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DPS 8 Editor - Loops and Arrays Overview

- Loops and Arrays are used in DPS 8 to allow a document to contain any number of items, such as Directors in Articles Of Incorporation and Stockholders in Securities in the Corporation Area Of Law

  - It is easier to create a new Loop and new Array by Copying a Loop or an Array from an existing Module then pasting it in your new Module

<Root level>

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- The following Printouts show:

  - A standard Loop in Screens 66 - 76

```
Page 1 of 4          Articles Of Incorporation (AR03)          May 12, 2022 2:01:54 PM

Invisible Screen   (O30)
  Visible: FALSE
  Code: ASSIGN(S2, 1)

You Would Like To   (O33)
  ParentPlus: (N46.1>0)
  Code: IF(DONE(0), GOTO(N46.1))
  IF((O33.5=1), GOTO(N46.1))
  ASSIGN(N36.1, "")
  ASSIGN(N37.1, N76.1.1)
  ASSIGN(N73.1, N76.1.1)
  ASSIGN(N74.0, N76.1.1)
  ASSIGN(N72.2, "")
    Add Another Director
      Formatting: SETCALC
    Change A Director
    Delete A Director
    Move A Director
    You Are Finished With Directors

New Director Should Be Added After   (N36)
  Code: ASSIGN(S2, (DROPVALUE(N36.1)+1))
  INSERT(N76.0.S2, "")
  ASSIGN(N76.0.S2, "")
  ASSIGN(N46.1, (N46.1+1))
    Director
      Formatting: UL
      Lookup: DROPARRAY(N76.1,FIRST,LAST,NOBLANK,(DEFAULT=LAST))
    S2 Is Number Of Prior Director
      Visible: FALSE

Information Should Be Changed For   (N37)
  Code: ASSIGN(S2, DROPVALUE(N37.1))
    Director
      Formatting: UL
      Lookup: DROPARRAY(N76.1,NOBLANK)
    S2 Is Number Of Director
      Visible: FALSE
```

Director To Be Deleted   (N73)
  Code: ASSIGN(S2, DROPVALUE(N73.1))
  REMOVE(N76.0.S2, "")
  ASSIGN(N46.1, (N46.1-1))
  IF((N46.1=0), GOTO(N75.1))
  GOTO(O33.1)
    Director
      Formatting: UL
      Lookup: DROPARRAY(N76.1,NOBLANK)
    S2 Is Number Of Director
      Visible: FALSE

Director To Be Moved   (N74)
  Code: ASSIGN(N74.3, DROPVALUE(N74.1))
  ASSIGN(N74.4, (DROPVALUE(N74.2)+1))
  MOVE(N76.0.N74.3, N76.0.N74.4)
  GOTO(O33.1)
    Director To Be Moved
      Formatting: UL
      Lookup: DROPARRAY(N76.1,NOBLANK)
    Director Should Be Moved After Director
      Formatting: UL
      Lookup: DROPARRAY(N76.1,FIRST,NOBLANK)
    Number Of Director To Be Moved
      Visible: FALSE
    Where Director Is To Be Moved
      Visible: FALSE

Invisible Screen For Loop   (N75)
  Visible: FALSE
  Code: STARTLOOP(S2, S2)

3

Director # [S2]   (N76)
  Code: SET(D20.S2, "")
  IF((N46.1<1), ASSIGN(N46.1, 1))
  IF(ISBLANK(N76.1.S2), ASSIGN(N46.1, (N46.1-1)))
  IF(ISBLANK(N76.1.S2), ASSIGN(N72.2, 1))
  IF((N72.2=1), REMOVE(N76.0.S2, ""))
  EXITLOOP(S2, (N72.2=1))
  EXITLOOP(S2, ((O33.1+O33.2)>0))
  ASSIGN(N46.1, (N46.1+1))
  ASSIGN(S2, (S2+1))
  ENDLOOP(S2)
    Name Of Director # [S2] (Leave Blank If No More)
      Formatting: ALPHA,REQ
      Lookup: NAME
      Shared: N11.1
    Street Address
      Lookup: STREET
      Shared: N11.2
    City
      Formatting: ALPHA
      Lookup: CITY
      Shared: N11.3
    [N65.2/State]
      Formatting: STATE
      Lookup: STATE
      Shared: N11.4
    Zip Code
      Formatting: ZIP
      Lookup: ZIP
      Shared: N11.5

