<u>РБНФ</u>	Код для перевірки РБНФ
labeled_point = ident , ":";	labeled_point = ident >> tokenCOLON;
goto_label = "GOTO" , ident;	goto_label = tokenGOTO >> ident;
program_name = ident;	program_name = SAME_RULE(ident);
value_type = "INTEGER16";	value_type = SAME_RULE(tokenINTEGER16);
declaration_element = ident , ["[", unsigned_value , "]"];	declaration_element = ident >> -(tokenLEFTSQUAREBRACKETS >>
	unsigned_value >> tokenRIGHTSQUAREBRACKETS);
other_declaration_ident = "," , declaration_element;	other_declaration_ident = tokenCOMMA >> declaration_element;
declaration = value_type , declaration_element ,	declaration = value_type >> declaration_element >>
{other_declaration_ident};	*other_declaration_ident;
index_action = "[" , expression , "]";	index_action = tokenLEFTSQUAREBRACKETS >> expression >>
	tokenRIGHTSQUAREBRACKETS;
unary_operator = "NOT";	unary_operator = SAME_RULE(tokenNOT);
unary_operation = unary_operator , expression;	unary_operation = unary_operator >> expression;
binary_operator = "AND" "OR" "==" "!=" "<=" ">=" "+" "-"	binary_operator = tokenAND tokenOR tokenEQUAL tokenNOTEQUAL
"*" "DIV" "MOD";	tokenLESSOREQUAL tokenGREATEROREQUAL tokenPLUS tokenMINUS
	tokenMUL tokenDIV tokenMOD;
binary_action = binary_operator , expression;	binary_action = binary_operator >> expression;
<pre>left_expression = group_expression unary_operation ident ,</pre>	left_expression = group_expression unary_operation ident >>
[index_action] value;	-index_action value;
expression = left_expression , {binary_action};	expression = left_expression >> *binary_action;
group_expression = "(", expression, ")";	group_expression = tokenGROUPEXPRESSIONBEGIN >> expression >>
	tokenGROUPEXPRESSIONEND;
bind_right_to_left = ident , [index_action] , ":=" , expression;	bind_right_to_left = ident >> -index_action >> tokenRLBIND >>
	expression;
bind_left_to_right = expression , "=:" , ident , [index_action];	bind_left_to_right = expression >> tokenLRBIND >> ident >>
	-index_action;
if_expression = expression;	if_expression = SAME_RULE(expression);
body_for_true = block_statements_in_while_and_if_body;	body_for_true = SAME_RULE(block_statements_in_while_and_if_body);
false_cond_block_without_else = "ELSE" , cond_block;	false_cond_block_without_else = tokenELSE >> cond_block;
body_for_false = "ELSE" , block_statements_in_while_and_if_body;	body_for_false = tokenELSE >> block_statements_in_while_and_if_body;

cond_block = "lif", if_expression > body_for_true > {		
cycle_begin_expression = expression; cycle_end_expression = SAME_RULE(expression); cycle_end_expression = SAME_RULE(expression); cycle_counter = ident; cycle_counter_rl_init = cycle_counter, ":=", cycle_begin_expression; cycle_counter_rl_init = cycle_counter > tokenRLBIND >> cycle_counter_rl_init = cycle_begin_expression, "=:", cycle_counter; cycle_counter_init = cycle_begin_expression, "=:", cycle_counter; cycle_counter_init = cycle_begin_expression, "=:", cycle_counter; cycle_counter_init = cycle_counter_rl_init cycle_counte	cond_block = "IF" , if_expression , body_for_true ,	cond_block = tokenIF >> if_expression >> body_for_true >>
cycle_counter = ident;	{false_cond_block_without_else}, [body_for_false];	*false_cond_block_without_else >> (-body_for_false);
