exeme		Mnemonic	
ine 1:			
ine 2: UNIT GOOD3B;	4.5		
NIT ntering Program	15	UNIT	-
OOD3B ntering prog-identifier	50	IDEN	0
ntering identifier	36	SEMI	_
xiting identifier xiting prog-identifier		5	
ine 3:			
ine 4: (* This Part 3B test	file should h	ave NO error	s! *)
ine 5: LABEL LOOP_START, JUM	Ρ;		
ABEL ntering Block	16	LABL	-
ntering label declaration OOP_START	50	IDEN	1
OUP_START	44	COMA	-
UMP	50	IDEN	2
	36	SEMI	-
ine 6: VAR COUNT, TOTAL : IN			
AR xiting label declaration	13	VAR	-
ntering variable-dec-sec			
OUNT	50	IDEN	3
ntering variable-declaration		COMA	
DTAL	44 50	COMA IDEN	- 4
ntering identifier	50	TDLIM	7
	47	COLN	-
xiting identifier NTEGER	1	INTR	_
ntering type	<u> </u>	±14111	
ntering simple type			
	36	SEMI	-
citing simple type			
iting type			
ine 7: VAR ST : STRING;			
AR	13	VAR	-
<pre>xiting variable-declaration xiting variable-dec-sec</pre>			
ntering variable-dec-sec			
	50	IDEN	5
tering variable-declaration			
	47	COLN	

47 24

36

STRING

Entering type
Entering simple type

Exiting simple type

COLN

STRG

SEMI

Exiting type

Line 8: VAR SUM, SUBTOTAL, MAX VAR Exiting variable-declaration Exiting variable-dec-sec Entering variable-dec-sec	: REAL; 13	VAR	-
SUM Entering variable-declaration	50	IDEN	6
, SUBTOTAL Entering identifier	44 50	COMA IDEN	7
, Exiting identifier	44	COMA	-
MAX Entering identifier	50	IDEN	8
: Exiting identifier	47	COLN	-
REAL Entering type	23	REAL	-
Entering simple type; Exiting simple type Exiting type	36	SEMI	-
Line 9:			
Line 10: BEGIN BEGIN Exiting variable-declaration Exiting variable-dec-sec Entering Block Body	11	BGIN	-
Line 11: FOR I := 1 TO 10 DO FOR	7	FOR	_
Entering statement I	50	IDEN	9
Entering variable Entering identifier := Exiting identifier Exiting variable	37	ASGN	-
1 Entering simple expression Entering term Entering Factor	51	INT	10
Entering Unsigned Constant Entering Unsigned Number TO Exiting Unsigned Number Exiting Unsigned Constant Exiting Factor	2	то	-
Exiting term Exiting simple expression 10 Entering simple expression Entering term Entering Factor	51	INT	11
Entering Unsigned Constant Entering Unsigned Number DO	3	DO	_

Exiting Unsigned Number Exiting Unsigned Constant Exiting Factor Exiting term Exiting simple expression			
Line 12: BEGIN BEGIN Entering statement Entering Block Body	11	BGIN	-
Line 13: TOTAL := TOTAL + I TOTAL Entering statement Entering variable	50	IDEN	4
<pre>Entering identifier := Exiting identifier Exiting variable</pre>	37	ASGN	-
TOTAL Entering simple expression Entering term Entering Factor	50	IDEN	4
Entering variable Entering identifier + Exiting identifier Exiting variable Exiting Factor	32	PLUS	-
Exiting term Entering addop I Exiting addop Entering term Entering Factor Entering variable	50	IDEN	9
Entering identifier Line 14: END; END Exiting identifier Exiting variable Exiting Factor	12	END	-
Exiting term Exiting simple expression Exiting statement ; Exiting Block Body Exiting statement Exiting statement	36	SEMI	-
Line 15:			
Line 16: REPEAT REPEAT Entering statement	17	REPT	-
Line 17: TOTAL := TOTAL - 1 TOTAL Entering statement Entering variable	50	IDEN	4