Invisible Screen   (C27)
  Visible: FALSE
  Code: ASSIGN(N72.2, "")
  IF(((NOT(DONE(0)) AND ((O33.1+O33.2)>0)) AND (N46.1>0)), GOTO(O33.1))

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Invisible Screen   (N46)
  Visible: FALSE
  Code: ASSIGN(N46.1, FORMAT(N46.1, INT))
  ASSIGN(N46.2, FORMAT(N46.1, SPINT, LC))
  ASSIGN(N46.3, LOOKUP(N46.1, 1, 2, PLURAL))
  ASSIGN(N46.4, LOOKUP(N46.1, 1, 3, PLURAL))
  ASSIGN(N46.5, LOOKUP(N46.1, 1, 15, PLURAL))
    Number Of Initial Directors
      Shared: N37.1
    Number Of Directors -- Spint -- Lc
    Blank / S - Directors
    Is / Are - Directors
    Its / Their - Directors

Invisible Screen   (N11)
  Visible: FALSE
  Code: ASSIGN(N11.1, LOOKUP(N46.1, 1, 11, PLURAL))
    Blank / Es - Directors

- The following Printout shows:

  - A standard Loop in Processing Records 165 - 173

```
- - - - @132 Nothing for loop  -- #165
        Code to Execute: STARTLOOP(P1, 1)

- - - - @132 Director(s)  -- #166

- - - - - @566 Return tab street of director  -- #167
          Code: NOT(ISBLANK(N76.2.P1))

- - - - - @566 Return tab city of director  -- #168
          Code: NOT(ISBLANK(N76.3.P1))

- - - - - @566 Return tab  -- #169
          Code: ISBLANK(N76.3.P1)

- - - - - @566 Comma  -- #170
          Code: (NOT(ISBLANK(N76.3.P1)) AND NOT(ISBLANK(N76.4.P1)))

- - - - - @566 Space state of director  -- #171
          Code: NOT(ISBLANK(N76.4.P1))

- - - - - @566 Space zip code of director  -- #172
          Code: NOT(ISBLANK(N76.5.P1))

- - - - @132 Nothing for loop  -- #173
        Code to Execute: ASSIGN(P1, (P1+1))
        EXITLOOP(P1, (P1>N46.1))
        ENDLOOP(P1)
```

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Screens

- Explanation regarding coding of Screens:

