

**Table 2.1 Context Free Syntax of Mini-Language Core in BNF**

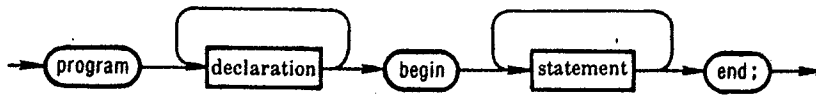
<b>&lt;program&gt;</b>	<b>::=</b>	program <declaration-sequence> begin <statement-sequence> end;
<b>&lt;declaration-sequence&gt;</b>	<b>::=</b>	<declaration>   <declaration> <declaration-sequence>
<b>&lt;statement-sequence&gt;</b>	<b>::=</b>	<statement>   <statement> <statement-sequence>
<b>&lt;declaration&gt;</b>	<b>::=</b>	declare <identifier-list>;
<b>&lt;identifier-list&gt;</b>	<b>::=</b>	<identifier>   <identifier>, <identifier-list>
<b>&lt;statement&gt;</b>	<b>::=</b>	<assignment-statement>   <if-statement>   <loop-statement>   <input-statement>   <output-statement>
<b>&lt;assignment-statement&gt;</b>	<b>::=</b>	<identifier> := <expression> ;
<b>&lt;if-statement&gt;</b>	<b>::=</b>	if <comparison> then <statement-sequence> end if;   if <comparison> then <statement-sequence> else <statement-sequence> end if;
<b>&lt;loop-statement&gt;</b>	<b>::=</b>	while <comparison> loop <statement-sequence> end loop;
<b>&lt;input-statement&gt;</b>	<b>::=</b>	input <identifier-list> ;
<b>&lt;output-statement&gt;</b>	<b>::=</b>	output <identifier-list> ;

Table 2.1 continued

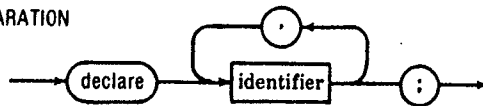
<comparison>	::= ( <operand> = <operand> )   ( <operand> ≠ <operand> )   ( <operand> < <operand> )   ( <operand> > <operand> )
<expression>	::= <factor>   <expression> + <factor>   <expression> - <factor>
<factor>	::= <operand>   <factor> * <operand>
<operand>	::= <integer>   <identifier>   ( <expression> )
<identifier>	::= <letter>   <identifier> <letter>   <identifier> _ <letter>
<integer>	::= <digit>   <integer> <digit>
<letter>	::= A   B   C   D   E   F   G   H   I   J   K   L   M   N   O   P   Q   R   S   T   U   V   W   X   Y   Z
<digit>	::= 0   1   2   3   4   5   6   7   8   9