cycle_counter = ident; cycle_counter_rl_init = cycle_counter, ":=" , cycle_begin_expression; cycle_counter_rl_init = cycle_begin_expression, "=:" , cycle_counter; cycle_counter_lr_init = cycle_begin_expression, "=:" , cycle_counter; cycle_counter_lr_init = cycle_begin_expression, "=:" , cycle_counter; cycle_counter_lr_init = cycle_begin_expression >> tokenLRBIND >>	cycle_begin_expression = expression;	cycle_begin_expression = SAME_RULE(expression);
cycle_counter_rl_init = cycle_counter , ":=" , cycle_begin_expression; cycle_counter_rl_init = cycle_begin_expression , ":=" , cycle_counter; cycle_counter_lr_init = cycle_begin_expression , ":=" , cycle_counter; cycle_counter_lr_init = cycle_begin_expression , ":=" , cycle_counter; cycle_counter_linit = cycle_begin_expression >> tokenLRBIND >>	cycle_end_expression = expression;	cycle_end_expression = SAME_RULE(expression);
cycle_counter_lr_init = cycle_begin_expression, "=:", cycle_counter; cycle_counter_lr_init = cycle_begin_expression, "=:", cycle_counter; cycle_counter_lr_init = cycle_begin_expression >> tokenLRBIND >>	cycle_counter = ident;	cycle_counter = SAME_RULE(ident);
cycle_counter_Ir_init = cycle_begin_expression , "=:", cycle_counter; cycle_counter_Ir_init = cycle_begin_expression >> tokenLRBIND >> cycle_counter_init = cycle_counter_rI_init cycle_counter_Ir_init; cycle_counter_last_value = cycle_end_expression; cycle_body = "DO" . ((statement) block_statements); cycle_body = "DO" . ((statement) cycle_body = cycle_body = counter_last_value = SAME_RULE((tokenCONTINUE); break_while = SAME_RULE((toke	cycle_counter_rl_init = cycle_counter , ":=" , cycle_begin_expression;	cycle_counter_rl_init = cycle_counter >> tokenRLBIND >>
cycle_counter_init = cycle_counter_rl_init cycle_counter_lr_init; cycle_counter_last_value = cycle_end_expression; cycle_body = "DO", ({statement} block_statements); forto_cycle = "FOR", cycle_counter_init, "TO", cycle_counter_last_value , cycle_body; continue_while = SAME_RULE(cycle_end_expression); continue_while = SAME_RULE(cycle_end_expression); continue_while = SAME_RULE(tokenCONTINUE); break_while = SAME_RULE(tokenBREAK); statement_in_while_and_if_body = statement "CONTINUE" "BREAK"; statement_in_while_and_if_body = statement continue_while block_statements_in_while_and_if_body = "{",		cycle_begin_expression;
cycle_counter_init = cycle_counter_rl_init cycle_counter_lr_init; cycle_counter_last_value = cycle_end_expression; cycle_body = "DO", {{statement} block_statements}; forto_cycle = "FOR", cycle_counter_init, "TO", cycle_counter_last_value forto_cycle = tokenFOR >> cycle_counter_init >> (tokenTO tokenDOWNTO) >> cycle_counter_last_value >> continue_while = SAME_RULE(tokenCONTINUE); break_while = SAME_RULE(tokenCONTINUE); break_while = SAME_RULE(tokenCONTINUE); block_statements_in_while_and_if_body = statement "CONTINUE" "BREAK"; statement_in_while_and_if_body = statement continue_while block_statements_in_while_and_if_body = tokenBEGINBLOCK >> {statement_in_while_and_if_body = tokenBEGINBLOCK >> *statement_in_while_and_if_body > tokenENDBLOCK; while_cycle_head_expression = expression; while_cycle = "WHILE", while_cycle_head_expression >> block_statements_in_while_and_if_body; repeat_until_cycle_cond = expression; repeat_until_cycle_cond = expression; repeat_until_cycle_cond = SAME_RULE(expression); repeat_until_cycle_cond; input = "GET", (ident, [index_action] "(", ident, [index_action], ")"); tokenGROUPEXPRESSIONEDGIN >> ident >> -index_action >> tokenGROUPEXPRESSIONEDD);	<pre>cycle_counter_lr_init = cycle_begin_expression , "=:" , cycle_counter;</pre>	cycle_counter_lr_init = cycle_begin_expression >> tokenLRBIND >>
