N_ROBOTIC_SYSTEM:
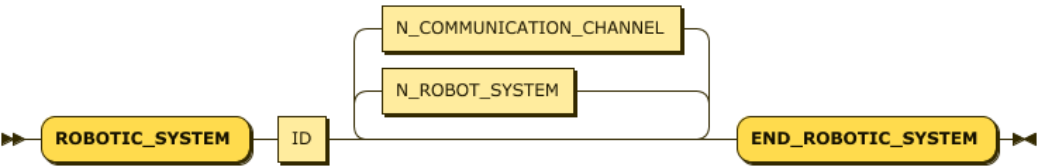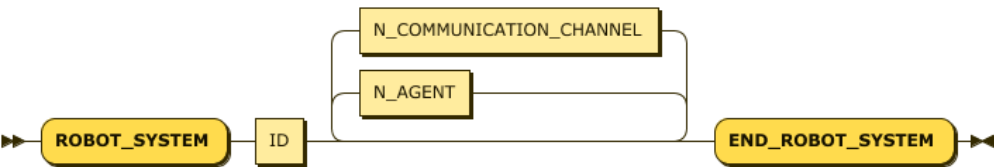


```
N_ROBOTIC_SYSTEM
        ::= 'ROBOTIC_SYSTEM' ID ( N_ROBOT_SYSTEM | N_COMMUNICATION_CHANNEL )* 'END_ROBOTIC_SYSTEM'
```

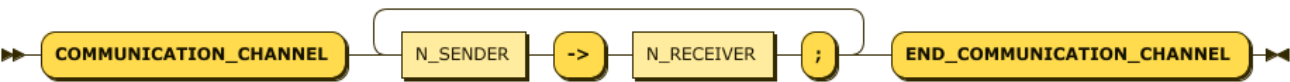no references

N_ROBOT_SYSTEM:


```
N_ROBOT_SYSTEM
        ::= 'ROBOT_SYSTEM' ID ( N_AGENT | N_COMMUNICATION_CHANNEL )* 'END_ROBOT_SYSTEM'
```

referenced by:

- N_ROBOTIC_SYSTEM

N_COMMUNICATION_CHANNEL:


```
N_COMMUNICATION_CHANNEL
        ::= 'COMMUNICATION_CHANNEL' ( N_SENDER '->' N_RECEIVER ';' )+ 'END_COMMUNICATION_CHANNEL'
```

referenced by:

- N_AGENT
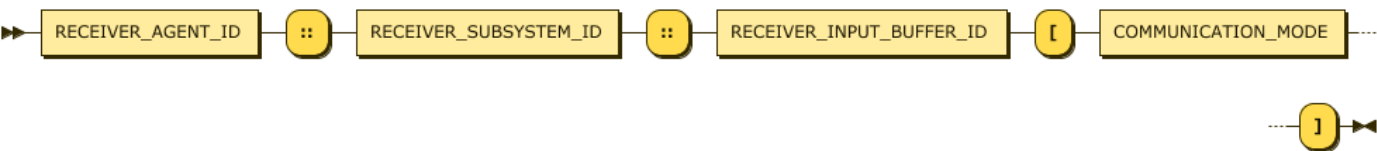- N_ROBOTIC_SYSTEM
- N_ROBOT_SYSTEM

N_SENDER:


```
N_SENDER ::= SENDER_AGENT_ID '::' SENDER_SUBSYSTEM_ID '::' SENDER_BUFFER_ID '[' COMMUNICATION_MODE ']'
```

