(main Function) -> MAIN SOPO SOR (STAN AND FUNC DEFS) END <mainfunction> addr = <stntAnthucoges.adder</p> < Stratad Runcleffs -> (Strat O+ Function Def) (N1) (strut And Functions). adds = new node (strut And Function), (strut or Function). adds, 3) (NI) -> (Stmt And Function Der) > adds (NID. addr) < NIS. addr = < stmt And Function Defs. addr 4) (NI) -> Epulon <NI>. addr = NULL < strat Or Func Dof) -> < strat) < stnt Or Fure Diff. addr = < stnt). addr (stretor Function Dof) < strutor hum Defs. addr = < function Defs. addr (stat) -> < declaration stat) < stnt), addr = <declarationsfnt). addr 8) (strut) -> (assignment-type 1) < stret). addr = Cassignment - type 12. addr (stat) -> (assign-type2) (stat).colds > (assign: type2).adds 18) (stut) -> < [ifstut) estat). adds = <if strut). adds 11) (strut). adde oxiostruts. addr 12) (strut) -> (funcall strut). SEMICOLON (struct) adds = (funcall Struct) adds 15) < functionDeb) -> FUNCTION SQO (parameter-tist) SQC ASSIGNOP FUNID SQO (parameter - list2) SQC (strut And FunoDely) < function Deb. adder > > new made (terretion Deb., <par-11st 1). addr. FONID. add , < par_11:st 2). dollar, < struttend func Defes. adder) 14) (per_list) -> <type> ID (remaining List)

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28) < Lts-listvar) -> sqo(vag_list)sqc

<!hs - listvar) raddr = (varlist) adde</p>

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- 29) < rhs _ type 1> -> Casithmetic Expression> < rhs - type 1>. addr = < asithmetic Expression>. addr
- 30) < The type 1>. addr = < size Expression>. addr
- 31) <-hs-type 1> -> <funCallStrat>. addr = <tunCallStrat>. addr
- 52) <rhs. type >> <size Expression>. addr <rhs. type >>. oddr > <size Expression>. addr
- 33) <-rhs_type2> -> < tun Cell start> <-rhs_type2>, addr = <fun Cell start).addr
- 34) < size Expression> -> SIZE ID < size Expression> addr = new node (size Exp, 5/ZE, addr) ID. addr)
- 25) <ifs+mt> -> IF OP (boolean Exp) CL (strut) <atherstates (N2) <ifs+mt) addr = new node (if, <boolean Exp) addr, <strut) addressable (if)
- (N2) -> ELSE (strut) (N2) addr.) (N2). addr. = new nade (N2, (strut). addr., (orthorisms). addr.)
- 27) (N2) -> ENDIF SEMICOLON (N2), add, = NULL
- 38) (other Cruts) -> (Stat) < other States | 11 | & 2 to distinguish (other States). addr. = (other States). addr. (other). link = (other States). uddr.
- 39) (other State) -> eptilan (other Ants), addr = NULL
 - 40) ciost MD -> READ OP ID CL SEMICOCOM CIOS+nts. addr = new hade (io, READ. adds, 10. addr)
 - (i) (iostness) -> PRINT OF ID CL SEMICOLON <iostness, adds = new node (io, PRINT, adds, ID. adds)
- 42) <funcill8+not> -> FUNID OF <inputParameterList> CL <funcill8+nots.add = new node (+uncall, FUNID. addr, KinputParameterList).add)
 - 43) Zinfuttanametur List> -> <Van> < littlan).

 Linfuttanametur List>. addr = (van). addr.

 Link = < List vans. addr.
 - (44) < listvars comma < input Parametricity (44) < the charten control of the charter of the c
 - (15) < List br> and epsilon < Lint blan), adde = NULL
 - 46) (input Parameter list) -> epsellan (input Parameter list). adde 5 NULL

- Coperation lawpread -> Pus: coperator - losopsocs. addr = PLUS. addr 48) < operator_lowprec> -> MINUS Coperator_lowfree).adde = MINUS.adder 49) <op-lightrons -> MUL <op - highpreas. addr = MUL, addr 50) <op-highprec) -> DIV Cop_hightrees.addr = 111.addr 51) < boolean Ents -> or < boolean Ents (L < logical Ops of < boolean Exps cl (boolean Exp). addr o new node (bodent, choolean Exp). addr, < louisal Op). addr,

 (boolean Exp). addr) 52) (boolean Exp). adds = new node (600(Exp, (constrained Vars), adds, (volstional 0 p), adds, (constrained Vars). constraind Vars> adde TD. adde 54) < constrainad Vous> -> NUM (constrained Vours), addr = NUM. addr 55) <ur>
 Constraind Vares -> RNUM <constrained Varis > addr = RNUM. addr 56) < WAY -> ID < NS> Evar), addr = new node (von, ID. adda, <N5). addr) 57) (vas) -> NOM Cvars. addr = NOM. addr 58) KNOW -> RNOM <var>, adde = RNUM. addr 59) (voi) -> STR <var>. addr = 5TRraddr 60) (voh) -> (matrix) Abbo. (xinter) = Abbo. (rov) (18 CNS) -> <matrix Elements <NS>. addx = <matrix glements, addr
 - 63) <notrix> -> SQO <rous> SQC <notrix>.addr = <rous>.addr

62) (NS) \rightarrow obsition

LNZ> coppor = MANT

64) Kroups -> Kroups (NG) robbo, cosor> = rebbo, cour (row). Link = < NGS, addr 65) (NB) -> SEMICOLON (YOUS) (N6), adde = Knows >, addr 66) <16> > epulan < NAS, addr = NULL (46) Louis -> NUM Cremaining Colements MON. MON = sebbs. <er> NOM. Link = < remaining Cal Elements), adds 68) Fromaining (al Elements) -> comma num fromaining (al Elements) Gromaining collements D. addr = NUM. addr NOM. Link = <remaining Col Elements 2>. addr 69) Cremaining (Stements) -> epilon (romaining cot Elements), addin = NULL 70) (matrix Eliment) -> SQO NOM COMMA NUM SQL (mothing Element). adder = new node (motrix Element, NUM, addr., NUM, ad 71) < lagical Ops -> AND < logical Op>, addr = AND. adder 72) < logical Op> -> OR appeal Of S. addr = or addr 73) <booling > NOT OF < booling up > CL

 74) < relational >>> LT (rolational Op), addr = LT. addr 75) Crolational Op) -> LE <relational ap>. addy = LE. addr EQ <40/ensitelor> (25 Gralational Op) - coldn = EQ, addr 77) Crolation (Op) -> OT <relational Op>. addr= GT. adda

78) Grelational Op) -> GIE

<relational Op). addr = GE. addr

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29) Crolational Op> NE Crolational Op> addr = NE. addr 80) (authmetic Expression) -> (authmetic Tourn) <N3) Carithmetic Expression > addr = Hard Mark & more line