

SPLIT subroutine

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' Subroutine to split a delimited string of characters into individual
' substrings and return those substrings in a string array.
' As you can't pass arrays in MM Basic, the returned array will always
' be named splitup$()
' The program automatically calculates the number of substrings in the
string
' and the size of the largest substring, then scales the array
accordingly.
' The number of substrings is returned in array position 0 and the maximum
' length of each substring is returned in array position 1
Print "Testing code for split$ subroutine"
Print
Print "Test string is 'abc,defg,hijkl,+123.678,-5' with comma delimiter"
a$="abc,defg,hijkl,+123.678,-5"
Print "Usage is  SPLIT$ arg$,delimiter$"
split$ a$,","
Print "The splitup array that is created is a one dimensional array that
is "
Print "the number of substrings in the argument string + 2 in depth, "
Print "each of which equals the largest substring in characters long"
Print "Splitup$(0) has the number of substrings extracted in it"
Print "Splitup$(1) is the maximum string length of any substring"
Print "Splitup$(2) through Splitup$(n) contain the delimited substrings"
Print " of the argument string"
Print
Print "Test run"
Print "First substring of argument string at position 2 is ",splitup$(2)
Print "Second substring of argument string at position 3 is ",splitup$(3)
Print "Third substring of argument string at position 4 is ",splitup$(4)
Print "Fourth substring of argument string at position 5 is ",splitup$(5)
Print "Fifth substring of argument string at position 6 is ",splitup$(6)
' End of test code
' SPLIT subroutine
Sub split$(arg1$,arg2$)
' arg1$ is the string to be split
' arg2$ is the delimiter to split on
Local whole$,delim$
Local numels,maxlen,wholelen,ellen
whole$=arg1$
delim$=arg2$
If Instr(whole$,delim$) <> 0 Then
    numels = 1                ' delimiter found
    maxlen = 1
    Do While Instr(whole$,delim$) <> 0 ' now count up elements

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    ellen = Instr(whole$,delim$)-1    ' and maximum size so we
    If ellen > maxlen Then
        maxlen = ellen                ' can dimension array
    EndIf
    numels = numels + 1
    wholelen = Len(whole$)
    whole$ = Right$(whole$,wholelen-(ellen + 1))
Loop
If Len(whole$) > maxlen Then
    maxlen = Len(whole$)
EndIf
whole$ = arg1$
Erase Splitup$
Dim splitup$(numels+2) length maxlen
splitup$(0) = Str$(numels)
splitup$(1) = Str$(maxlen)
For x = 2 To numels+1
    wholelen = Len(whole$)
    If x = numels+1 Then
        ellen = Len(whole$)
        splitup$(x) = whole$
    Else
        ellen = Instr(whole$,delim$) - 1
        splitup$(x)=Left$(whole$,ellen)
        whole$ = Right$(whole$,wholelen-(ellen+1))
    EndIf
Next x
Else
    Print "Error: No delimiter in string"
EndIf
End Sub
```

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