

Compilers

LL(1) Γραμματική:

```
#1  $expr \rightarrow term\ expr1$ 
#2  $expr1 \rightarrow \wedge term\ expr1$ 
#3  $\quad \quad \quad | \epsilon$ 
#4  $term \rightarrow factor\ term1$ 
#5  $term1 \rightarrow \& factor\ term1$ 
#6  $\quad \quad \quad | \epsilon$ 
#7  $factor \rightarrow 0|1|2|3|4|5|6|7|8|9$ 
#8  $\quad \quad \quad | ( expr )$ 
```

First+ and Follow:

$First+(expr) = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, '('\}$
 $First+(expr1) = \{'\wedge', '\)', EOF\}$
 $First+(term) = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, '('\}$
 $First+(term1) = \{'\wedge', '\&', '\)', EOF\}$
 $First+(factor) = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, '('\}$

$Follow(expr) = \{'\)', EOF\}$
 $Follow(expr1) = \{'\)', EOF\}$
 $Follow(term) = \{'\wedge', '\)', EOF\}$
 $Follow(term1) = \{'\wedge', '\)', EOF\}$
 $Follow(factor) = \{'\wedge', '\&', '\)', EOF\}$

Lookahead Table

	0 1 ... 9	()	\wedge	$\&$	EOF
<i>expr</i>	#1	#1	error	error	error	error
<i>expr1</i>	error	error	#3	#2	error	#3
<i>term</i>	#4	#4	error	error	error	error
<i>term1</i>	error	error	#6	#6	#5	#6
<i>factor</i>	#7	#8	error	error	error	error