de transição == padrão  
(de eventos)

0	1	2	3	4	5
A	R	A	N	H	A

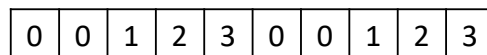
## Transições de falhas

- Transição de falha (baseada nas repetições do prefixo)



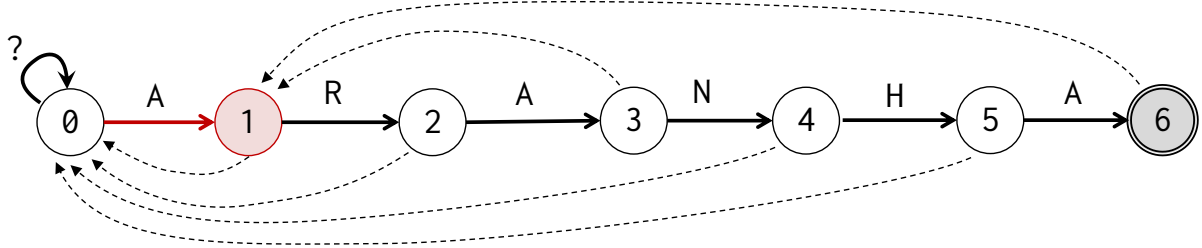
0	1	2	3	4	5
A	R	A	N	H	A
Vetor de transição de falha					
0	0	1	0	0	1

- 2º exemplo

[illegible]

## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1

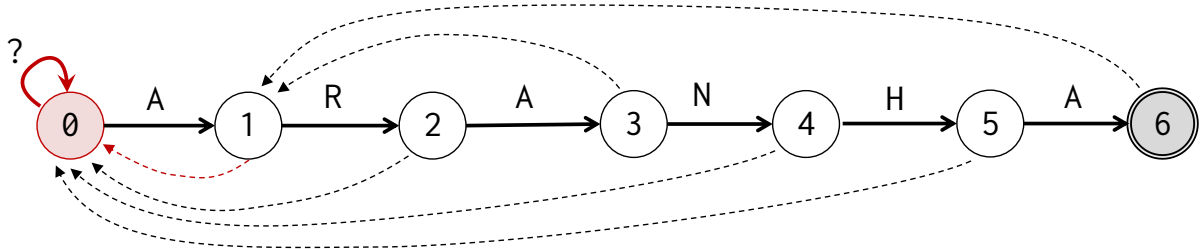


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]

## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1

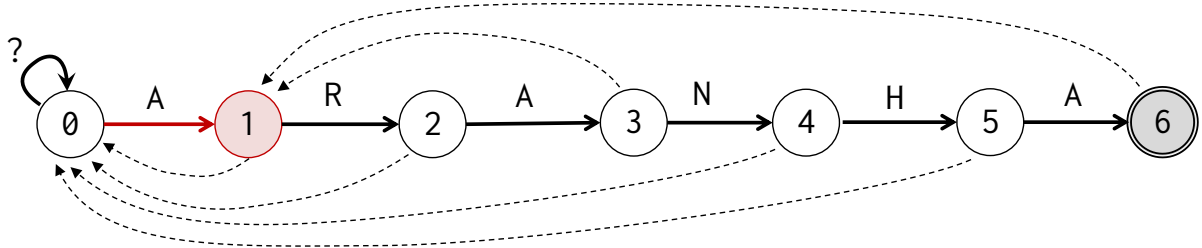


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]

## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1

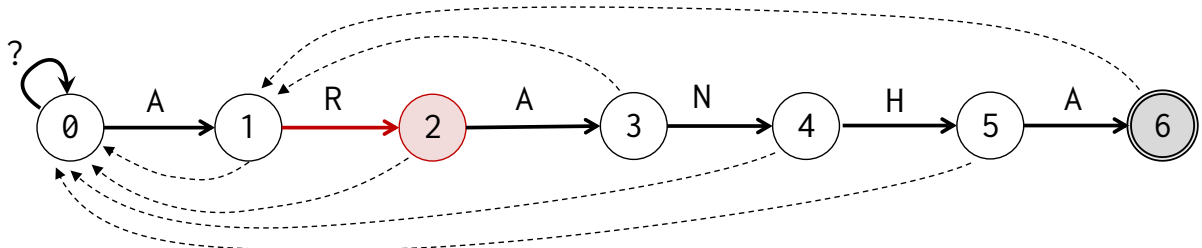


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]

## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1

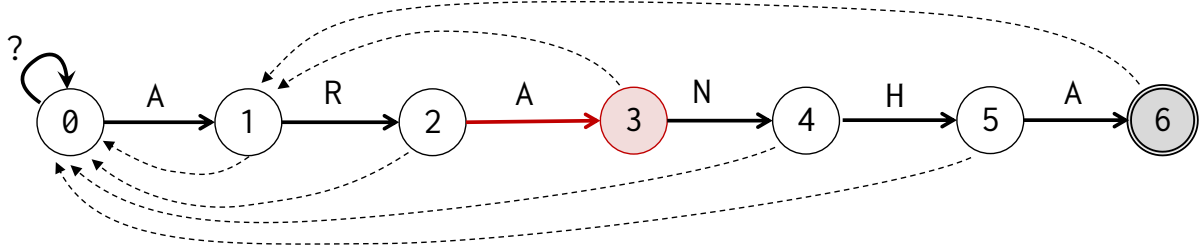


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]

## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1

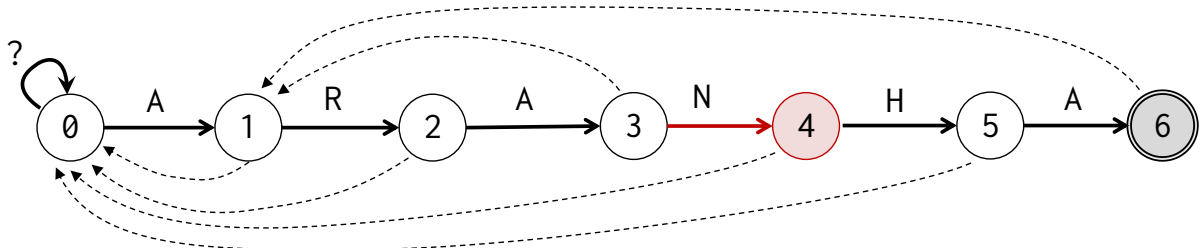


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]

## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1

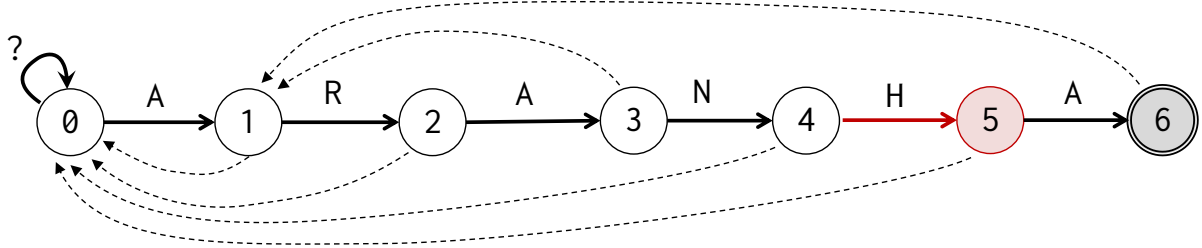


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]

## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1

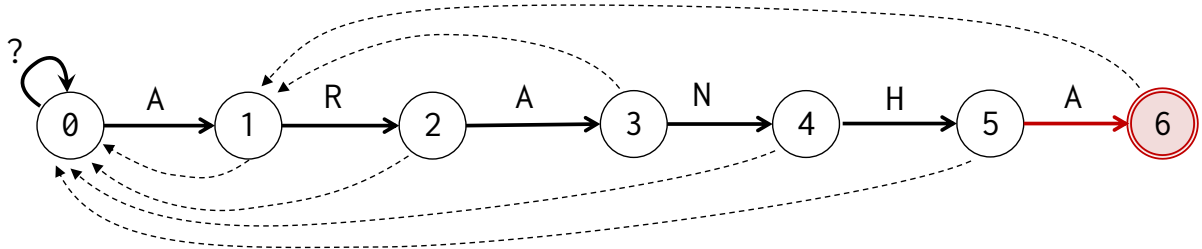


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]

## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1

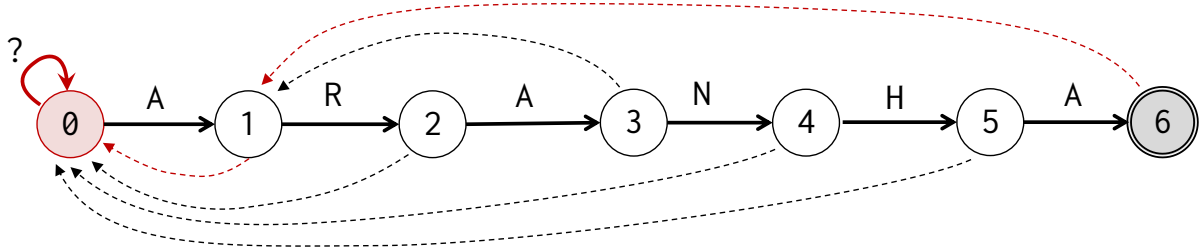


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]

## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1

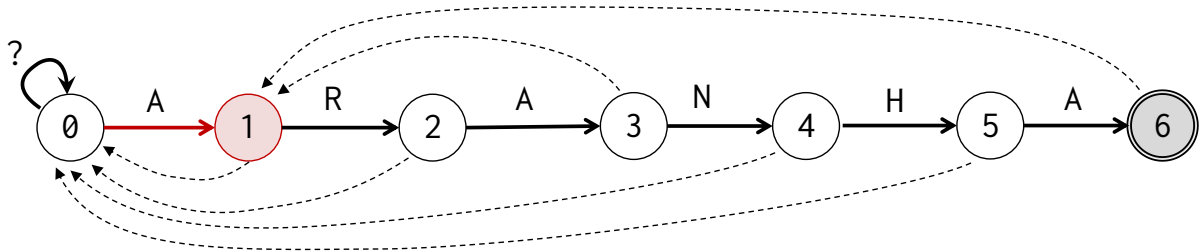


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]

## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1

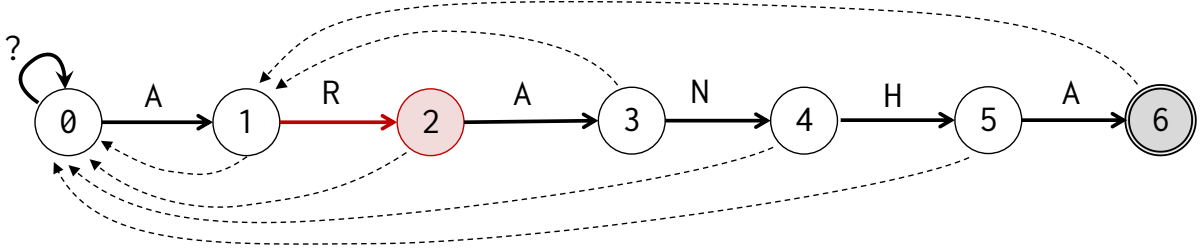


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]

## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1

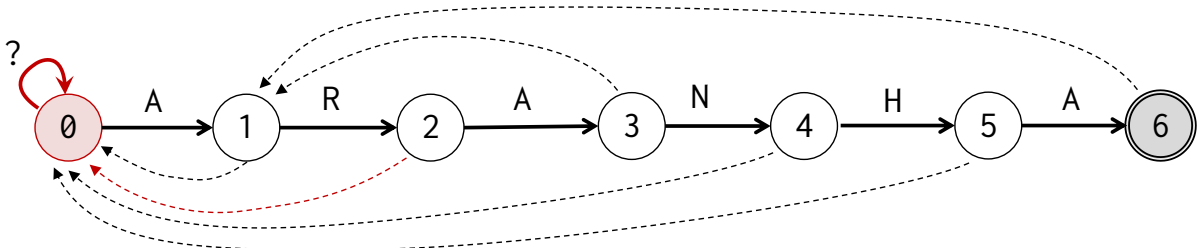


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]

## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1



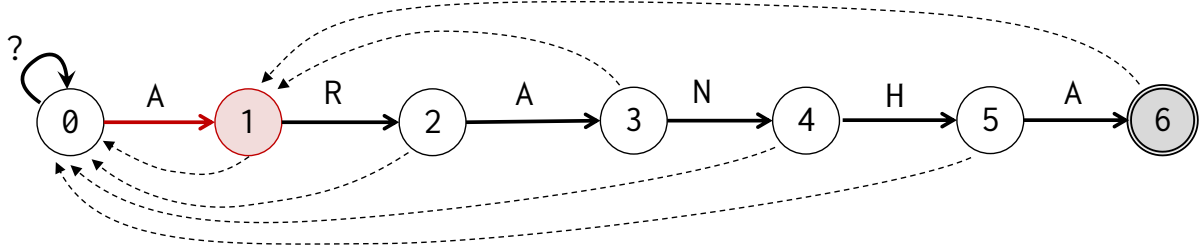
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]



## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1

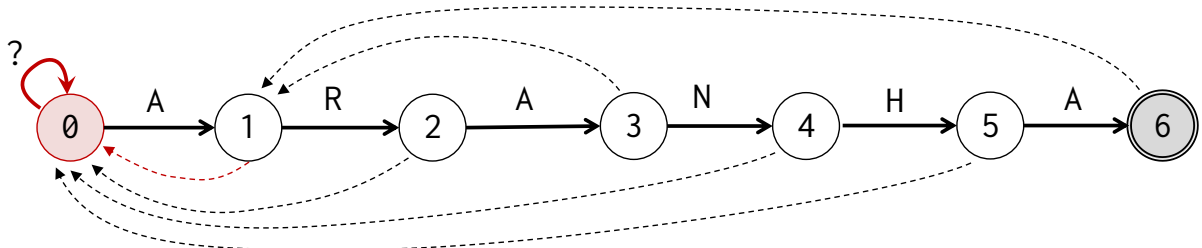


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]

## Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1

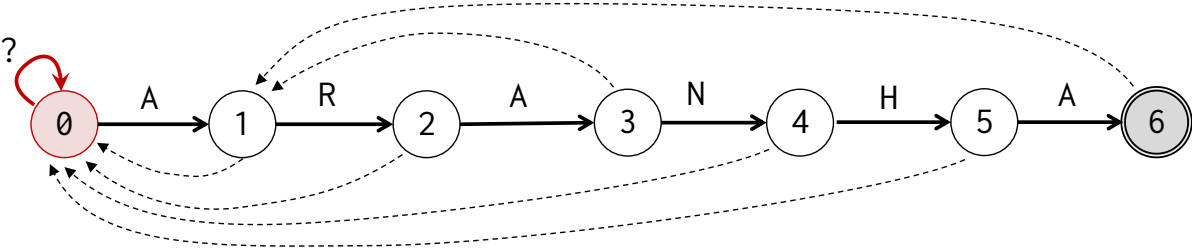


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

[illegible]

# Exemplo

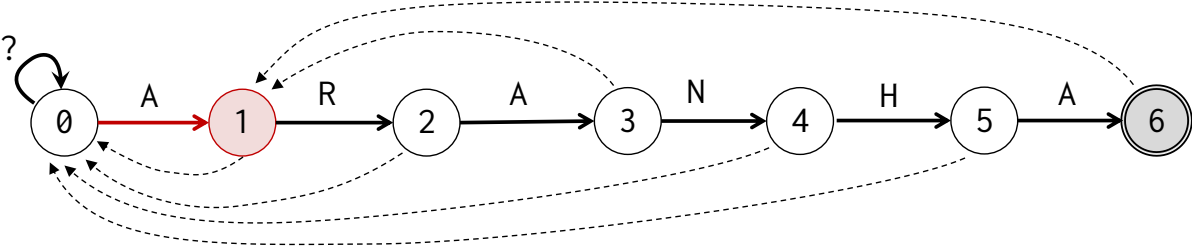
0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1



