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| CS 440 |
| Programming Languages and Translators |
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| MCL: Lex analyzer report |
| 02/12/2017 |

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# Tokens in MCL language

Basic element:

Digit:

ID:

Build-in functions:

\_row\_|\_colum\_|\_printm\_|\_{ID}\_

Basic Data;

integer: {Digit}+

real number: {DIGIT}+"."{DIGIT}\*

Keyword:

Data Type: int|real|matrix

Condition: if|else|return|def|for|Null

Operators:

Basic operators: "+"|"-"|"\*"|"/"|"="|"^"

Matrix operators: ".\*"|"./"

Boolean operators: "=="|"!="|"&&"|"||"|"<"|">"|"<="|">="

Punctuations:

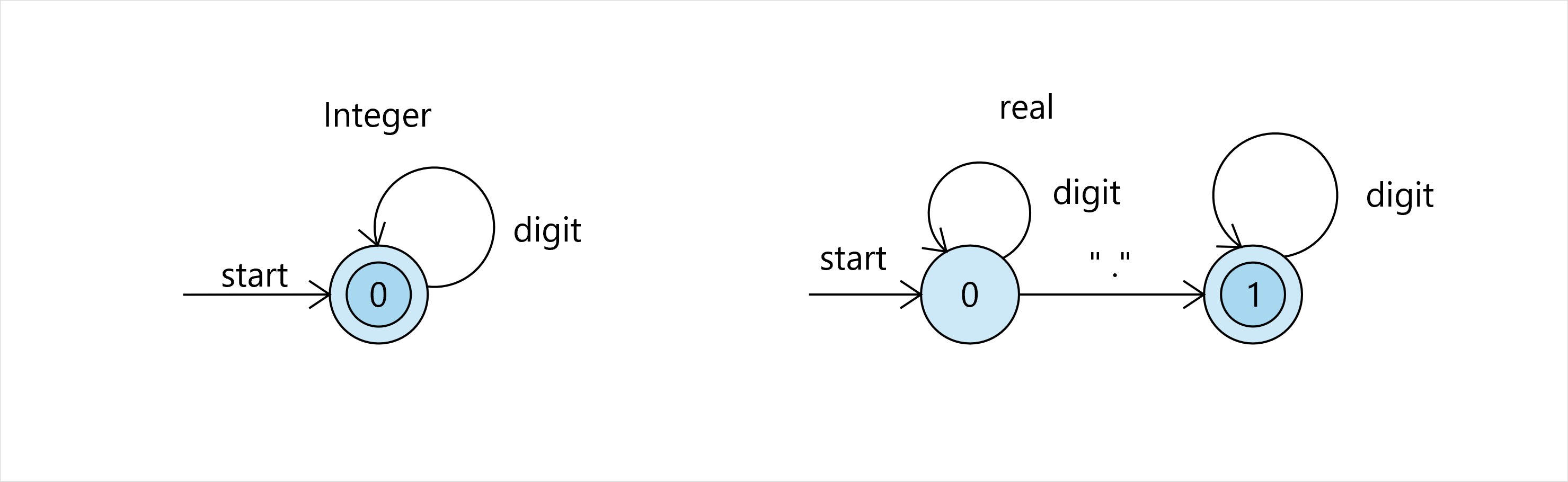
"("|")"|"{"|"}"|"["|"]"|":"|","|";"