    - O30 - Is an Invisible Screen which assigns the value of 1 to Counter S2
    - O33 - Code means:
        - **IF(DONE(0),GOTO(N46.1))** - If the Document is produced - exits the Loop
        - **IF((O33.5=1),GOTO(N46.1))** - If Line 5 is selected - exits the Loop
        - By selecting a Line determines whether a Director is to be added, a Director is to be changed, a Director is to be deleted, a Director is to be moved or you are finished with Directors
        - **ASSIGN(N36.1,""), ASSIGN(N37.1,N76.1.1), ASSIGN(N73.1,N76.1.1) AND ASSIGN(N74.1,N76.1.1)** - assigns default answers to those Screen Lines
        - **ASSIGN(N72.2,"")** - sets switch that is in a Loop
        - **SETCALC** - makes sure that all Code on this and subsequent Screens is executed
    - N36 - For adding a Director, Code means:
        - **ASSIGN(S2,(DROPVALUE(N36.1)+1))** - sets the Counter to one more than the number of the Director selected in the drop-down box
        - **INSERT(N76.0.S2,"")** - inserts a N76 Screen at the location S2
        - **ASSIGN(N76.0.S2,"")** - blanks all of the Lines on the inserted N76
        - **ASSIGN(N46.1,(N46.1+1))** - increases the number of Directors by one
        - **DROPARRAY(N76.1,FIRST,LAST,NOBLANK,(DEFAULT=LAST))** - creates a drop-down list for the first line from the answers in N76.1, with no blank option and an option for At Beginning and At End where the default answer is At End
    - N37 - For changing a Director, Code means:
        - **ASSIGN(S2,(DROPVALUE(N37.1))** - sets the Counter to the number of the Director selected in the drop-down box
        - **DROPARRAY(N76.1,NOBLANK)** - creates a drop-down list for the first line from the answers in N76.1, with no blank option
    - N73 - For deleting a Director, Code means:
        - **ASSIGN(S2,(DROPVALUE(N73.1))** - sets the Counter to the number of the Director selected in the drop-down box
        - **REMOVE(N76.0.S2,"")** - remove the N76 Screen at location S2
        - **ASSIGN(N46.1,(N46.1-1))** - decreases the number of Directors by one
        - **IF((N46.1=0),GOTO(N75.1))** - If the number of Directors is 0 - goes to the beginning of the Loop
        - **GOTO(O33.1))** - goes to O33 to determine what next to do for Directors
        - **DROPARRAY(N76.1,NOBLANK)** - creates a drop-down list for the first line from the answers in N76.1, with no blank option

- **N74** - For moving a Director, Code means:
  - **ASSIGN(N74.3,(DROPVALUE(N74.1))** - sets the Counter to the number of the Director selected in the drop-down box
  - **ASSIGN(N74.4,(DROPVALUE(N74.2)+1))** - sets the Counter to the number of the Director selected in the drop-down box plus 1
  - **MOVE(N76.0.N74.3, N76.0.N74.4)** - move the N76 Screen from location N74.3 to location N74.4
  - **GOTO(O33.1))** - goes to O33 to determine what next to do for Directors
  - **DROPARRAY(N76.1,NOBLANK)** - creates a drop-down list for the first line from the answers in N76.1, with no blank option
  - **DROPARRAY(N76.1,NOBLANK)** - creates a drop-down list for the first line from the answers in N76.1, with a first and a no blank option
- **N75** - Is an Invisible Screen which starts the loop S2 with an initial value of S2
- **N76** - For entering information regarding a Director
  - **SET(D20.S2,"")** - sets the Counter D20.S2 to blank
  - **IF(ISBLANK(N76.1.S2,ASSIGN(N46.1,(N46.1-1)))** - if the name of the Director is blank, reduces the number of Directors by 1
  - **IF(ISBLANK(N76.1.S2,ASSIGN(N72.2,1))** - if the name of the Director is blank, sets the switch N72.2 to 1
  - **IF((N72.2=1), REMOVE(N76.0.S2, ""))** - if Switch N72.2 is 1, removes the N76 Screen at location S2
  - **EXITLOOP(S2, (N72.2= 1))** - if Switch N72.2 is 1, exits loop S2
  - **EXITLOOP(S2, ((033.1 +033.2) > 0))** - if O33.1 plus O33.2 is greater than zero, exits loop S2
  - **ASSIGN(N46.1, (N46.1 +1))** - increases the number of Directors by one
  - **ASSIGN(S2, (S2+1))** - increases S2 by one
  - **ENDLOOP(S2)** - end of Loop S2
  - **Formatting: ALPHA,REQ** - Formats as alpha and is required - see other formatting codes
  - **Lookup: NAME** - is a name - see other lookup codes
  - **Shared: N11.1** - is shared among documents in this area of law as N11.1 - see other shared codes
- **C27** - Is an Invisible Screen which may then go to screen O33
  - **IF(((NOT(DONE(O)) AND ((033.1 +033.2) > 0)) AND (N46.1 > 0)), GOT0(033.1))** - if the document is not being produced and O33.1 plus O33.2 is greater than zero and the number of the Directors is greater than zero go to O33 to determine what next to do for Directors
- **N46** - Is an Invisible Screen which assigns variables, Code means, based on the value of N46.1:
  - **ASSIGN(N46.1, FORMAT(N46.1, INT))** - assigns to N46.1 the value of N46.1 as an integer - i.e. 5
  - **ASSIGN(N46.2, FORMAT(N46.1, SPINT, LC))** - assigns to N46.2 the value of N46.1 as a lower case spelled out integer - i.e. five
  - **ASSIGN(N46.3, LOOKUP(N46 .1, 1, 2, PLURAL))** - assigns to N46.3 the value of column 2 from the Lookup Table PLURAL - i.e. s
  - **ASSIGN(N46.4, LOOKUP(N46 .1, 1, 3, PLURAL))** - assigns to N46.4 the value of column 3 from the Lookup Table PLURAL - i.e. are
  - **ASSIGN(N46.5, LOOKUP(N46 .1I 1I 15, PLURAL))** - assigns to N46.5 the value of column 15 from the Lookup Table PLURAL - i.e. their