cycle_counter_last_value = cycle_end_expression; cycle_body = "DO", ({statement} block_statements); cycle_body = "DO", ({statement} block_statements); cycle_body = tokenDO >> (statement block_statements); forto_cycle = "FOR", cycle_counter_init, "TO", cycle_counter_last_value , cycle_body; forto_cycle = tokenFOR >> cycle_counter_init >> (tokenTO tokenDOWNTO) >> cycle_counter_last_value >> cycle_body; continue_while = SAME_RULE(tokenBREAK); statement_in_while_and_if_body = statement "CONTINUE" "BREAK"; block_statements_in_while_and_if_body = statement continue_while break_while; block_statements_in_while_and_if_body = "{",		cycle_counter;
cycle_body = "DO", {{statement} block_statements}; forto_cycle = "FOR", cycle_counter_init, "TO", cycle_counter_last_value , cycle_body; forto_cycle = "FOR", cycle_counter_init, "TO", cycle_counter_last_value , cycle_body; continue_while = SAME_RULE(tokenCONTINUE); break_while = SAME_RULE(tokenBREAK); statement_in_while_and_if_body = statement "CONTINUE" "BREAK"; block_statements_in_while_and_if_body = "{",	cycle_counter_init = cycle_counter_rl_init cycle_counter_lr_init;	cycle_counter_init = cycle_counter_rl_init cycle_counter_lr_init;
forto_cycle = "FOR", cycle_counter_init, "TO", cycle_counter_last_value , cycle_body; forto_cycle = tokenFOR >> cycle_counter_init >> (tokenTO tokenDOWNTO) >> cycle_counter_last_value >> cycle_body; continue_while = SAME_RULE(tokenCONTINUE); break_while = SAME_RULE(tokenBREAK); statement_in_while_and_if_body = statement "CONTINUE" "BREAK"; block_statements_in_while_and_if_body = "{",	cycle_counter_last_value = cycle_end_expression;	<pre>cycle_counter_last_value = SAME_RULE(cycle_end_expression);</pre>
tokenDOWNTO) >> cycle_counter_last_value >> cycle_body; continue_while = SAME_RULE(tokenCONTINUE); break_while = SAME_RULE(tokenBREAK); statement_in_while_and_if_body = statement "CONTINUE" "BREAK"; block_statements_in_while_and_if_body = "{" , {statement_in_while_and_if_body = tokenBEGINBLOCK >> } *statement_in_while_and_if_body >> tokenENDBLOCK; while_cycle_head_expression = expression; while_cycle = "WHILE", while_cycle_head_expression, block_statements_in_while_and_if_body; repeat_until_cycle = "WHILE", while_cycle_head_expression, block_statements_in_while_and_if_body; repeat_until_cycle_cond = expression; repeat_until_cycle = "REPEAT", (statement block_statements), "UNTIL" repeat_until_cycle = tokenREPEAT >> (statement block_statements) >> tokenUNTIL >> repeat_until_cycle_cond; input = "GET", (ident, [index_action] "(", ident, [index_action], ")"); input = tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >> tokenGROUPEXPRESSIONEND);	cycle_body = "DO" , ({statement} block_statements);	cycle_body = tokenDO >> (statement block_statements);
continue_while = SAME_RULE(tokenCONTINUE); break_while = SAME_RULE(tokenBREAK); statement_in_while_and_if_body = statement "CONTINUE" "BREAK"; block_statements_in_while_and_if_body = "{" ,	forto_cycle = "FOR" , cycle_counter_init , "TO" , cycle_counter_last_value	forto_cycle = tokenFOR >> cycle_counter_init >> (tokenTO