referenced by:
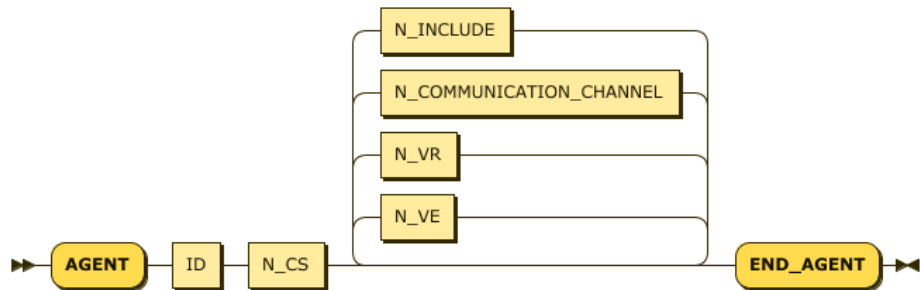
- N_COMMUNICATION_CHANNEL

N_RECEIVER:


```
N_RECEIVER
        ::= RECEIVER_AGENT_ID '::' RECEIVER_SUBSYSTEM_ID '::' RECEIVER_INPUT_BUFFER_ID '[' COMMUNICATION_MODE ']'
```
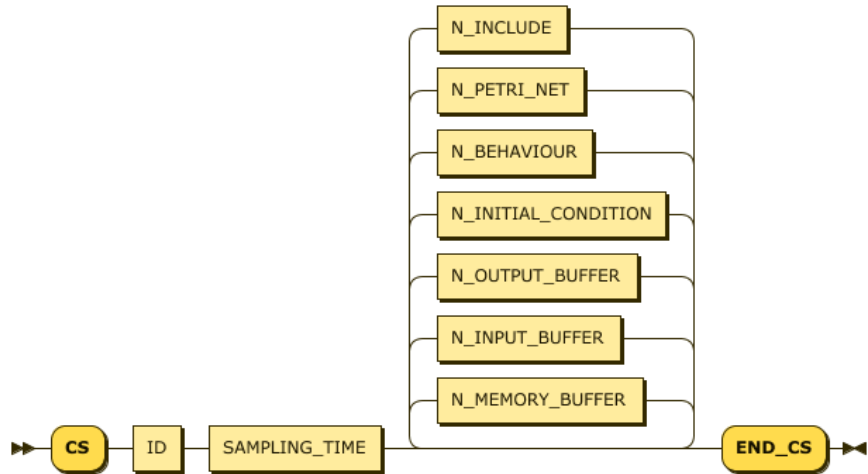
referenced by:

- N_COMMUNICATION_CHANNEL

N_AGENT:

```
N_AGENT   ::= 'AGENT' ID N_CS ( N_VE | N_VR | N_COMMUNICATION_CHANNEL | N_INCLUDE )* 'END_AGENT'
```

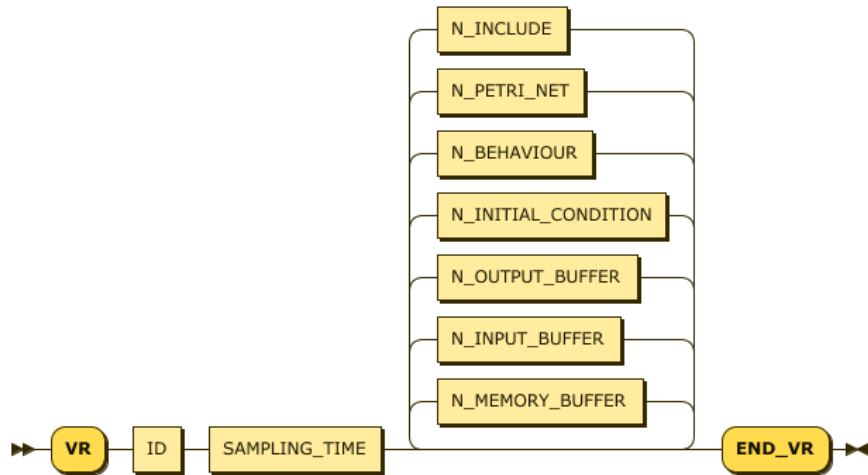referenced by:

