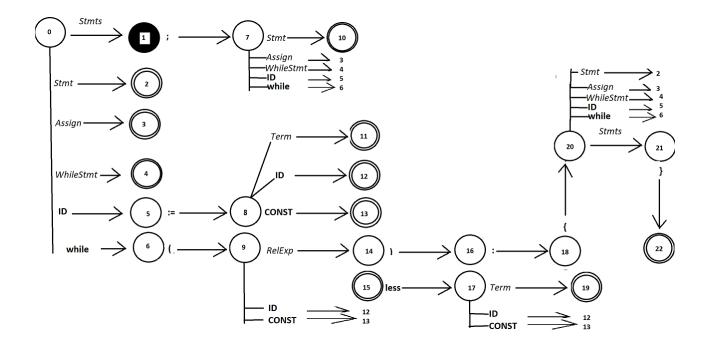
Gramatika:

```
1. Stmts -> Stmts;Stmt
   2. Stmts -> Stmt
   3. Stmt -> Assign
   4. Stmt -> WhileStmt
   5. WhileStmt -> while(RelExp):{Stmts}
   6. RelExp -> Term less Term
   7. RelExp -> Term
   8. Term -> ID
   9. Term -> CONST
   10.
           Assign -> ID:=Term
Kreiranje kanoničkog skupa LR pravila:
\circ \mathbf{I}_{\boldsymbol{\theta}}:
   ■ Stmts' -> Stmts
   ■ Stmts -> .Stmts;Stmt
   ■ Stmts -> .Stmt
   ■ Stmt -> .Assign
   ■ Stmt -> .WhileStmt
   ■ Assign -> .ID:=Term
   WhileStmt -> .while(RelExp):{Stmts}
\circ goto(I_0, Stmts) = I_1:
   ■ Stmts' -> Stmts.;Stmt
\circ goto(\mathbf{I}_0, Stmt) = \mathbf{I}_2:
   ■ Stmts -> Stmt.
                                        (R2)
\circ goto(I_0, Assign) = I_3:
                                        (R3)
   ■ Stmt -> Assign.
\circ goto(I_0, WhileStmt) = I_4:
   ■ Stmt -> WhileStmt.
                                        (R4)
\circ goto(I_0, ID) = I_5:
   ■ Assign -> ID.:=Term
\circ goto(I_0, while) = I_6:
   WhileStmt -> while.(RelExp):{Stmts}
o goto(I<sub>1</sub>, ';') = I<sub>7</sub>:
   Stmts' -> Stmts; Stmt
   ■ Stmt -> .Assign
   ■ Stmt -> .WhileStmt
   ■ Assign -> .ID:=Term
```

```
WhileStmt -> .while(RelExp):{Stmts}
o goto(I₅, ':=') = I₃:
   ■ Assign -> ID:=.Term
   ■ Term -> .ID
   ■ Term -> .CONST
\circ goto(I_6, '(') = I_9:
   WhileStmt -> while(.RelExp):{Stmts}
   ■ RelExp -> .Term less Term
   ■ RelExp -> .Term
   ■ Term -> .ID
   ■ Term -> .CONST
\circ goto(\mathbf{I}_7, Stmt) = \mathbf{I}_{10}:
   ■ Stmts -> Stmts;Stmt.
                                           (R1)
\circ goto(I_7, Assign) = *I_3
o goto(I₁, WhileStmt) = *I₄
\circ goto(I_7, ID) = *I_5
\circ goto(I_7, while) = *I_6
\circ goto(I_8, Term) = I_{11}:
   ■ Assign -> ID:=Term.
                                           (R10)
\circ goto(I_8, ID) = I_{12}:
   ■ Term -> ID.
                                           (R8)
\circ goto(I_8, CONST) = I_{13}:
   ■ Term -> CONST.
                                           (R9)
\circ goto(\mathbf{I}_9, RelExp) = \mathbf{I}_{14}:
   WhileStmt -> while(RelExp.):{Stmts}
\circ qoto(I_9, Term) = I_{15}:
   ■ RelExp -> Term.less Term
   ■ RelExp -> Term.
                                           (R7)
\circ goto(I<sub>9</sub>, ID) = *I<sub>12</sub>:
\circ goto(I<sub>9</sub>, CONST) = *I<sub>13</sub>:
o goto(I<sub>14</sub>, ')') = I<sub>16</sub>:
   WhileStmt -> while(RelExp).:{Stmts}
```

```
\circ goto(I_{15}, less) = I_{17}:
   ■ RelExp -> Term less.Term
   ■ Term -> .ID
   ■ Term -> .CONST
\circ goto(I_{16}, ':') = I_{18}:
   WhileStmt -> while(RelExp):.{Stmts}
\circ goto(\mathbf{I}_{17}, Term) = \mathbf{I}_{19}:
   ■ Relxp -> Term less Term.
                                      (R6)
\circ goto(I_{17}, ID) = *I_{12}
\circ goto(I_{17}, CONST) = *I_{13}
\circ goto(I_{18} , '{') = I_{20}:
   WhileStmt -> while(RelExp):{.Stmts}
   ■ Stmts -> .Stmts;Stmt
   ■ Stmts -> .Stmt
   ■ Stmt -> .Assign
   ■ Stmt -> .WhileStmt
   ■ Assign -> .ID:=Term
   WhileStmt -> .while(RelExp):{Stmts}
\circ goto(\mathbf{I}_{20}, Stmts) = \mathbf{I}_{21}:
   WhileStmt -> while(RelExp):{Stmts.}
\circ goto(\mathbf{I}_{20}, Stmt) = *\mathbf{I}_{2}
\circ goto(I_{20}, Assign) = *I_3
○ goto(I<sub>20</sub>, WhileStmt) = *I<sub>4</sub>
\circ goto(I_{20}, ID) = *I_5
\circ goto(I_{20}, while) = *I_6
o goto(I<sub>21</sub>, '}') = I<sub>22</sub>:
   WhileStmt -> while(RelExp):{Stmts}. (R5)
```

II) Crtanje grafa automata:



IV) Sintaksna tabela

tanje		Akcija												GOTO					
	while	ID	CONST	less	:=	;	:	{	}	()	EOF(#)	Stmts	Stmt	WhileStmt	RelExp	Term	Assign	
	0s6	s5											1	. 2	2	1			
	1					s7						acc							
	2					r2			r2			r2							
	3					r3			r3			r3							
	4					r4			r4			r4							
	5				s8														
	6				s9														
	7 s6	s5												10) 4	l .			
	8	s12	s13														11	Ų.	
	9	s12	s13													14			
	LO					r1			r1			r1							
	1					r10			r10			r10							
	12			r8		r8			r8		r8	r8							
	13			r9		r9			r9			r9							
	L4										s16								
	15			s17		r7			r7		r7	r7							
	L6						s18												
	L7	s12	s13														19	9	
	18							s20											
	L9					r6			r6		r6	r6							
- :	20s6	s5												2	2	l .			
	21								s22										
	22					r5			r5			r5							