break_while = SAME_RULE(tokenBREAK); statement_in_while_and_if_body = statement "CONTINUE" "BREAK"; block_statements_in_while_and_if_body = "{", {statement_in_while_and_if_body = "{", {statement_in_while_and_if_body > tokenBEGINBLOCK >> {statement_in_while_and_if_body > tokenENDBLOCK; while_cycle_head_expression = expression; while_cycle_head_expression = SAME_RULE(expression); while_cycle = "WHILE", while_cycle_head_expression, block_statements_in_while_and_if_body; repeat_until_cycle_cond = expression; repeat_until_cycle_cond = SAME_RULE(expression); repeat_until_cycle = "REPEAT", (statement block_statements), "UNTIL" repeat_until_cycle = tokenREPEAT >> (statement block_statements) >> tokenUNTIL >> repeat_until_cycle_cond; input = "GET", (ident, [index_action] "(", ident, [index_action], ")"); tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >> tokenGROUPEXPRESSIONEND);	, cycle_body;	tokenDOWNTO) >> cycle_counter_last_value >> cycle_body;
statement_in_while_and_if_body = statement "CONTINUE" "BREAK"; statement_in_while_and_if_body = statement continue_while break_while; block_statements_in_while_and_if_body = "{" ,		continue_while = SAME_RULE(tokenCONTINUE);
break_while; block_statements_in_while_and_if_body = "{" ,		break_while = SAME_RULE(tokenBREAK);
break_while; block_statements_in_while_and_if_body = "{" ,	statement_in_while_and_if_body = statement "CONTINUE" "BREAK";	statement_in_while_and_if_body = statement continue_while
<pre>{statement_in_while_and_if_body}, "}"; while_cycle_head_expression = expression; while_cycle = "WHILE", while_cycle_head_expression, block_statements_in_while_and_if_body; repeat_until_cycle_cond = expression; repeat_until_cycle = "REPEAT", (statement block_statements), "UNTIL" , repeat_until_cycle_cond; input = "GET", (ident, [index_action] "(", ident, [index_action], ")"); input = tokenGROUPEXPRESSIONBEGIN >> index_action >> index_action >> itokenGROUPEXPRESSIONEND);</pre> *statement_in_while_and_if_body>> tokenENDBLOCK; while_cycle_head_expression; while_cycle = tokenWHILE >> while_cycle_head_expression>>> block_statements_in_while_and_if_body; repeat_until_cycle_cond = SAME_RULE(expression); repeat_until_cycle_cond = SAME_RULE(expression); repeat_until_cycle = tokenREPEAT >> (statement block_statements) >> tokenUNTIL >> repeat_until_cycle_cond; input = tokenGET >> (ident >> -index_action tokenGROUPEXPRESSIONEND);		break_while;
while_cycle_head_expression = expression;while_cycle_head_expression = SAME_RULE(expression);while_cycle = "WHILE", while_cycle_head_expression,while_cycle = tokenWHILE >> while_cycle_head_expression >>block_statements_in_while_and_if_body;block_statements_in_while_and_if_body;repeat_until_cycle_cond = expression;repeat_until_cycle_cond = SAME_RULE(expression);repeat_until_cycle = "REPEAT", (statement block_statements), "UNTIL"repeat_until_cycle = tokenREPEAT >> (statement block_statements) >>, repeat_until_cycle_cond;tokenUNTIL >> repeat_until_cycle_cond;input = "GET", (ident, [index_action] "(", ident, [index_action], ")");input = tokenGET >> (ident >> -index_action tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >>tokenGROUPEXPRESSIONEND);	block_statements_in_while_and_if_body = "{",	block_statements_in_while_and_if_body = tokenBEGINBLOCK >>
while_cycle = "WHILE", while_cycle_head_expression, block_statements_in_while_and_if_body; repeat_until_cycle_cond = expression; repeat_until_cycle = "REPEAT", (statement block_statements), "UNTIL" repeat_until_cycle_cond; repeat_until_cycle_cond; repeat_until_cycle_cond; input = "GET", (ident, [index_action] "(", ident, [index_action], ")"); tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >> tokenGROUPEXPRESSIONEND);	{statement_in_while_and_if_body}, "}";	*statement_in_while_and_if_body >> tokenENDBLOCK;
