A2J Author®
New User Training

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Nested Repeat Loops
Agenda

- Repeat Loops in A2J & HotDocs – the problem
- The Solution
- Creating the A2J Guided Interview
- The HotDocs component
- Demo
- Questions
The Problem

• HotDocs Explicit Indexing: two-digit
  Ex. Child first name TE [2]
  Child city TE [2,1]

• A2J’s Explicit Indexing: one indexing or counting variable at a time
  Ex. Child first name TE [2]
  Child City TE [21]
### The Solution: A Work Around

<table>
<thead>
<tr>
<th>A2J Counter Variable</th>
<th>Corresponding HotDocs Variable</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>OutsideCount</td>
<td>ParentCtr NU</td>
<td>Tracks outside or parent loops</td>
</tr>
<tr>
<td>InsideCount</td>
<td>ChildCtr NU</td>
<td>Tracks inside or child loops</td>
</tr>
<tr>
<td>AbsoluteCount</td>
<td>ExpIndex NU</td>
<td>Unique index for each answer in the child loops</td>
</tr>
<tr>
<td>Array size NU</td>
<td>Array size NU</td>
<td>Maximum number of answers in any child loop</td>
</tr>
<tr>
<td>ICap NU</td>
<td>ICap NU</td>
<td>Total iterations in any given child loop</td>
</tr>
</tbody>
</table>
Child Loop Variables

Unlike most interviews, the HotDocs variables for the inner or child loops are not going to be used in the A2J Guided Interview.

Instead, we will create distinct A2J variables and HotDocs variables for the inner loops.

A HotDocs computation will parse and map the A2J variables to the corresponding HotDocs variables to simulate explicit indexing.
The A2J Component

2-Explanatory page

Repeat Options: Normal
Counting Variable:

Advanced Logic

Before:

After:
SET [Array size NU] TO 10
SET [InsideCount] TO 1
SET [OutsideCount] TO 1
SET [A2J repeat trigger TF] TO "true"
The A2J Component

3-Outside loop 1

Text audio: 

Learn More prompt: 

Help style: Text

Help: 

Help audio: 

Counting Variable: OutsideCount
The A2J Component

3-Outside loop 1

Destination: 4-Outside loop 2
Repeat Options: Normal
Counting Variable:

Advanced Logic

Before: 

After: SET [Add inside repeat TF] TO "true"
      SET [AbsoluteCount] TO [OutsideCount]*[Array size NU] +1
The A2J Component

Text: Provide %%%Child name first TE#OutsideCount%%’s prior address for the last five years. Note: List only 1 address on this page. If %%%Child name first TE#OutsideCount%% has other addresses for the last five years, click "List Another". Otherwise, click "Move On".

Text audio:

Learn More prompt:

Help style: Text

Help:

Help audio:

Counting Variable: AbsoluteCount
The A2J Component

Advanced Logic

Before:  

After: IF [Add inside repeat TF#AbsoluteCount] = true AND [InsideCount] <= {Array size NU]  
      SET [InsideCount] TO [AbsoluteCount] - ([Array size NU] * [OutsideCount]) + 1  
      END IF  
      IF [Add inside repeat TF#AbsoluteCount] = true AND [InsideCount] <= {Array size NU]  
      SET [AbsoluteCount] TO [AbsoluteCount] + 1  
      END IF  
      IF [Add inside repeat TF#AbsoluteCount] = true AND [InsideCount] > {Array size NU]  
      SET [icap NU#OutsideCount] TO InsideCount  
      END IF  
      IF [Add inside repeat TF#AbsoluteCount] = true AND [InsideCount] > {Array size NU]  
      GOTO "7-Oops exceeded array size"  
      END IF  
      IF [Add inside repeat TF#AbsoluteCount] = false  
      SET [icap NU#OutsideCount] TO InsideCount  
      END IF
## The Advanced Section Broken Down

