

# THE ORIGINAL GRAMMAR

<prog>	→ <b>program</b> <identifier>; <b>var</b> <dec-list> <b>begin</b> <stat-list> <b>end.</b>
<identifier>	→ <letter>{<letter> <digit>}
<dec-list>	→ <dec> : <type> ;
<dec>	→ <identifier> , <dec>  < identifier >
<type>	→ <b>integer</b>
<stat-list>	→ <stat>   <stat> <stat-list>
<stat>	→ <write>   <assign>
<write>	→ <b>display</b> (“value=” < identifier > );   <b>display</b> (<identifier>);
<assign>	→ < identifier > = <expr>;
<expr>	→ <expr> + <term>   <expr> - < term>   < term>
<term>	→ <term> * <factor>   <term> / <factor>  <factor>
<factor>	→ ( <expr> )
<factor>	→ < identifier >   <number>
<number>	→ <sign><digit>{<digit> } note: this grammar is in EBNF
<sign>	→ +   -   λ
<digit>	→ 0 1 2 ... 9
<letter>	→ p   q   r   s