block_statements_in_while_and_if_body; repeat_until_cycle_cond = expression; repeat_until_cycle = "REPEAT", (statement block_statements), "UNTIL" repeat_until_cycle = "REPEAT", (statement block_statements), "UNTIL" repeat_until_cycle = tokenREPEAT >> (statement block_statements) >> tokenUNTIL >> repeat_until_cycle_cond; input = "GET", (ident, [index_action] "(", ident, [index_action], ")"); tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >> tokenGROUPEXPRESSIONEND);	while_cycle_head_expression = expression;	while_cycle_head_expression = SAME_RULE(expression);
repeat_until_cycle_cond = expression; repeat_until_cycle = "REPEAT", (statement block_statements), "UNTIL" repeat_until_cycle = tokenREPEAT >> (statement block_statements) >> , repeat_until_cycle_cond; input = "GET", (ident, [index_action] "(", ident, [index_action], ")"); input = tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >> tokenGROUPEXPRESSIONEND);	while_cycle = "WHILE" , while_cycle_head_expression ,	while_cycle = tokenWHILE >> while_cycle_head_expression >>
repeat_until_cycle = "REPEAT" , (statement block_statements) , "UNTIL" repeat_until_cycle = tokenREPEAT >> (statement block_statements) >> , repeat_until_cycle_cond; tokenUNTIL >> repeat_until_cycle_cond; input = "GET" , (ident , [index_action] "(" , ident , [index_action] , ")"); input = tokenGET >> (ident >> -index_action tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >> tokenGROUPEXPRESSIONEND);	block_statements_in_while_and_if_body;	block_statements_in_while_and_if_body;
<pre>, repeat_until_cycle_cond; input = "GET" , (ident , [index_action] "(" , ident , [index_action] , ")"); input = tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >> tokenGROUPEXPRESSIONEND);</pre>	repeat_until_cycle_cond = expression;	repeat_until_cycle_cond = SAME_RULE(expression);
<pre>input = "GET", (ident, [index_action] "(", ident, [index_action], ")");</pre>	repeat_until_cycle = "REPEAT" , (statement block_statements) , "UNTIL"	repeat_until_cycle = tokenREPEAT >> (statement block_statements) >>
tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >> tokenGROUPEXPRESSIONEND);	, repeat_until_cycle_cond;	tokenUNTIL >> repeat_until_cycle_cond;
tokenGROUPEXPRESSIONEND);	input = "GET", (ident, [index_action] "(", ident, [index_action], ")");	input = tokenGET >> (ident >> -index_action
"		tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >>
output = "PUT", expression; output = tokenPUT >> expression;		tokenGROUPEXPRESSIONEND);
	output = "PUT", expression;	output = tokenPUT >> expression;

statement = bind_right_to_left bind_left_to_right cond_block	statement = bind_right_to_left bind_left_to_right cond_block
forto_cycle while_cycle repeat_until_cycle labeled_point goto_label	forto_cycle while_cycle repeat_until_cycle labeled_point goto_label
input output ";";	input output tokenSEMICOLON;
block_statements = "{" , {statement} , "}";	block_statements = tokenBEGINBLOCK >> *statement >>
	tokenENDBLOCK;
<pre>program = "NAME" , program_name , ";" , "BODY" , "DATA", [declaration] ,</pre>	program = BOUNDARIES >> tokenNAME >> program_name >>
";" , {statement} , "END";	tokenSEMICOLON >> tokenBODY >> tokenDATA >> (-declaration) >>
	tokenSEMICOLON >> *statement >> tokenEND;
digit = "0" "1" "2" "3" "4" "5" "6" "7" "8" "9";	digit = digit_0 digit_1 digit_2 digit_3 digit_4 digit_5 digit_6
	digit_7 digit_8 digit_9;
non_zero_digit = "1" "2" "3" "4" "5" "6" "7" "8" "9";	non_zero_digit = digit_1 digit_2 digit_3 digit_4 digit_5 digit_6