- N_ROBOT_SYSTEM

N_CS:


```
N_CS      ::= 'CS' ID SAMPLING_TIME ( N_MEMORY_BUFFER | N_INPUT_BUFFER | N_OUTPUT_BUFFER | N_INITIAL_CONDITION | N_BEHAVIOUR | N_PETRI_NET
              | N_INCLUDE )* 'END_CS'
```

referenced by:
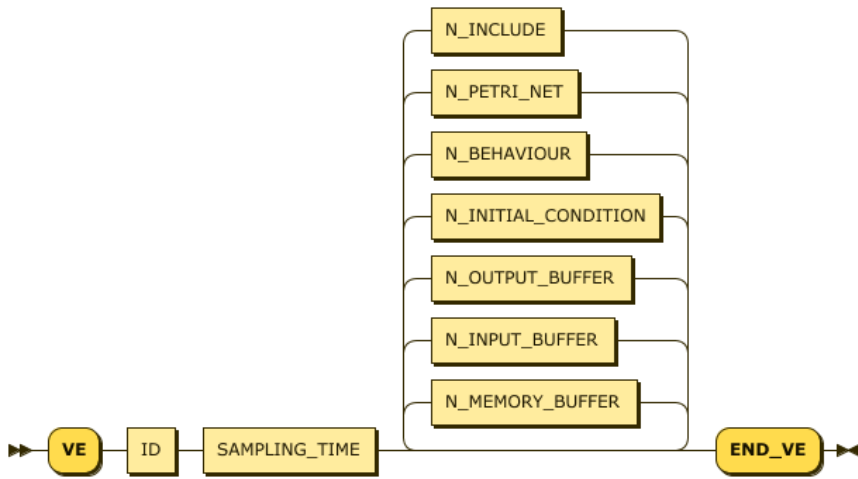
- N_AGENT

N_VR:


```
N_VR      ::= 'VR' ID SAMPLING_TIME ( N_MEMORY_BUFFER | N_INPUT_BUFFER | N_OUTPUT_BUFFER | N_INITIAL_CONDITION | N_BEHAVIOUR | N_PETRI_NET
              | N_INCLUDE )* 'END_VR'
```
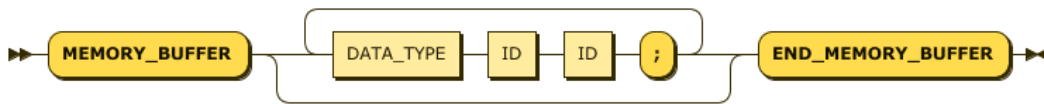
referenced by:

- N_AGENT

N_VE:

```
N_VE      ::= 'VE' ID SAMPLING_TIME ( N_MEMORY_BUFFER | N_INPUT_BUFFER | N_OUTPUT_BUFFER | N_INITIAL_CONDITION | N_BEHAVIOUR | N_PETRI_NET
          | N_INCLUDE )* 'END_VE'
```
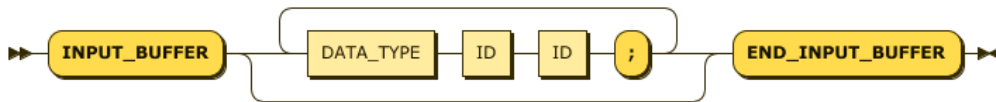
referenced by:

- N_AGENT

N_MEMORY_BUFFER:


```
N_MEMORY_BUFFER
        ::= 'MEMORY_BUFFER' ( DATA_TYPE ID ID ';' )* 'END_MEMORY_BUFFER'
```

referenced by:

- N_CS
- N_VE
- N_VR

N_INPUT_BUFFER:
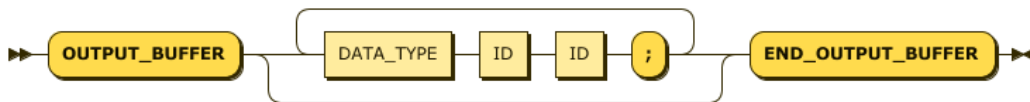


```
N_INPUT_BUFFER
        ::= 'INPUT_BUFFER' ( DATA_TYPE ID ID ';' )* 'END_INPUT_BUFFER'
```