- N11 - Is an Invisible Screen which assigns variable, Code means, based on the value of N46.1:
    - **ASSIGN(N11.1, LOOKUP(N46 .1, 1, 11, PLURAL))** - assigns to N11.1 the value of column 11 from the Lookup Table PLURAL - i.e. blank

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Processing

- Explanation regarding coding of Processing:

  - **#165** - Is the beginning of loop P1
    - Document is blank
    - Code executed is: **STARTLOOP(P1, 1)** - P1 is initially 1
  - **#166** - Is information regarding Director # P1
    - Document has name of Director # P1
  - **#167** - Is information regarding Director # P1
    - Document inserts **if N76 .2.P1 is not blank** and has a line return and tab and the street of Director # P1
  - **#168** - Is information regarding Director # P1
    - Document inserts **if N76 .3.P1 is not blank** and has a line return and tab and the city of Director # P1
  - **#169** - Is information regarding Director # P1
    - Document inserts **if N76 .3.P1 is blank** and has a line return and tab
  - **#170** - Is information regarding Director # P1
    - Document inserts **if N76 .3.P1 and N76.4 are not blank** and has a comma
  - **#171** - Is information regarding Director # P1
    - Document inserts **if N76 .4.P1 is not blank** and has the state of Director # P1
  - **#172** - Is information regarding Director # P1
    - Document inserts **if N76 .5.P1 is not blank** and has a space and the zip code of Director # P1
  - **#173** - Is the end of loop P1
    - Document is blank
    - Code executed is:
      - **ASSIGN(P1, (P1+1))** - increase P1 by 1
      - **EXITLOOP(P1 / (P1 > N46.1))** - exit loop P1 if P1 is greater than number of Directors
      - **ENDLOOP(P1)** - the end of loop P1 so go to the beginning of loop P1

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Arrays

- Arrays are Loops withion Loops and are used in DPS 8 to allow a document to contain any number of items, such as Shareholders in Securities in the Corporation Area Of Law

- Information from screens is stored in an array. The letter is the type of screen, e.g. N, C, T and O. The first number is the screen number, the second number is the row and the third number is the column of the array. If 0 is the second or third number the entire row or column is being referenced. Examples are:
  - N4.3.5 -- Is screen N4. The cell referred to is in row 3 and column 5
  - N4.0.5 -- Is screen N4. The column referred to is 5
  - N4.1.0 -- Is screen N4. The row referred to is 1

- The following Printouts show:

  - The interior Loop showing Stockholders for Stock Certificate # P1 in Screens 164 - 176

