Kompilator Assignment 1

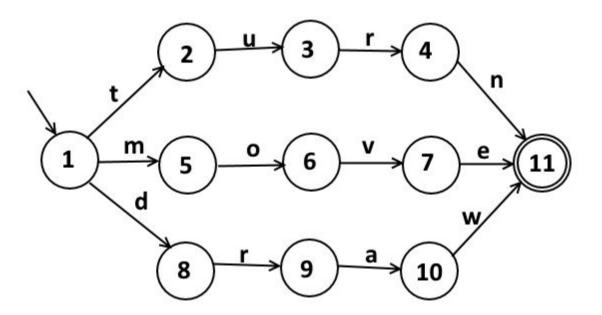
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Task 1

- 1. All strings containing 1 or less one's in them, as they would never transition further than state 1 or 2 (depending on 1 or none one's in them).
- 2. digit = [0-9]
 number = digit(.digit +)?
 complex = [+-]?number([+-]number i)?
- Yes, because regexes are built recursively out of smaller regexes, using the rules described in the dragon. So you could say that the notation for regexes itself a regular language.

Task 2

1. Shown in the figure below.



2. Implemented in the *scanner.c* file, and a given traingle.test and its corresponding output is given as *triangle.pdf*.