Entering identifier := Exiting identifier	37	ASGN	-
Exiting variable TOTAL Entering simple expression Entering term Entering Factor	50	IDEN	4
Entering variable Entering identifier - Exiting identifier	33	MINU	-
Exiting variable Exiting Factor Exiting term Entering addop	51	INT	10
Exiting addop Entering term Entering Factor Entering Unsigned Constant			
Entering Unsigned Number Line 18: UNTIL TOTAL <= 20; UNTIL Exiting Unsigned Number	18	UNTL	-
Exiting Unsigned Constant Exiting Factor Exiting term Exiting simple expression			
Exiting statement TOTAL Entering rel expression Entering simple expression Entering term Entering Factor Entering variable	50	IDEN	4
Entering identifier <= Exiting identifier Exiting variable Exiting Factor	41	LESE	-
Exiting term Exiting simple expression Entering relop 20 Exiting relop	51	INT	12
Entering simple expression Entering term Entering Factor Entering Unsigned Constant			
Entering Unsigned Number; Exiting Unsigned Number Exiting Unsigned Constant Exiting Factor Exiting term Exiting simple expression Exiting rel expression Exiting statement	36	SEMI	-

Line 19:

Line 20: IF TOTAL > 15 THEN		
IF	4	IF -
Entering statement		
TOTAL	50	IDEN 4
Entering rel expression		
Entering simple expression		
Entering term		
Entering Factor		
Entering variable		
Entering identifier		
>	38	GTR -
Exiting identifier		
Exiting variable		
Exiting Factor		
Exiting term		
Exiting simple expression		
Entering relop		
15	51	INT 13
Exiting relop		
Entering simple expression		
Entering term		
Entering Factor		
Entering Unsigned Constant		
Entering Unsigned Number		
THEN	5	THEN -
Exiting Unsigned Number	_	
Exiting Unsigned Constant		
Exiting Factor		
Exiting term		
Exiting simple expression		
Exiting rel expression		
Exiting Tel expression		
Line 21: BEGIN		
BEGIN	11	BGIN -
Entering statement		DOIN
Entering Block Body		
Liter ing block body		
Line 22: WHILE TOTAL > 10 DO		
WHILE	14	WHIL -
Entering statement		***************************************
TOTAL	50	IDEN 4
Entering rel expression	30	10111
Entering simple expression		
Entering term		
Entering Factor		
Entering variable		
Entering identifier		
_	38	GTR -
> Eviting identifien	36	GIK -
Exiting identifier		
Exiting variable		
Exiting Factor		
Exiting term		
Exiting simple expression		
Entering relop	Г1	TNT 11
10	51	INT 11
Exiting relop		
Entering simple expression		
Entering term		
Entering Factor		

Entering Unsigned Constant Entering Unsigned Number DO Exiting Unsigned Number Exiting Unsigned Constant Exiting Factor Exiting term Exiting simple expression Exiting rel expression	3	DO	-
Line 23: TOTAL := TOTAL TOTAL Entering statement Entering variable	- (2 * 1) 50	IDEN	4
Entering identifier := Exiting identifier	37	ASGN	-
Exiting variable TOTAL Entering simple expression Entering term Entering Factor Entering variable	50	IDEN	4
Entering identifier Exiting identifier Exiting variable Exiting Factor Exiting term	33	MINU	-
Entering addop (Exiting addop Entering term	34	LPRN	-
Entering Factor 2 Entering simple expression Entering term Entering Factor Entering Unsigned Constant Entering Unsigned Number	51	INT	14
* Exiting Unsigned Number Exiting Unsigned Constant Exiting Factor Entering mulop	31	MUL	-
Exiting mulop Entering Factor Entering Unsigned Constant Entering Unsigned Number	51	INT	10
) Exiting Unsigned Number Exiting Unsigned Constant Exiting Factor Exiting term Exiting simple expression	35	RPRN	-
Line 24: END END Exiting Factor Exiting term	12	END	-