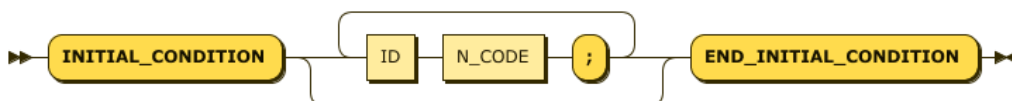referenced by:

- N_CS
- N_VE
- N_VR

N_OUTPUT_BUFFER:


```
N_OUTPUT_BUFFER
        ::= 'OUTPUT_BUFFER' ( DATA_TYPE ID ID ';' )* 'END_OUTPUT_BUFFER'
```

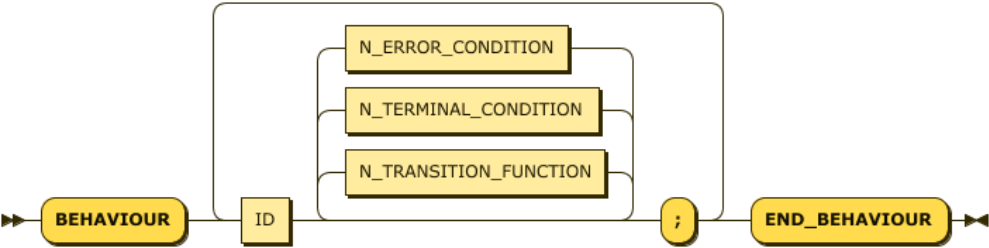referenced by:

- N_CS
- N_VE
- N_VR

N_INITIAL_CONDITION:


```
N_INITIAL_CONDITION
```

```
      ::= 'INITIAL_CONDITION' ( ID N_CODE ';' )* 'END_INITIAL_CONDITION'
```

referenced by:

- N_CS
- N_VE
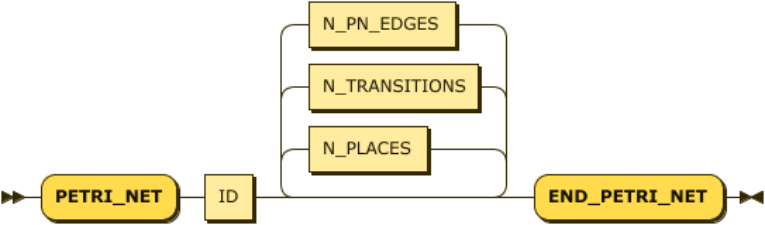- N_VR

N_BEHAVIOUR:


```
N_BEHAVIOUR
      ::= 'BEHAVIOUR' ( ID ( N_TRANSITION_FUNCTION | N_TERMINAL_CONDITION | N_ERROR_CONDITION )* ';' )+ 'END_BEHAVIOUR'
```

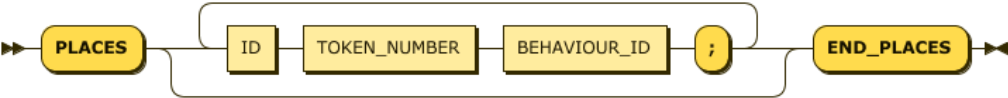referenced by:

- N_CS
- N_VE
- N_VR

N_PETRI_NET:


```
N_PETRI_NET
      ::= 'PETRI_NET' ID ( N_PLACES | N_TRANSITIONS | N_PN_EDGES )* 'END_PETRI_NET'
```
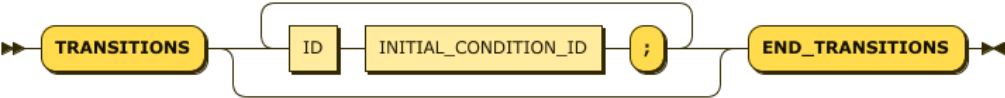
referenced by:

