$P \rightarrow$ program $\{\ OI\ Op\ \}$

$OI \rightarrow \{\ O;\ \}$

$O \rightarrow T\ V\ \{\ ,\ V\ \}.$

$T \rightarrow$ int | string | bool

$V \rightarrow I\ |\ I = C$

$C \rightarrow N\ |\ L\ |\ B4$

$N \rightarrow [M]\ D\ \{\ D\ \}$

$M \rightarrow +\ |\ -$

$L \rightarrow "\ \{\ A\ \}\ "$

$OpI \rightarrow \{\ Op\ \}$

$Op \rightarrow$ if $(\ B\ )\ Op$ else $Op\ |\ I = B$
| for $(\ [B]\ ;\ [B]\ ;\ [B]\ ;\ )\ Op$
| while $(\ B\ )\ Op$
| break;
| goto I ;
| read $(\ I\ )$;
| write $(\ B\ \{\ ,\ B\ \}\ )$;
| SOp
| POp
| BOp

$POp \rightarrow I : Op$

$SOp \rightarrow \{\ Op\ \}$

$BOp \rightarrow B$

$D \rightarrow 0\ |\ 1\ |\ 2\ |\ 3\ |\ 4\ |\ 5\ |\ 6\ |\ 7\ |\ 8\ |\ 9$

$A \rightarrow a\ |\ ...\ |\ z\ |\ ...$

$B4 \rightarrow$ true | false

$I \rightarrow a\ |\ b\ |\ ...\ z\ |\ Ia\ |\ Ib\ |\ ...\ |\ Iz\ |\ I0\ |\ I1\ |\ ...\ |\ I9$

$B \rightarrow B1\ \{\ or\ B1\ \}$

$B1 \rightarrow B2\ \{\ and\ B2\ \}$

$B2 \rightarrow B3\ [\ <\ |\ >\ |\ <=\ |\ >=\ |\ ==\ |\ != \ |\ ]\ B3\ |\ B3$

$B3 \rightarrow B4\ \{\ [+|-]\ B4\ \}$

$B4 \rightarrow B5\ \{\ [*|/]\ B5\ \}$

$B5 \rightarrow I\ |\ N\ |\ L\ |\ B4\ |\ not\ B\ |\ -B5\ |\ (B)$