Invisible Screen (C18)
  Visible: FALSE
  Code: ASSIGN(S2, 1)
  ASSIGN(N74.0.0, "")

For Certificate # [N52.1.S1] You Would Like To (O16)
  ParentPlus: (N78.1.S1>0)
  Code: IF(DONE(0), GOTO(N78.1))
  IF((O16.5.S1=1), GOTO(N78.1))
  ASSIGN(N68.1.S1, "")
  ASSIGN(N69.1.S1, N75.S1.1)
  ASSIGN(N70.1.S1, N75.S1.1)
  ASSIGN(N71.0.S1, N75.S1.1)
  ASSIGN(N11.3, "")
    Add Another Shareholder
     Formatting: SETCALC
    Change A Shareholder
    Delete A Shareholder
    Move A Shareholder
    You Are Finished With Shareholders

New Shareholder Should Be Added After (N68)
  Code: ASSIGN(S2, (DROPVALUE(N68.1.S1)+1))
  INSERT(N75.S1.S2, "")
  ASSIGN(N75.S1.S2, "")
  ASSIGN(N74.0.0, "")
  ASSIGN(N78.1.S1, (N78.1.S1+1))
    Shareholder
     Formatting: UL
     Lookup: DROPARRAY(N75.S1,FIRST,LAST,NOBLANK,(DEFAULT=LAST))
    S2 Is Number Of Prior Shareholder
     Visible: FALSE

Information Should Be Changed For (N69)
  Code: ASSIGN(S2, DROPVALUE(N69.1.S1))
  ASSIGN(N74.1.S2, N75.S1.S2)
    Shareholder
     Formatting: UL
     Lookup: DROPARRAY(N75.S1,NOBLANK)
    S2 Is Number Of Shareholder
     Visible: FALSE

Shareholder To Be Deleted   (N70)
  Code: ASSIGN(S2, DROPVALUE(N70.1.S1))
  REMOVE(N75.S1.S2, "R")
  ASSIGN(N78.1.S1, (N78.1.S1-1))
  IF((N78.1.S1=0), GOTO(N72.1))
  GOTO(O16.1)
    Shareholder
      Formatting: UL
      Lookup: DROPARRAY(N75.S1,NOBLANK)
    S2 Is Number Of Shareholder
      Visible: FALSE

Shareholder To Be Moved   (N71)
  Code: ASSIGN(N71.3, DROPVALUE(N71.1.S1))
  ASSIGN(N71.4, (DROPVALUE(N71.2.S1)+1))
  MOVE(N75.S1.N71.3, N75.S1.N71.4)
  GOTO(O16.1)
    Shareholder To Be Moved
      Formatting: UL
      Lookup: DROPARRAY(N75.S1,NOBLANK)
    Shareholder Should Be Moved After Shareholder
      Formatting: UL
      Lookup: DROPARRAY(N75.S1,FIRST,NOBLANK)
    Number Of Shareholder To Be Moved
      Visible: FALSE
    Where Shareholder Is To Be Moved
      Visible: FALSE

Invisible Screen For Start Of Loop S2   (N72)
  Visible: FALSE
  Code: STARTLOOP(S2, S2)

Shareholder Of Certificate # [N52.1.S1]   (N74)
   Code: IF((N78.1.S1<1), ASSIGN(N78.1.S1, 1))
   IF(ISBLANK(N74.1.S2), ASSIGN(N78.1.S1, (N78.1.S1-1)))
   IF(ISBLANK(N74.1.S2), ASSIGN(N11.3, 1))
   IF((N11.3=1), REMOVE(N75.S1.S2, "R"))
   EXITLOOP(S2, (N11.3=1))
   ASSIGN(N75.S1.S2, N74.1.S2)
      Name Of Shareholder # [S2] (Leave Blank If No More)
         Formatting: ALPHA,REQ
         Lookup: NAME

