

## Content of 2008 Scripting Games Sudden Death Event 3.vbs ( Site 1 )

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' This is my Solution for the Scripting Games 2008
' For more Information look at
' http://www.microsoft.com/technet/scriptcenter/funzone/games/games08.msp

Option Explicit

Dim ofso : Set ofso = Createobject("Scripting.FileSystemObject")
Const ForReading = 1
Const ForWriting = 2
Const ForAppending = 8

Call Main()

' -----
Sub Main()

Dim iCount, iCount2
Dim arrPresidents, arrPresidentsCalc(), arrTmpPresidents
Dim strPresident, struChr, strABC, ivowels

arrPresidents = ReadFileToArray("C:\Scripts\presidents.txt")

If IsArray(arrPresidents) then

ReDim arrPresidentsCalc(UBound(arrPresidents), 1)

For iCount = 65 to 90
strABC = strABC & Chr(iCount) & ", "
Next

For iCount = 0 to UBound(arrPresidents)

If IsArray(arrTmpPresidents) then Erase arrTmpPresidents
arrTmpPresidents = Split(arrPresidents(iCount), ", ", -1, 1)

For iCount2 = 0 to UBound(arrTmpPresidents)
arrPresidentsCalc(iCount,iCount2) = arrTmpPresidents(iCount2)
Next

Next

For iCount = 0 to UBound(arrPresidentsCalc)

struChr = struChr & instrCheck("[A-Z]", arrPresidentsCalc(iCount,1) & arrPresidentsCalc(iCount,0))
ivowels = ivowels + instrCount("[a,e,i,o,u]", arrPresidentsCalc(iCount,1) & arrPresidentsCalc(iCount,0))

if Len(strPresident) < Len(arrPresidentsCalc(iCount,1)) then
strPresident = arrPresidentsCalc(iCount,1)
End if
Next

For iCount = 1 to Len(struChr)

strABC = Replace(strABC, Mid(struChr,iCount,1) & ", ", "", 1, -1, 1)

Next

strABC = Left(strABC,Len(strABC)-1)

For iCount = 0 to UBound(arrPresidentsCalc)

if arrPresidentsCalc(iCount,1) = strPresident then
strPresident = arrPresidentsCalc(iCount,1) & " " & arrPresidentsCalc(iCount,0)
Exit For
End if
Next

wscript.echo "Longest first name: " & strPresident
wscript.echo "These letters are not used as Presidential initials:" & vbcrf & strABC
wscript.echo "Total vowels used: " & ivowels

End if

End Sub

' -----
Private Function ReadFileToArray(strFile)

Dim strNextLine, arrstrList
Dim arrLines()
Dim iCount : iCount = 0

If ofso.FileExists(strFile) then

Dim oFile : Set oFile = ofso.OpenTextFile(strFile, ForReading)

Do Until oFile.AtEndOfStream

Redim Preserve arrLines(iCount)
arrLines(iCount) = oFile.ReadLine
iCount = iCount + 1

Loop

oFile.Close

End if

Set oFile = nothing

If IsArray(arrLines) then ReadFileToArray = arrLines

End Function

' -----
Private Function instrCheck(strPattern, strSearch)

Dim oRegEx : Set oRegEx = CreateObject("VBScript.RegExp")
Dim colMatches, strMatch, strRet
oRegEx.Global = True
oRegEx.Pattern = strPattern

Set colMatches = oRegEx.Execute(strSearch)

If colMatches.Count > 0 Then
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For Each strMatch in colMatches
strRet = strRet & strMatch
Next
instrCheck = strRet
Else
instrCheck = ""
End if
```

```
End Function
```

```
' -----
Private Function instrCount(strPattern, strSearch)
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```
Dim oRegex : Set oRegex = CreateObject("VBScript.RegExp")
Dim colMatches, strMatch
oRegex.Global = True
oRegex.IgnoreCase = True
oRegex.Pattern = strPattern
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Set colMatches = oRegex.Execute(strSearch)
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```
If colMatches.Count > 0 Then
instrCount = colMatches.Count
Else
instrCount = 0
End if
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End Function
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