**Table 2.4** Syntax of Mini-language Core Defined by Syntax Charts

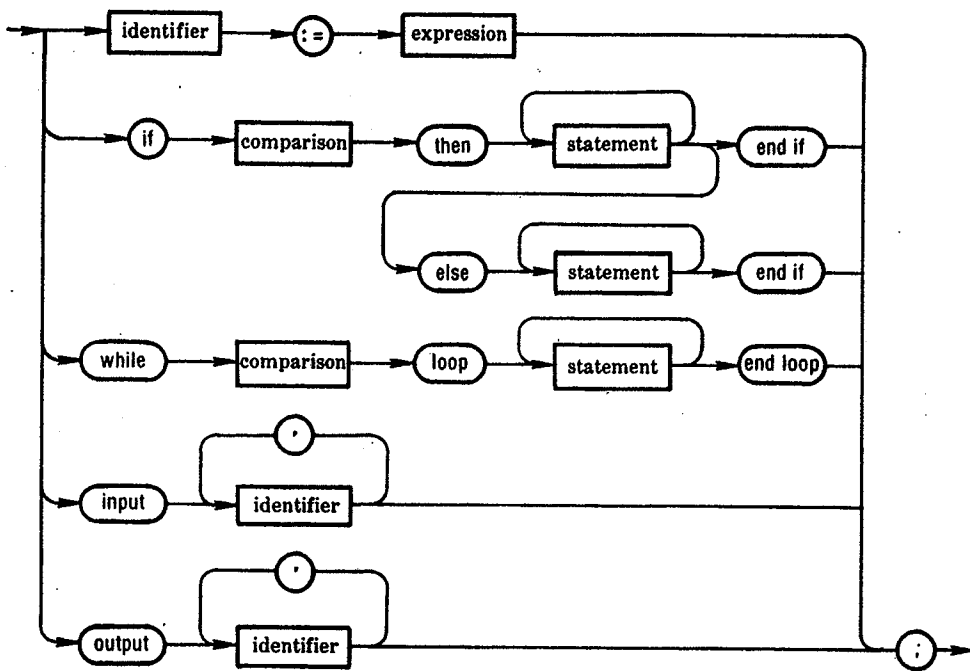
PROGRAM



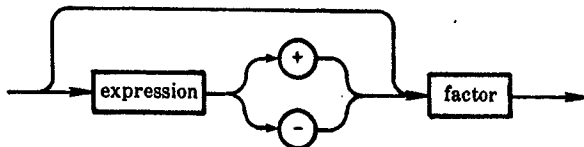
DECLARATION



STATEMENT



EXPRESSION



FACTOR

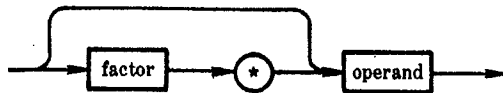
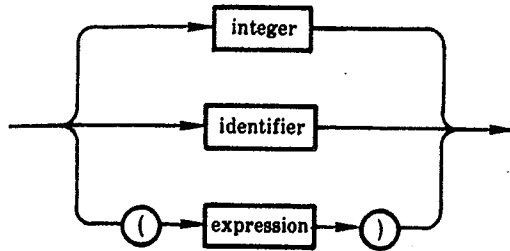
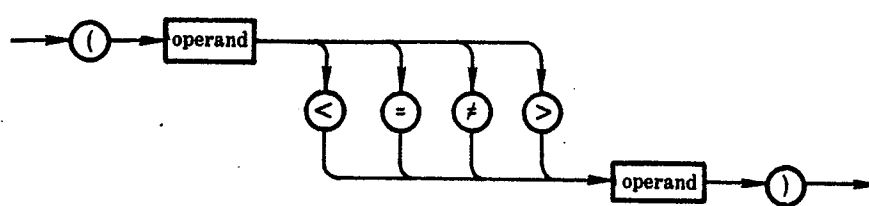


Table 2.4 continued

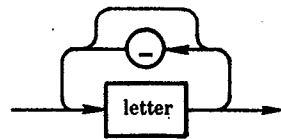
OPERAND



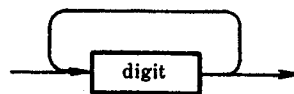
COMPARISON



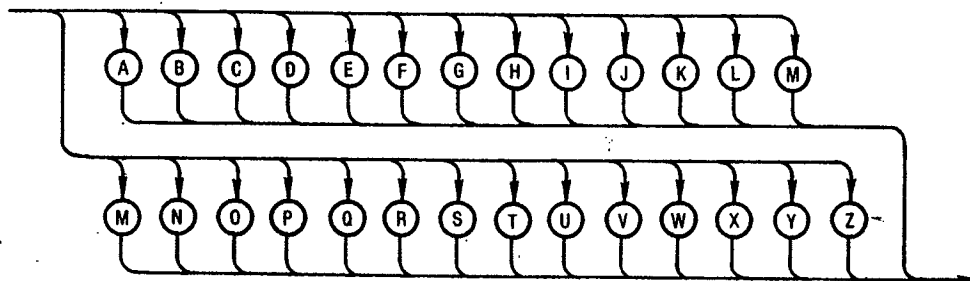
IDENTIFIER



INTEGER



LETTER



DIGIT