Exiting simple expression Exiting statement Exiting statement			
Line 25: ELSE ELSE Exiting Block Body Exiting statement	6	ELSE	_
Line 26: IF TOTAL < 12 THEN IF	4	IF	_
Entering statement TOTAL	50	IDEN	4
Entering rel expression Entering simple expression Entering term Entering Factor Entering variable	30	IDEN	4
Entering identifier			
<pre>Exiting identifier Exiting variable Exiting Factor Exiting term Exiting simple expression Entering relop</pre>	39	LESS	-
12	51	INT	15
Exiting relop Entering simple expression Entering term Entering Factor Entering Unsigned Constant Entering Unsigned Number			
THEN Exiting Unsigned Number Exiting Unsigned Constant Exiting Factor Exiting term Exiting simple expression Exiting rel expression	5	THEN	-
Line 27: WRITELN(TOTAL);			
WRITELN Entering statement	9	WTLN	-
(34	LPRN	-
TOTAL	50	IDEN	4
) ;	35 36	RPRN SEMI	-
Exiting statement Exiting statement Exiting statement	30	SEMI	
Line 28: JUMP: SUM := 275.55 / JUMP	200.77; 50	IDEN	2
<pre>Entering statement :</pre>	47	COLN	
SUM	50	IDEN	6
Entering variable			-
<pre>Entering identifier :=</pre>	37	ASGN	_
Exiting identifier			

Exiting variable 275.55 Entering simple expression Entering term Entering Factor	52	FLOT	16
Entering Unsigned Constant Entering Unsigned Number / Exiting Unsigned Number Exiting Unsigned Constant	30	DIV	-
Exiting Factor Entering mulop 200.77 Exiting mulop	52	FLOT	17
Entering Factor Entering Unsigned Constant Entering Unsigned Number :	36	SEMI	<u>-</u>
Exiting Unsigned Number Exiting Unsigned Constant Exiting Factor Exiting term Exiting simple expression	30	32.12	
Exiting statement			
Line 29: IF SUM > 5.0 THEN IF	4	IF	-
Entering statement SUM Entering rel expression	50	IDEN	6
Entering simple expression Entering term Entering Factor Entering variable			
Entering identifier >	38	GTR	-
Exiting identifier Exiting variable Exiting Factor Exiting term Exiting simple expression			
Entering relop 5.0	52	FLOT	18
Exiting relop Entering simple expression Entering term Entering Factor Entering Unsigned Constant			
Entering Unsigned Number THEN Exiting Unsigned Number Exiting Unsigned Constant Exiting Factor Exiting term	5	THEN	-
Exiting simple expression Exiting rel expression			
Line 30: GOTO JUMP GOTO	0	GOTO	-
Entering statement JUMP	50	IDEN	2

Entering label Entering identifier

Line 31: END.

END 12

Exiting identifier

Exiting label

Exiting statement

Exiting statement

48

END -

PERD

Exiting Block Body
Exiting Block
Exiting Program

 $\sim\!\!\!\sim$ Congratulations, Part3BG00D-1.txt compiled without errors! $\sim\!\!\!\sim$

 ${\sim\!\!\!\sim\!\!\!\sim}$ Warning! LOOP_START is an unused label! ${\sim\!\!\!\sim\!\!\!\sim}$

1	Symbo	l Table	
Lexeme	Kind	Type	Value
GOOD3B	Var	STRING	0
LOOP_START	Label	STRING	0
JUMP	Lused	STRING	0
COUNT	Var	STRING	0
TOTAL	Var	STRING	0
ST	Var	STRING	0
SUM	Var	STRING	0
SUBTOTAL	Var	STRING	0
MAX	Var	STRING	0
I	Var	STRING	0
1	Const	INT	1
10	Const	INT	10
20	Const	INT	20
15	Const	INT	15
2	Const	INT	2
12	Const	INT	12
275.55	Const	FLOAT	275.54998779296875
200.77	Const	FLOAT	200.77000427246094
5.0	Const	FLOAT	5.0