

AOZ Studio Beta - Bug #888

On n Gosub and On n Goto function incorrectly.

01/31/2022 02:54 AM - Brian Flanagan

Status:	Rejected	Start date:	01/30/2022
Priority:	High	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0:00 hour
Target version:	none		
Affected version:	1.0.0 (B12) u19		

**Description**

The expression tested should return a number between 1 and the number of items being checked.  
The AOZ documentation examples are correct, but the description is wrong.

According to the AOZ (and AMOS) help, this code:

```
On X Goto LABEL1, LABEL2, LABEL3
```

...should be the equivalent of this:

```
If X=1 Then Goto LABEL1
If X=2 Then Goto LABEL2
If X=3 Then Goto LABEL3
```

In other words, On X should jump to the Xth item in the list.  
Right now, they're all offset by one.

Here's an example:

```
Palette $000000,$FFFFFF,$FFFF00

Do
  Pen 1 : Paper 0
  Print
  Input n
  If n < 1 Or n > 3
    Gosub OutOfRange
  Else
    Gosub InRange
  End If
  On n Gosub 100,DoIt,Quit

  Wait Vbl
  If done Then Exit
Loop
End

100 If n<>1 Then Gosub WrongJump
  Print "This should be the jump for 1."
Return

DoIt:
  If n <> 2 Then Gosub WrongJump
  Print "This should be the jump for 2."
Return

Quit:
  If n<> 3 Then Gosub WrongJump
  Print "This should be the jump for 3."
  done=true
Return
```

```
InRange:
    Print n;" is in range."
Return

OutOfRange:
    Pen 2 : Print n;" is out of range!  (No jump should occur.)" : Pen 1
Return

WrongJump:
    Pen 2 : Print "Wrong jump performed!" : Pen 1
Return
```

## History

---

### #1 - 02/05/2022 06:30 AM - Brian Flanagan

- Affected version set to 1.0.0 (B12) u19

### #2 - 02/12/2022 10:29 AM - David Baldwin

- Status changed from New to Rejected

This is a 'base index' issue. It works as you expect with Amiga manifest, however in AOZ manifest, the base index for the first call is zero.

Rejecting on these grounds.

### #3 - 02/13/2022 07:35 PM - Brian Flanagan

I understand it being a "base index" issue... but that is not justification for outright rejection.  
This is still a bug that needs to be addressed!

If we're going to have anything *non-standard* / *illogical* as a part of the language, we should *at least* provide a method of making the language work normally, as we did with **String Base Index n**

That's why I suggested adding:

#### **On Base n**

...where n = 0 or 1

...so we can specify whether we want the Nth or the N-1th item for On n Gosub and On n Goto.

(N-1 still still seems totally illogical.)