	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A
Estados	0	1	0	1	2	3	4	5	6	0	1	2	0	1	0	0								

# Exemplo

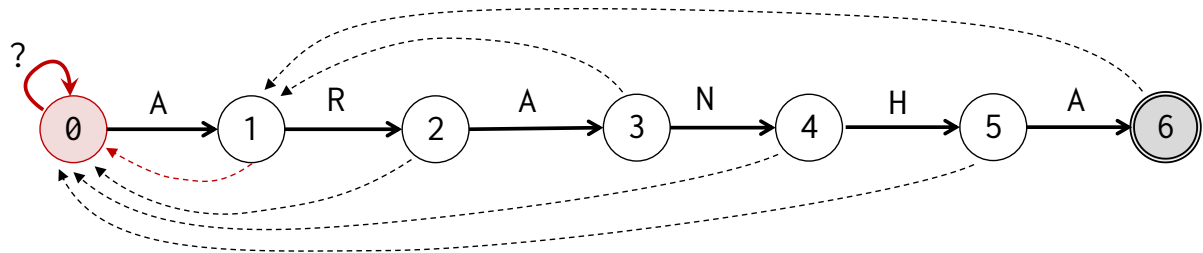
0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1



	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A
Estados	0	1	0	1	2	3	4	5	6	0	1	2	0	1	0	0	1							

# Exemplo

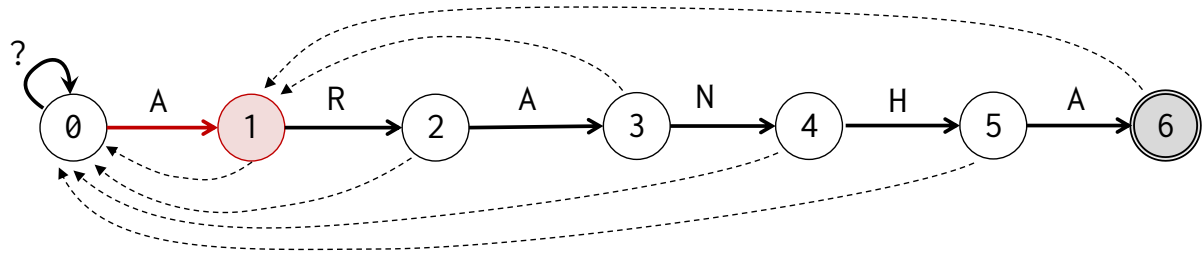
0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1



0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A
Estados	0	1	0	1	2	3	4	5	6	0	1	2	0	1	0	0	1	0					

# Exemplo

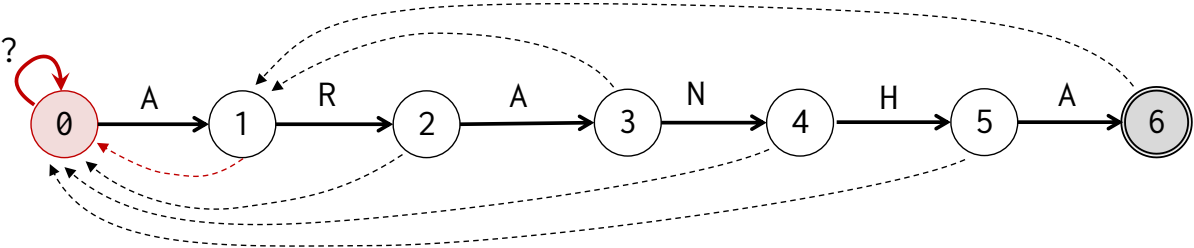
0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1



0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A
Estados	0	1	0	1	2	3	4	5	6	0	1	2	0	1	0	0	1	0	1				

# Exemplo

0	1	2	3	4	5
A	R	A	N	H	A
0	0	1	0	0	1



0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A		A	R	A	N	H	A		A	R	R	A	N	H	A		A		J	A	R	R	A

Estados	0	1	0	1	2	3	4	5	6	0	1	2	0	1	0	0	1	0	1	0				
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	--	--