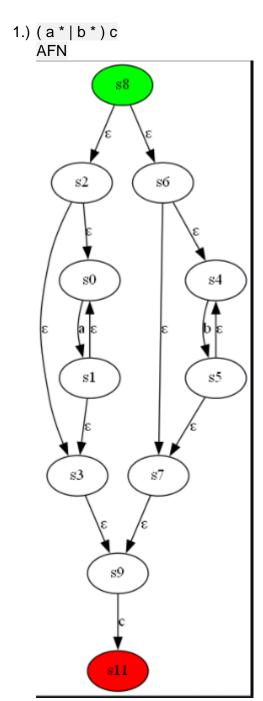
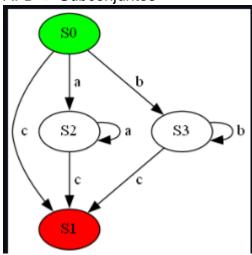
## Prelab B



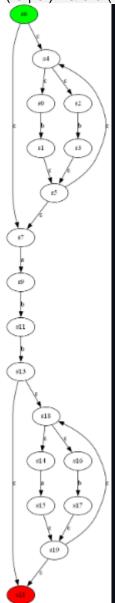
{'s8': {'ɛ': ['s2', 's6']}, 's2': {'ɛ': ['s3', 's0']}, 's3': {'ɛ': 's9'}, 's9': {'c': 's11'}, 's0': {'a': 's1'}, 's1': {'ɛ': ['s3', 's0']}, 's6': {'ɛ': ['s7', 's4']}, 's7': {'ɛ': 's9'}, 's4': {'b': 's5'}, 's5': {'ɛ': ['s7', 's4']}}

AFD -> Subconjuntos



# Transitions:

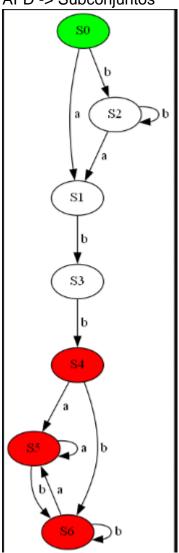
# 2.) (b|b) \* abb(a|b) \*



#### Transitions:

{'s6': {'ɛ': ['s7', 's4']}, 's7': {'a': 's9'}, 's9': {'b': 's11'}, 's11': {'b': 's13'}, 's13': {'ɛ': ['s21', 's18']}, 's18': {'ɛ': ['s14', 's16']}, 's14': {'a': 's15'}, 's15': {'ɛ': 's19'}, 's19': {'ɛ': ['s21', 's18']}, 's16': {'b': 's17'}, 's17': {'ɛ': 's19'}, 's4': {'ɛ': ['s0', 's2']}, 's0': {'b': 's1'}, 's1': {'ɛ': 's5'}, 's5': {'ɛ': ['s7', 's4']}, 's2': {'b': 's3'}, 's3': {'ɛ': 's5'}}

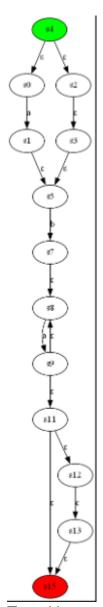
AFD -> Subconjuntos



### Transitions

{'S0': {'a': 'S1', 'b': 'S2'}, 'S1': {'b': 'S3'}, 'S2': {'a': 'S1', 'b': 'S2'}, 'S3': {'b': 'S4'}, 'S4': {'a': 'S5', 'b': 'S6'}, 'S6': {'a': 'S5', 'b': 'S6'}, 'S5': {'a': 'S5', 'b': 'S6'}}

# 3.) $(a | \epsilon) b (a + ) c$ ?

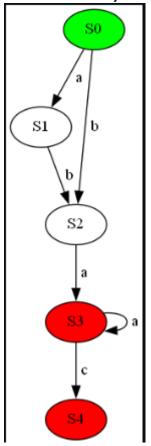


## Transitions:

 $\{ 's4': \{ '\epsilon': ['s0', 's2'] \}, 's0': \{ 'a': 's1' \}, 's1': \{ '\epsilon': 's5' \}, 's5': \{ 'b': 's7' \}, 's7': \{ '\epsilon': 's8' \}, 's8': \{ 'a': 's9' \}, 's9': \{ '\epsilon': ['s11', 's8'] \}, 's11': \{ '\epsilon': ['s15', 's8'] \}, 's11': \{ 's1' \}, 's1' \}, 's1' \}$ 

's12']}, 's12': {'c': 's13'}, 's13': {'ɛ': 's15'}, 's2': {'ɛ': 's3'}, 's3': {'ɛ': 's5'}}

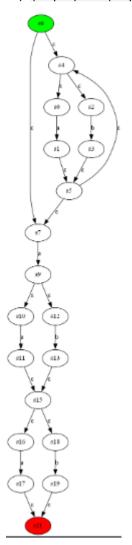
AFD -> Subconjuntos



# Transitions:

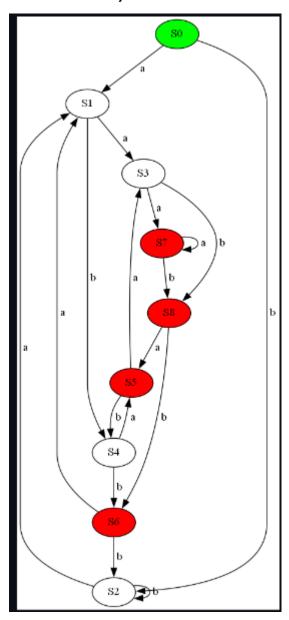
 $\{ \text{'S0': } \{ \text{'a': 'S1', 'b': 'S2'} \}, \text{'S1': } \{ \text{'b': 'S2'} \}, \text{'S2': } \{ \text{'a': 'S3'} \}, \text{'S3': } \{ \text{'a': 'S3'} \}, \text{'c': 'S4'} \}, \text{'S4': } \}$ 

## 4.) (a|b)\*a(a|b)(a|b)



### Transitions:

AFD -> Subconjuntos



### Transitions:

{'S0': {'a': 'S1', 'b': 'S2'}, 'S2': {'a': 'S1', 'b': 'S2'}, 'S1': {'a': 'S3', 'b': 'S4'}, 'S4': {'a': 'S5', 'b': 'S6'}, 'S3': {'a': 'S7', 'b': 'S8'}, 'S6': {'a': 'S1', 'b': 'S2'}, 'S7': {'a': 'S7', 'b': 'S8'}, 'S5': {'a': 'S3', 'b': 'S4'}, 'S8': {'a': 'S5', 'b': 'S6'}}