<table>
<thead>
<tr>
<th>Condition</th>
<th>Action</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Add inside repeat TF#AbsoluteCount] = true AND InsideCount &lt;= [Array size NU]</td>
<td>IF TRUE THEN SET InsideCount = [AbsoluteCount] - [Array size NU] * [OutsideCount] + 1</td>
<td>Increments InsideCount if InsideCount is less than or equal to Array size NU.</td>
</tr>
<tr>
<td>[Add inside repeat TF#AbsoluteCount] = true AND InsideCount &lt;= [Array size NU]</td>
<td>IF TRUE THEN SET AbsoluteCount = AbsoluteCount + 1</td>
<td>Increments AbsoluteCount if InsideCount is less than or equal to Array size NU.</td>
</tr>
<tr>
<td>[Add inside repeat TF#AbsoluteCount] = true AND InsideCount &gt; [Array size NU]</td>
<td>IF TRUE THEN SET ICap NU#OutsideCount = InsideCount</td>
<td>Sets the Iteration Cap counter (ICap NU) for this outer loop to the value of InsideCount if InsideCount is greater than Array size NU.</td>
</tr>
<tr>
<td>[Add inside repeat TF#AbsoluteCount] = true AND InsideCount &gt; [Array size NU]</td>
<td>IF TRUE THEN GOTO (2)1-Oops!</td>
<td>Moves to the error message if the user tries to enter an 11th city.</td>
</tr>
<tr>
<td>[Add inside repeat TF#AbsoluteCount] = false</td>
<td>IF TRUE THEN SET ICap NU#OutsideCount = InsideCount</td>
<td>If Move On is selected, locks the Iteration cap (ICap NU) for the outer loop to the value of InsideCount, which is not incremented.</td>
</tr>
</tbody>
</table>
The Two Most Important Buttons

List Another Button

Move On Button
The HotDocs Component

1. All minor children, including those born to or adopted by both parties.

<table>
<thead>
<tr>
<th>Name</th>
<th>Birth Year</th>
<th>Minor primarily lives with:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

```
<REPEAT Children Information>

<Child name full CO> <Child birth year TE> 
<IF ANSWERED(Minor lives with MC) AND Minor lives with MC = "Petitioner">□<ELSE>□<END IF> Petitioner 
<IF ANSWERED(Minor lives with MC) AND Minor lives with MC = "Respondent">□<ELSE>□<END IF> Respondent 
<IF ANSWERED(Minor lives with MC) AND Minor lives with MC = "Other">□<ELSE>□<END IF> Other
```

```
<END REPEAT>

2. Residences of the Children.

<table>
<thead>
<tr>
<th>Children's Names</th>
<th>Address</th>
<th>Starting MM/YY</th>
<th>Ending MM/YY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

```
<REPEAT Children Information>

<Child name first TE> <Current address TE> <Start Current TE> Still lives here
```

```
<REPEAT Prior Residence>

<HD Child Prior Address TE> <HD Start Date TE> <HD End Date TE>
```

```
<END REPEAT>
<END REPEAT>
```
The HotDocs Component

Field type
- IF True/False Variable
- IF Expression

Expression:
ANSWERED(A2J repeat trigger TF) AND A2J repeat trigger TF

Components:
- A2J repeat trigger TF
- Array size NU
- Child address street TE
- Child city TE
- Child loop variables parser CO
- Child name first TE
- Child or Inner Loop
- Child state TE
- ChildCtrl NU
- City TE
- ExpIndex NU
- ExpNU

Expression models:
- Enter a Date
- Enter a Number
- Enter some Text
- Enter True or False
- ABSOLUTE VALUE(NUM)
- AGE(DATE)
- ANSWERED(VAR)
- ANSWERED(DIALOG)
- COUNT(DIALOG)
- COUNT(MULT_CHOICE_VAR)
- COUNTER
- DATE + NUM DAYS
- DATE - NUM DAYS
- DATE + NUM MONTHS
The HotDocs Component

```
SET ParentCr NU TO 1
SET ChildCr NU TO 1
SET ExplIndex NU TO (ParentCr NU * Array size NU) + 1
WHILE ParentCr NU < Outside Count:
    WHILE ChildCr NU <= Lcap NU[ParentCr NU]:
        SET HD Child Prior Address TE[ParentCrNU, ChildCrNU] TO Child prior address TE[ExplIndex NU]
        SET HD Start Date TE[ParentCrNU, ChildCrNU] TO Start date TE[ExplIndex NU]
        SET HD End Date TE[ParentCrNU, ChildCrNU] TO End date TE[ExplIndex NU]
        SET HD Current address TE[ParentCrNU, ChildCrNU] TO Current address TE[ExplIndex NU]
        INCREMENT ExplIndex NU
        INCREMENT ChildCr NU
    END WHILE
    INCREMENT ParentCr NU
    SET ChildCr NU TO 1
    SET ExplIndex NU TO (ParentCr NU * Array size NU) + 1
END WHILE
```
The HotDocs Component
The HotDocs Component

[Diagram of a HotDocs Component dialog editor with options for repeat fields and content entries.]
DEMO
Questions or Feedback?

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