- N_CS
- N_VE
- N_VR

N_PLACES:


```
N_PLACES ::= 'PLACES' ( ID TOKEN_NUMBER BEHAVIOUR_ID ';' )* 'END_PLACES'
```

referenced by:

- N_PETRI_NET

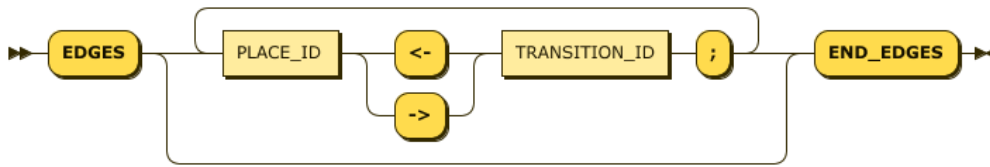## N_TRANSITIONS:


```
N_TRANSITIONS
      ::= 'TRANSITIONS' ( ID INITIAL_CONDITION_ID ';' )* 'END_TRANSITIONS'
```

referenced by:

- N_PETRI_NET

N_PN_EDGES:

```
N_PN_EDGES
        ::= 'EDGES' ( PLACE_ID ( '<-' | '->' ) TRANSITION_ID ';' )* 'END_EDGES'
```
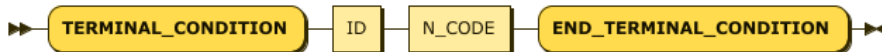
referenced by:

- N PETRI NET

N_INCLUDE:


```
N_INCLUDE
        ::= 'INCLUDE' N_CODE 'END_INCLUDE'
```

referenced by:

- N AGENT
- N CS
- N VE
- N VR

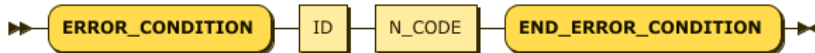## N_TERMINAL_CONDITION:


```
N_TERMINAL_CONDITION
        ::= 'TERMINAL_CONDITION' ID N_CODE 'END_TERMINAL_CONDITION'
```

referenced by:

- N BEHAVIOUR
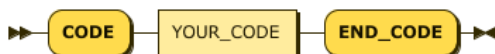
N_ERROR_CONDITION:


```
N_ERROR_CONDITION
        ::= 'ERROR_CONDITION' ID N_CODE 'END_ERROR_CONDITION'
```

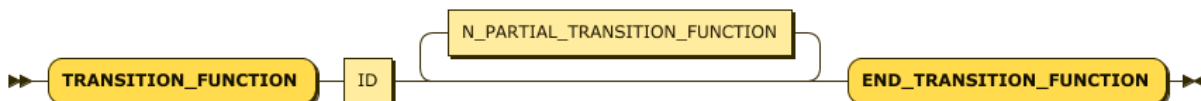referenced by:

- N BEHAVIOUR

N_CODE:


```
N_CODE    ::= 'CODE' YOUR_CODE 'END_CODE'
```

referenced by:

- N ERROR CONDITION
- N INCLUDE
- N INITIAL CONDITION
- N PARTIAL TRANSITION FUNCTION
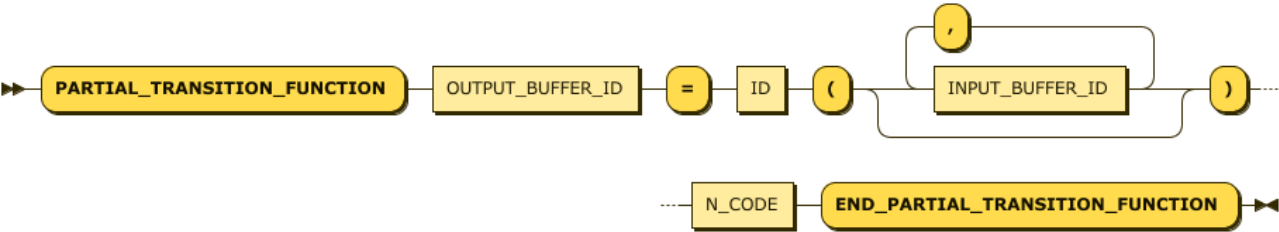- N TERMINAL CONDITION