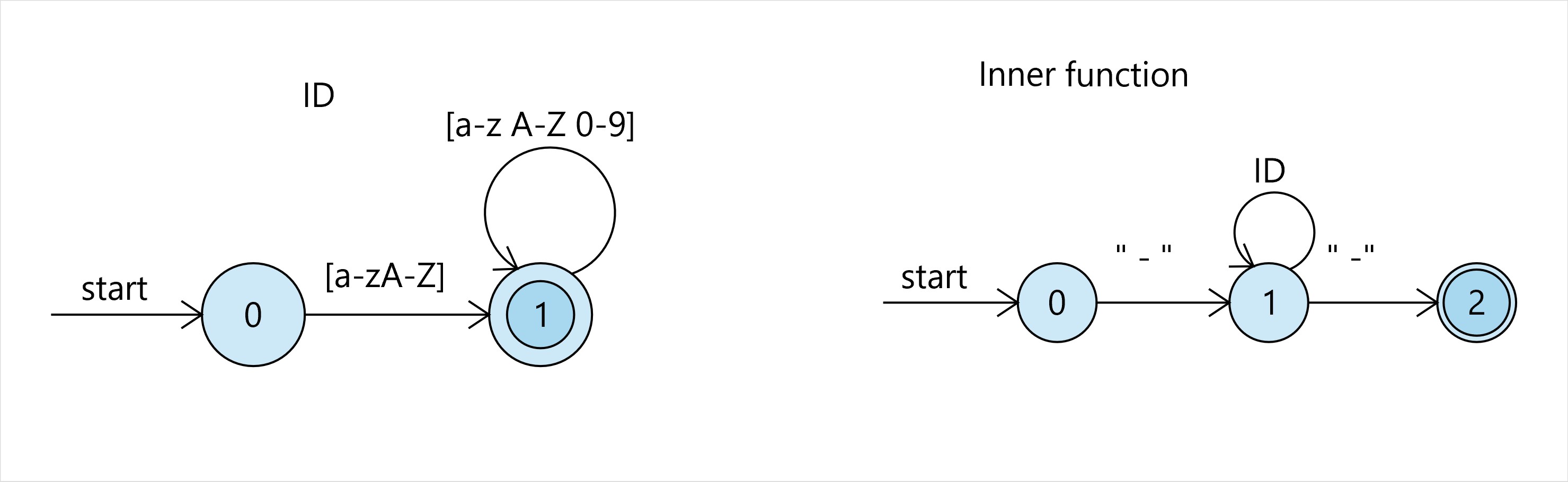
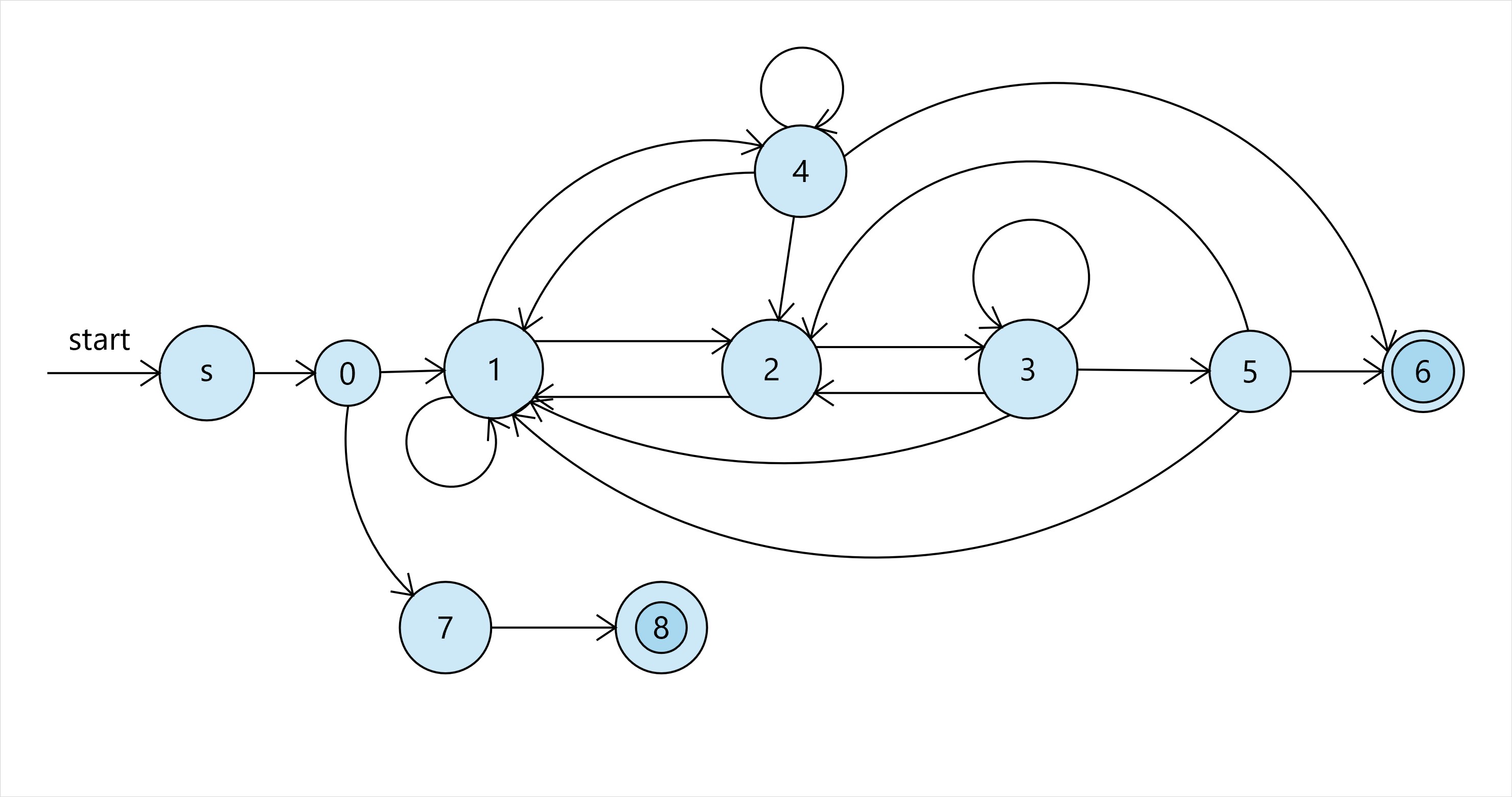
Comments:

Same style like c and c++ comments, everything between “/\*” and “\*/” or “//” and “\n” are comments

\/\\*([^\*\"]\*|\".\*\"|\\*+[^/]|\")\*\\*\/|\/\/[^\n]\*

# Finite machine





[^”]

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[^\n]\*

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[^\\*”]\*

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[^\/\\*”]

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[^\/\\*”]

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