Invisible Screen For Information In Loop   (N75)
   Visible: FALSE
   ParentPlus: FALSE
      Name Of Shareholder

Invisible Screen For End Of Loop S2   (C58)
   Visible: FALSE
   Code: EXITLOOP(S2, ((O16.1.S1+O16.2.S1)>0))
   ASSIGN(N78.1.S1, (N78.1.S1+1))
   ASSIGN(S2, (S2+1))
   ENDLOOP(S2)

Invisible Screen For Start Of Loop   (C125)
   Visible: FALSE
   Code: STARTLOOP(S8, 1)

Invisible Screen For End Of Loop   (C126)
   Visible: FALSE
   Code: ' Remove blanks at end of array
   ASSIGN(S9, (N78.1.S1+1))
   REMOVE(N75.S1.S9, "R")
   ASSIGN(S8, (S8+1))
   EXITLOOP(S8, (S8>20))
   ENDLOOP(S8)

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Invisible Screen (N78)

  Visible: FALSE

  Code: ASSIGN(N11.3, "")

ASSIGN(N78.2.S1, LOOKUP(N78.1.S1, 1, 3, PLURAL))

ASSIGN(N78.3.S1, LOOKUP(N78.1.S1, 1, 2, PLURAL))

ASSIGN(N78.4.S1, LOOKUP(N78.1.S1, 1, 7, PLURAL))

ASSIGN(N78.5.S1, FORMAT(N78.3.S1, CAPS))

IF(((NOT(DONE(0)) AND ((O16.1.S1+O16.2.S1)>0)) AND (N78.1.S1>0)), GOTO(O16.1))
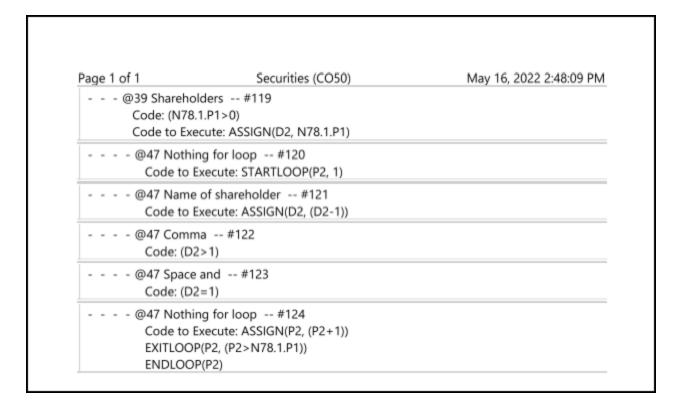
    Number Of Shareholders

    Is / Are -- Owners Of Certificate

    S -- Owners Of Certificate

    Does / Do -- Owners Of Certificate

    S -- Owners Of Certificate - Caps

- The following Printout shows:

    - The interior loop showing Stockholders for Stock Certificate # P1 in Processing Records 119 - 124

```
Page 1 of 1                    Securities (CO50)                 May 16, 2022 2:48:09 PM
- - - @39 Shareholders -- #119
        Code: (N78.1.P1>0)
        Code to Execute: ASSIGN(D2, N78.1.P1)

- - - - @47 Nothing for loop -- #120
            Code to Execute: STARTLOOP(P2, 1)

- - - - @47 Name of shareholder -- #121
            Code to Execute: ASSIGN(D2, (D2-1))

- - - - @47 Comma -- #122
            Code: (D2>1)

- - - - @47 Space and -- #123
            Code: (D2=1)

- - - - @47 Nothing for loop -- #124
            Code to Execute: ASSIGN(P2, (P2+1))
            EXITLOOP(P2, (P2>N78.1.P1))
            ENDLOOP(P2)
```

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Screens

Explanation regarding coding of Screens:

- **C18** - Is an Invisible Screen which assigns the value of 1 to Counter S2 and sets all N74 lines to blank
- **O16** - Code means:
    - **ParentPlus: (N78.1.S1 > 0)** - Screen appears only if number of Stockholders is greater than zero
    - **IF(DONE(0),GOTO(N78.1))** - If the Document is produced - exits the Loop
    - **IF((O16.5=1),GOTO(N79.1))** - If Line 5 is selected - exits the Loop
    - By selecting a Line determines whether a Stockholder is to be added, a Stockholder is to be changed, a Stockholder is to be deleted, a Stockholder is to be moved or you are finished with Stockholders
    - **ASSIGN(N68.1.S1,""), ASSIGN(N69.1.S1,N75.S1.1), ASSIGN(N70.1.S1,N75.S1.1) AND ASSIGN(N71.0.S1,N75.S1.1)** - assigns default answers to those Screen Lines
    - **ASSIGN(N11.3,"")** - sets switch that is in a Loop
    - **SETCALC** - makes sure that all Code on this and subsequent Screens is executed
- **N68** - For adding a Stockholder, Code means:
    - **ASSIGN(S2,(DROPVALUE(N68.1.S1)+1))** - sets the Counter to one more than the number of the Stockholders selected in the drop-down box
    - **INSERT(N75.S1.S2,"")** - inserts a N75 Screen at the location S1.S2
    - **ASSIGN(N75.S1.S2,"")** - blanks the inserted N75
    - **ASSIGN(N74.0.0,"")** - blanks all lines of N74
    - **ASSIGN(N78.1.S1,(N78.1.S1+1))** - increases the number of Stockholders by one
    - **DROPARRAY(N75.S1,FIRST,LAST,NOBLANK,(DEFAULT=LAST))** - creates a drop-down list for the first line from the answers in N75.S1, with no blank option and an option for At Beginning and At End where the default answer is At End
- **N69** - For changing a Stockholder, Code means:
    - **ASSIGN(S2,(DROPVALUE(N69.1.S1))** - sets the Counter to the number of the Stockholder selected in the drop-down box
    - **ASSIGN(N74.1.S2,N75.S1.S2)** - inserts the current name of Stockholder
    - **DROPARRAY(N75.S1,NOBLANK)** - creates a drop-down list for the first line from the answers in N75.S1, with no blank option
- **N70** - For deleting a Stockholder, Code means:
    - **ASSIGN(S2,(DROPVALUE(N70.1.S1))** - sets the Counter to the number of the Stockholder selected in the drop-down box
    - **REMOVE(N75.S1.S2,"R")** - remove the N75 Screen at location S1.S2
    - **ASSIGN(N78.1.S1,(N78.1.S1-1))** - decreases the number of Stockholders by one
    - **IF((N78.1.S1=0),GOTO(N72.1))** - If the number of Stockholders is 0 - goes to the beginning of the Loop
    - **GOTO(O16.1))** - goes to O33 to determine what next to do for Stockholders
    - **DROPARRAY(N75.S1,NOBLANK)** - creates a drop-down list for the first line from the answers in N75.S1, with no blank option