N_TRANSITION_FUNCTION:


```
N_TRANSITION_FUNCTION
        ::= 'TRANSITION_FUNCTION' ID N_PARTIAL_TRANSITION_FUNCTION* 'END_TRANSITION_FUNCTION'
```

referenced by:

- N BEHAVIOUR

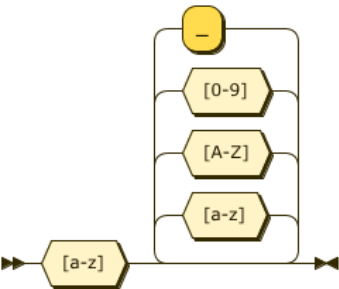## N_PARTIAL_TRANSITION_FUNCTION:


```
N_PARTIAL_TRANSITION_FUNCTION
        ::= 'PARTIAL_TRANSITION_FUNCTION' OUTPUT_BUFFER_ID '=' ID '(' ( INPUT_BUFFER_ID ( ',' INPUT_BUFFER_ID )* )? ')' N_CODE
            'END_PARTIAL_TRANSITION_FUNCTION'
```
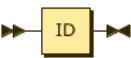
referenced by:

- N_TRANSITION_FUNCTION

ID:


```
ID      ::= [a-z] [a-zA-Z0-9_]*
```

referenced by:

- BEHAVIOUR_ID
- DATA_TYPE
- INITIAL_CONDITION_ID
- INPUT_BUFFER_ID
- N_AGENT
- N_BEHAVIOUR
- N_CS
- N_ERROR_CONDITION
- N_INITIAL_CONDITION
- N_INPUT_BUFFER
- N_MEMORY_BUFFER
- N_OUTPUT_BUFFER
- N_PARTIAL_TRANSITION_FUNCTION
- N_PETRI_NET
- N_PLACES
- N_ROBOTIC_SYSTEM
- N_ROBOT_SYSTEM
- N_TERMINAL_CONDITION
- N_TRANSITIONS
- N_TRANSITION_FUNCTION
- N_VE
- N_VR
- OUTPUT_BUFFER_ID
- PLACE_ID
- RECEIVER_AGENT_ID
- RECEIVER_INPUT_BUFFER_ID
- RECEIVER_SUBSYSTEM_ID
- SENDER_AGENT_ID
- SENDER_BUFFER_ID
- SENDER_SUBSYSTEM_ID
- TRANSITION_ID
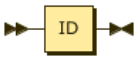
SENDER_AGENT_ID:


```
SENDER_AGENT_ID
        ::= ID
```
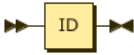
referenced by:

- N_SENDER

SENDER_SUBSYSTEM_ID:

```
SENDER_SUBSYSTEM_ID
        ::= ID
```
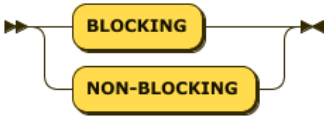
referenced by:

- N_SENDER

SENDER_BUFFER_ID:


```
SENDER_BUFFER_ID
        ::= ID
```

referenced by:

- N_SENDER

COMMUNICATION_MODE:


```
COMMUNICATION_MODE
        ::= 'BLOCKING'
          | 'NON-BLOCKING'
```
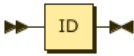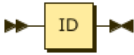
referenced by:

