

Table 1 < Grammar >

prog	::=	word "(" ")" block ;
decls	::=	decls decl
		;
decl	::=	vtype word " ;"
vtype	::=	int char
		;
block	::=	"{" decls slist "}"
		;
slist	::=	slist stat
		stat ;
stat	::=	IF cond THEN block ELSE block
		word "=" expr " ;"
		EXIT expr " ;"
		;
cond	::=	expr ">" expr ;
expr	::=	expr "+" fact
		fact ;
fact	::=	num
		word ;
word	::=	([a-z] [A-Z])* ;
num	::=	[0-9]*

Table 2 < instruction set>

LD	Reg#1, addr(or num)	Load var (or num) into the Reg#1
ST	Reg#1, addr	Store value of Reg#1 into var
ADD	Reg#1, Reg#2, Reg#3	Reg#1 = Reg#2 + Reg#3
LT	Reg#1, Reg#2, Reg#3	1 if (Reg#2 < Reg#3), 0 otherwise , store into Reg#1
JUMPF	Reg#1 label	Jump to label if Reg#1 contains 0
JUMPT	Reg#1 label	Jump to label if Reg#1 contains Non-0
JUMP	label	Jump to label without condition