	digit_7 digit_8 digit_9;
unsigned_value = (non_zero_digit , {digit}) "0";	unsigned_value = ((non_zero_digit >> *digit) digit_0) >> BOUNDARIES;
value = [sign] , unsigned_value;	value = (-sign) >> unsigned_value >> BOUNDARIES;
letter_in_lower_case = "a" "b" "c" "d" "e" "f" "g" "h" "i" "j"	letter_in_lower_case = a b c d e f g h i j k l m n o
"k" "l" "m" "n" "o" "p" "q" "r" "s" "t" "u" "v" "w" "x"	p q r s t u v w x y z;
"y" "z";	
letter_in_upper_case = "A" "B" "C" "D" "E" "F" "G" "H" "I"	letter_in_upper_case = A B C D E F G H I J K L M N
"J" "K" "L" "M" "N" "O" "P" "Q" "R" "S" "T" "U" "V" "W"	O P Q R S T U V W X Y Z;
"X" "Y" "Z";	
ident = "_" , letter_in_upper_case , digit , letter_in_upper_case ,	ident = tokenUNDERSCORE >> letter_in_upper_case >> digit >>
letter_in_upper_case;	letter_in_upper_case >> letter_in_upper_case >> STRICT_BOUNDARIES;
sign = "+" "-";	sign = sign_plus sign_minus;
	sign_plus = '+' >> BOUNDARIES;
	sign_minus = '-' >> BOUNDARIES;
	digit_0 = '0';
	digit_1 = '1';
	digit_2 = '2';
	digit_3 = '3';
	digit_4 = '4';
	digit_5 = '5';
	digit_6 = '6';

digit_7 = '7';
digit_8 = '8';
digit_9 = '9';
tokenCOLON = ":" >> BOUNDARIES;
tokenINTEGER16 = "Integer_2" >> STRICT_BOUNDARIES;
tokenCOMMA = "," >> BOUNDARIES;
tokenNOT = "!" >> STRICT_BOUNDARIES;
tokenAND = "&" >> STRICT_BOUNDARIES;
tokenOR = " " >> STRICT_BOUNDARIES;
tokenEQUAL = "==" >> BOUNDARIES;
tokenNOTEQUAL = "!=" >> BOUNDARIES;
tokenLESS = "<" >> BOUNDARIES;
tokenGREATER = ">" >> BOUNDARIES;
tokenPLUS = "++" >> BOUNDARIES;
tokenMINUS = "" >> BOUNDARIES;
tokenMUL = "**" >> BOUNDARIES;
tokenDIV = "Div" >> STRICT_BOUNDARIES;
tokenMOD = "Mod" >> STRICT_BOUNDARIES;
tokenGROUPEXPRESSIONBEGIN = "(" >> BOUNDARIES;
tokenGROUPEXPRESSIONEND = ")" >> BOUNDARIES;
tokenLRBIND = "=:" >> BOUNDARIES;
tokenELSE = "Else" >> STRICT_BOUNDARIES;
tokenIF = "If" >> STRICT_BOUNDARIES;
tokenDO = "Do" >> STRICT_BOUNDARIES;
tokenFOR = "For" >> STRICT_BOUNDARIES;
tokenTO = "To" >> STRICT_BOUNDARIES;
tokenGET = "Read" >> STRICT_BOUNDARIES;
tokenPUT = "Write" >> STRICT_BOUNDARIES;
tokenNAME = "#Program" >> STRICT_BOUNDARIES;
tokenBODY = "Start" >> STRICT_BOUNDARIES;
tokenDATA = "Variable" >> STRICT_BOUNDARIES;

tokenEND = "Stop" >> STRICT_BOUNDARIES;
tokenBEGINBLOCK = "{" >> BOUNDARIES;
tokenENDBLOCK = "}" >> BOUNDARIES;
tokenLEFTSQUAREBRACKETS = "[" >> BOUNDARIES;
tokenRIGHTSQUAREBRACKETS = "]" >> BOUNDARIES;
tokenSEMICOLON = ";" >> BOUNDARIES;
STRICT_BOUNDARIES = (BOUNDARY >> *(BOUNDARY)) (!(qi::alpha
qi::char_("_")));
BOUNDARIES = (BOUNDARY >> *(BOUNDARY) NO_BOUNDARY);
BOUNDARY = BOUNDARY_SPACE BOUNDARY_TAB
BOUNDARY_CARRIAGE_RETURN BOUNDARY_LINE_FEED
BOUNDARY_NULL;
BOUNDARY_SPACE = " ";
BOUNDARY_TAB = "\t";
BOUNDARY_CARRIAGE_RETURN = "\r";
BOUNDARY_LINE_FEED = "\n";
BOUNDARY_NULL = "\0";
NO_BOUNDARY = "";
tokenUNDERSCORE = "_";
A = "A";
B = "B";
C = "C";
D = "D";
E = "E";
F = "F";
G = "G";
H = "H";
I = "I";
J = "J";
K = "K";
L = "L";
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M = "M";
N = "N";
O = "O";
P = "P";
Q = "Q";
R = "R";
S = "S";
T = "T";
U = "U";
V = "V";
W = "W";
X = "X";
Y = "Y";
Z = "Z";
a = "a";
b = "b";
c = "c";
d = "d";
e = "e";
f = "f";
g = "g";
g = "g"; h = "h";
i = "i";
j = "j";
k = "k";
l = "l";
m = "m";
m = "m"; n = "n";
0 = "0";
p = "p";
q = "q";
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r = "r";
s = "s";
t = "t";
u = "u";
v = "v";
w = "w";
x = "x";
y = "y";
z = "z";