- N_RECEIVER
- N_SENDER

RECEIVER_AGENT_ID:


```
RECEIVER_AGENT_ID
        ::= ID
```

referenced by:

- N_RECEIVER

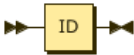## RECEIVER_SUBSYSTEM_ID:


```
RECEIVER_SUBSYSTEM_ID
        ::= ID
```

referenced by:

- N_RECEIVER

RECEIVER_INPUT_BUFFER_ID:
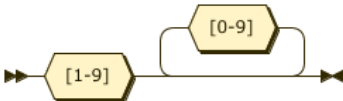


```
RECEIVER_INPUT_BUFFER_ID
        ::= ID
```

referenced by:

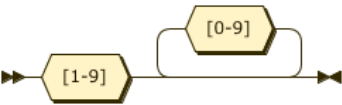- N_RECEIVER

SAMPLING_TIME:

```
SAMPLING_TIME
        ::= [1-9] [0-9]*
```

referenced by:

- N_CS
- N_VE
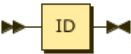- N_VR

TOKEN_NUMBER:


```
TOKEN_NUMBER
        ::= [1-9] [0-9]*
```

referenced by:

- N_PLACES

DATA_TYPE:


```
DATA_TYPE
        ::= ID
```
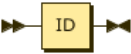
referenced by:

- N_INPUT_BUFFER
- N_MEMORY_BUFFER
- N_OUTPUT_BUFFER

INITIAL_CONDITION_ID:


```
INITIAL_CONDITION_ID
        ::= ID
```

referenced by:

- N_TRANSITIONS

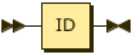## BEHAVIOUR_ID:


```
BEHAVIOUR_ID
        ::= ID
```

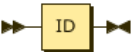referenced by:

- N_PLACES

TRANSITION_ID:


```
TRANSITION_ID
        ::= ID
```

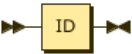referenced by:

- N_PN_EDGES

PLACE_ID:


```
PLACE_ID ::= ID
```

referenced by:

- N_PN_EDGES

OUTPUT_BUFFER_ID:
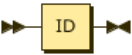


```
OUTPUT_BUFFER_ID
        ::= ID
```

referenced by:
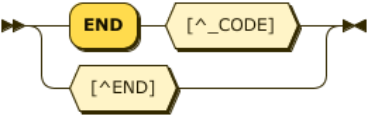
- N_PARTIAL_TRANSITION_FUNCTION

INPUT_BUFFER_ID:


```
INPUT_BUFFER_ID
        ::= ID
```

referenced by:

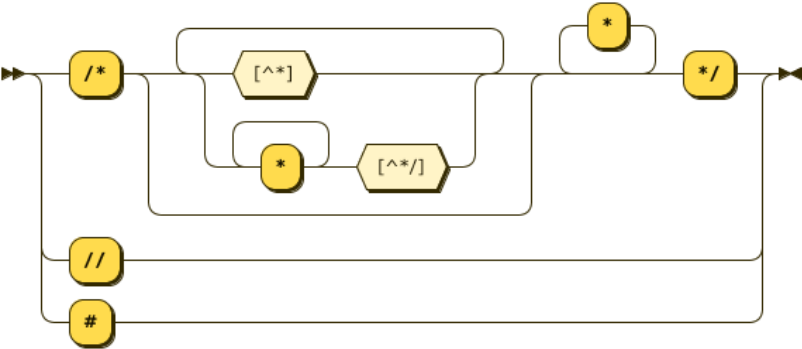- N_PARTIAL_TRANSITION_FUNCTION

YOUR_CODE:


```
YOUR_CODE
        ::= 'END' [^_CODE]
          | [^END]
```

referenced by:

- N_CODE

COMMENT:


```
COMMENT  ::= '/*' ( [^*] | '*'+ [^*/] )* '*'* '*/'
           | '//'
           | '#'
```

no references

... generated by Railroad Diagram Generator ⊗