

## 2. Lexical Analysis

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## Regular definitions

For notational convention we give names to certain regular expressions A regular definition, on the alphabet  $\Sigma$  is sequence of definition of the form:

$$d_1 \rightarrow r_1$$
 $d_2 \rightarrow r_2$ 
...
 $d_n \rightarrow r_n$ 

So token of a language can be defined as:

```
\begin{array}{l} \textit{letter} \rightarrow \textit{A}|\textit{B}|...|\textit{Z}|\textit{a}|\textit{b}|...|\textit{z}\\ \textit{digit} \rightarrow 0|1|...|9\\ \textit{Identifier} \rightarrow \textit{letter}(\textit{letter}|\textit{digit})*\\ \textit{Integer} \rightarrow ... \end{array}
```