- **N71** - For moving a Stockholder, Code means:
    - **ASSIGN(N71.3,(DROPVALUE(N71.1.S1))** - sets the Counter to the number of the Stockholder selected in the drop-down box:
    - **ASSIGN(N71.4,(DROPVALUE(N71.2.S1)+1)** - sets the Counter to the number of the Stockholder selected in the drop-down box plus 1
    - **MOVE(N75.S1.N71.3, N75.S1.N71.4)** - move the N75 Screen from location N71.3 to location N71.4
    - **GOTO(O16.1))** - goes to O163 to determine what next to do for Stockholders
    - **DROPARRAY(N75.S1,NOBLANK)** - creates a drop-down list for the first line from the answers in N75.1, with no blank option
    - **DROPARRAY(N75.S1,FIRST,NOBLANK)** - creates a drop-down list for the first line from the answers in N75.1, with a first and a no blank option
- **N72** - Is an Invisible Screen which starts the loop S2 with an initial value of S2
- **N74** - For entering information regarding a Stockholder
    - **IF(N78.1.S1<0,ASSIGN(N78.1.S1,1))** - if the number of Stockholders is zero change it to 1
    - **IF(ISBLANK(N74.1.S2,ASSIGN(N78.1.S1,(N78.1.S1-1)))** - if the name of the Stockholder is blank, reduces the number of Stockholders by 1
    - **IF(ISBLANK(N74.1.S2,ASSIGN(N11.3,1))** - if the name of the Stockholder is blank, sets the switch N11.3 to 1
    - **IF((N11.3=1), REMOVE(N75.S1.S2, "R"))** - if Switch N11.3 is 1, removes the N75 Screen at location S1.S2
    - **EXITLOOP(S2, (N11.3= 1))** - if Switch N11.3 is 1, exits loop S2
    - **ASSIGN(N75.S1.S2, N74.1.S2))** - inserts the name of the Stockholder in N75.S1.S2
- **N75** - Invisible screen for storing the name of the Stockholder
- **C58** - Invisible screen for end of loop S2
    - **EXITLOOP(S2, ((016.1.S1 +016.2.S1) > 0))** - if O16.1.S1 plus O16.2.S1 is greater than zero, exits loop S2
    - **ASSIGN(N78.1.S1, (N78.1.S1+1))** - increases number of Stockholders one
    - **ASSIGN(S2, (S2+1))** - increases S2 by one
    - **ENDLOOP(S2)** - end of Loop S2
- **N78** - Is an Invisible Screen which assigns variables, Code means, based on the value of N78.1.S1:
    - **ASSIGN(N11.3,"")** - assigns switch N11.3 to blank - not in loop
    - **ASSIGN(N78.2.S1, LOOKUP(N78.1.S1, 1, 3, PLURAL))** - assigns to N78.2.S1 tthe value of column 3 from the Lookup Table PLURAL - i.e. are
    - **ASSIGN(N78.3.S1, LOOKUP(N78.1.S1, 1, 2, PLURAL))** - assigns to N78.3.S1 the value of column 2 from the Lookup Table PLURAL - i.e. s
    - **ASSIGN(N78.4.S1, LOOKUP(N78.1.S1, 1, 7, PLURAL))** - assigns to N78.4.S1 the value of column 7 from the Lookup Table PLURAL - i.e. doAre
    - **ASSIGN(N78.5.S1, FORMAT(N78.3.S1, CAPS))** - assigns to N78.5.S1 the value of N78.3.S1 in caps - i.e. S

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Processing

- Explanation regarding coding of Processing:

  - **#119** - Is the beginning of list of Stockholders
    - Document inserts **if N78 .1.P1 is greater than zero not blank** and Document is blank
    - Code executed is: **ASSIGN(P2, N78.1.P1)** - sets D2 to the number of Stockholders in Certificate P1
  - **#120** - Is the beginning of loop P2
    - Document is blank
    - Code executed is: **STARTLOOP(P2, 1)** - P2 is initially 1
  - **#121** - Is information regarding Stockholder # P2
    - Document has name of Stockholder # P2
    - Code executed is: **ASSIGN(D2, (D2-1))** - reduces D1 by 1
  - **#122** - Is information regarding Stockholder # P2
    - Document inserts **if D2 is greater than 1** and has a comma
  - **#123** - Is information regarding Stockholder # P2
    - Document inserts **if D2 is equal to 1** and has a space and an and
  - **#124** - Is the end of loop P2
    - Document is blank
    - Code executed is:
      - **ASSIGN(P2, (P2+1))** - increase P2 by 1
      - **EXITLOOP(P2 ,(P2 > N78.1.P1))** - exit loop P2 if P2 is greater than number of Stockholders in Certificate P1
      - **ENDLOOP(P2)** - the end of loop P2 so go to the beginning of loop P2

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