

## AOZ Studio Beta - Bug #347

**Function problem. The third time any user-defined function is called, AOZ will lock up.**

04/18/2020 02:57 PM - Brian Flanagan

<b>Status:</b>	Closed	<b>Start date:</b>	04/18/2020
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Francois Lionet	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0:00 hour
<b>Target version:</b>	0.9.9.4-r2		
<b>Affected version:</b>	0.9.9.3		

### Description

In the following example, I'm trying to re-define Instr to allow for a negative startingPosition parameter. The function works fine with any one or two of the following. If, however, the function is called a third time, the program will freeze.

```
Function "instr", st$, fnd$, strt
    result=0
    If Abs(strt) <= Len(st$)
        If strt < 0
            startPos=Len(st$)-(abs(strt)-1)
            For p=startPos to 1 Step -1
                If Mid$(st$,p,Len(fnd$))=fnd$ Then result=p:Exit
            Next p
        Else
            For p=strt To Len(st$)
                If Mid$(st$,p,Len(fnd$))=fnd$ Then result=p:Exit
            Next p
        End If
    End If
End Function(result)
```

Any one or two of the following examples will work fine, but if you try a third one AOZ will freeze.

```
Print instr(inst$, " ", 1) ' result 5
Print instr(inst$, " ", -1) ' result 35
Print instr(inst$, " ", 6) ' result 10
Print instr(inst$, " ", -8) ' result 29
Print instr(inst$, " ", 40) ' result 0
Print instr(inst$, " ", -40) ' result 0
```

### History

#### #1 - 04/18/2020 06:15 PM - Brian Flanagan

- Subject changed from *Function works inconsistently.* to *Function problem. The third time any user-defined function is called, AOZ will lock up.*

NOTE: Further testing indicates that the 3rd time ANY user defined function is called, it will lock up AOZ.

Here's another example:

```
/*
    Leap Year
    Parameter: y 4-digit year
    Returns: Leap Year (1=leap, 0=not) ' Yes, there's a reason for 0 or 1
*/
Function "LeapYear", y
    ly=0
    If y=4*Int(y/4) Then ly=1
    If y=100*Int(y/100) Then ly=0
    If y=400*Int(y/400) Then ly=1
End Function(ly)
```

Again, any 1 or 2 of these works, but as soon as the third one is called, AOZ fails.

```
Print LeapYear(1980) ' should return 1
Print LeapYear(1983) ' should return 0
Print LeapYear(2020) ' should return 1
Print LeapYear(2021) ' should return 0
```

It could also be a combination of more than one user defined function.

**#2 - 06/27/2020 03:28 AM - Brian Flanagan**

- *Affected version changed from 0.9.8.1 to 0.9.9.2*

Re-tested in 0.9.9.2. Still fails.

Changed affected version from 0.9.8.1 to 0.9.9.2 accordingly.

**#3 - 07/03/2020 11:23 PM - Brian Flanagan**

- *Affected version changed from 0.9.9.2 to 0.9.9.3*

Re-tested in 0.9.9.3. Problem still exists.

**#4 - 08/28/2020 12:03 PM - Brian Flanagan**

- *Assignee set to Francois Lionet*

**#5 - 08/29/2020 08:17 AM - Francois Lionet**

- *Status changed from New to Resolved*

- *Target version set to 0.9.9.4-r2*

Fixed! The transpiler was completely lost at one stage...

**#6 - 10/04/2020 12:29 PM - Brian Flanagan**

- *Status changed from Resolved to Closed*

Tested again in Beta RC3. Working!