

S	\rightarrow	Newline S S_1
S_1	\rightarrow	AS_1 DS_1 EOF
A	\rightarrow	def ident $(I) : B$
I	\rightarrow	ident I_1
I_1	\rightarrow	, ident I_1 ε
B	\rightarrow	CN Newline Begin DB_1 End
B_1	\rightarrow	DB_1 ε
C	\rightarrow	return E ident C_2 EC_1 print (E_1)
C_1	\rightarrow	$[E] = E$ ε
C_2	\rightarrow	$= E$ $=$ ident $[E]$ ε
D	\rightarrow	CN if $E : BD_1$ for indent in $E : B$
D_1	\rightarrow	else : B ε
E	\rightarrow	E_{or}
E_{or}	\rightarrow	$E_{\text{and}}E_{\text{or_tail}}$
$E_{\text{or_tail}}$	\rightarrow	or $E_{\text{and}}E_{\text{or_tail}}$ ε
E_{and}	\rightarrow	$E_{\text{not}}E_{\text{and_tail}}$
$E_{\text{and_tail}}$	\rightarrow	and $E_{\text{not}}E_{\text{and_tail}}$ ε
E_{not}	\rightarrow	not E_{rel} E_{rel}
E_{rel}	\rightarrow	$E_{\text{add}}E_{\text{rel_tail}}$
$E_{\text{rel_tail}}$	\rightarrow	$O_rE_{\text{add}}E_{\text{rel_tail}}$ ε
E_{add}	\rightarrow	$E_{\text{mult}}E_{\text{add_tail}}$
$E_{\text{add_tail}}$	\rightarrow	$O_+E_{\text{mult}}E_{\text{add_tail}}$ ε
E_{mult}	\rightarrow	$E_{\text{un}}E_{\text{mult_tail}}$
$E_{\text{mult_tail}}$	\rightarrow	$O_*E_{\text{un}}E_{\text{mult_tail}}$ ε
E_{un}	\rightarrow	$-E_{\text{un}}$ $[E_1]$ (E_1) O_{un} ident (E_1)
E_1	\rightarrow	EE_2 ε
E_2	\rightarrow	, EE_2 ε
O_r	\rightarrow	$<=$ $>=$ $<$ $>$ $!=$ $==$
O_+	\rightarrow	$+$ $-$
O_*	\rightarrow	\times $//$ $\%$
O_{un}	\rightarrow	ident const True False None
N	\rightarrow	Newline N ε