

## Content of 2008 Scripting Games Advanced VBScript Event 5.vbs ( Site 1 )

' 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
```

```
Dim strParameter
Dim ArgArray, ArrayElement
Dim iPwdScore : iPwdScore = 13
```

```
Call GetArguments(ArgArray)
If IsArray(ArgArray) then
```

```
    For Each ArrayElement In ArgArray
        strParameter = strParameter & ArrayElement
    Next
```

```
End if
```

```
if strParameter > "" then Call Main()
```

```
' -----
Sub Main()
```

```
    CheckPWD(strParameter)
```

```
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 CheckPWD(strPWD)
```

```
    Dim arrWords, iCount, iRet, iCount2
    Dim PWD_OK : PWD_OK = true
    Dim iMultiple : iMultiple = false
    Dim uMultiple : uMultiple = false
    Dim bDuplicate : bDuplicate = false
    Dim sDuplicate
    Dim iX_1 : iX_1 = false
    Dim iX_2 : iX_2 = false
    Dim iX_3 : iX_3 = false
    Dim iX_4 : iX_4 = false
    Dim iX_5 : iX_5 = false
```

```
    arrWords = ReadFileToArray("C:\Scripts\wordlist.txt")
```

```
    If IsArray(arrWords) then
```

```
        For iCount = 0 to UBound(arrWords)
```

```
            If arrWords(iCount) = strPWD then
```

```
                iX_1 = true
```

```
            End if
```

```
            If arrWords(iCount) = Left(strPWD, Len(strPWD)-1) then
```

```
                iX_2 = true
```

```
            End if
```

```
            If arrWords(iCount) = Right(strPWD, Len(strPWD)-1) then
```

```
                iX_3 = true
```

```
            End if
```

```
            If Instr(1, strPWD, "0", 1) > 0 then
```

```
                If GetReplacedWord(strPWD, "0", "o") = arrWords(iCount) or _
```

```
                GetReplacedWord(strPWD, "0", "O") = arrWords(iCount) then
```

```
                    iX_4 = true
```

```
                End if
```

```
            End if
```

```
            If Instr(1, strPWD, "1", 1) > 0 then
```

```
                If GetReplacedWord(strPWD, "1", "l") = arrWords(iCount) or _
```

```
                GetReplacedWord(strPWD, "1", "L") = arrWords(iCount) then
```

```
                    iX_5 = true
```

```
                End if
```

```
            End if
```

```
        Next
```

```
    End if
```

```
    If iX_1 = true then
```

```
        wscript.echo "The password is an actual word."
```

```
        iPwdScore = iPwdScore - 1
```

```
    End if
```

## Content of 2008 Scripting Games Advanced VBScript Event 5.vbs ( Site 2 )

```
If iX_2 = true then
wscript.echo "The password minus the last letter is an actual word."
iPwdScore = iPwdScore -1
End if

If iX_3 = true then
wscript.echo "The password minus the first letter is an actual word."
iPwdScore = iPwdScore -1
End if

If iX_4 = true then
wscript.echo _
"The password is an actual word. In the case of substitute 0 (zero) for the letter O."
iPwdScore = iPwdScore -1
End if

If iX_5 = true then
wscript.echo _
"The password is an actual word. In the case of substitute 1 (one) for the letter L."
iPwdScore = iPwdScore -1
End if

If Len(strPWD) < 10 or Len(strPWD) > 20 then
wscript.echo "The password length is less 10 letters or larger 20 letters."
iPwdScore = iPwdScore -1
End if

if instrCheck("[0-9]", strPWD) = false then
wscript.echo "The password does not include a number."
iPwdScore = iPwdScore -1
End if

if instrCheck("[A-Z]", strPWD) = false then
wscript.echo "The password does not include a uppercase letter."
iPwdScore = iPwdScore -1
End if

if instrCheck("[a-z]", strPWD) = false then
wscript.echo "The password does not include a lowercase letter."
iPwdScore = iPwdScore -1
End if

if instrCheck("[^A-Za-z0-9]", strPWD) = false then
wscript.echo "The password does not include a symbol."
iPwdScore = iPwdScore -1
End if

For iCount = 1 to Len(strPWD) -3
if instrCount("[A-Z]", Mid(strPWD,iCount,4)) = 4 then
uMultiple = true
End if

if instrCount("[a-z]", Mid(strPWD,iCount,4)) = 4 then
lMultiple = true
End if
Next

For iCount = 1 to Len(strPWD)
For iCount2 = iCount to Len(strPWD) -1
sDuplicate = Mid(strPWD,iCount,1)
if sDuplicate = Mid(strPWD,iCount2 +1,1) then
bDuplicate = true
Exit For
End if
Next
Next

if lMultiple = true then
wscript.echo "Four consecutive lowercase letters in password."
iPwdScore = iPwdScore -1
End if

if uMultiple = true then
wscript.echo "Four consecutive uppercase letters in password."
iPwdScore = iPwdScore -1
End if

if bDuplicate = true then
wscript.echo "Duplicate letters in password."
iPwdScore = iPwdScore -1
End if

Select Case iPwdScore
Case 0,1,2,3,4,5,6
wscript.echo VbCrLf & "A password score of " & iPwdScore & " indicates a weak password."
Case 7,8,9,10
wscript.echo VbCrLf & "A password score of " & iPwdScore & " indicates a moderately-strong password."
Case 11,12,13
wscript.echo VbCrLf & "A password score of " & iPwdScore & " indicates a strong password."
End Select

End Function
```

## Content of 2008 Scripting Games Advanced VBScript Event 5.vbs ( Site 3 )

```
' -----  
Private Function GetReplacedWord(strPWD,strPrimLetter,strReplaceLetter)  
  
Dim strAlternatePWD  
strAlternatePWD = Replace(strPWD, strPrimLetter, strReplaceLetter, 1, -1, 1)  
GetReplacedWord = strAlternatePWD  
  
End Function  
  
' -----  
Private Function instrCheck(strPattern, strSearch)  
  
Dim oRegEx : Set oRegEx = CreateObject("VBScript.RegExp")  
  
Dim colMatches, strMatch  
oRegEx.Global = True  
oRegEx.Pattern = strPattern  
  
Set colMatches = oRegEx.Execute(strSearch)  
  
If colMatches.Count > 0 Then  
instrCheck = true  
Else  
instrCheck = false  
End if  
  
End Function  
  
' -----  
Private Function instrCount(strPattern, strSearch)  
  
Dim oRegEx : Set oRegEx = CreateObject("VBScript.RegExp")  
  
Dim colMatches, strMatch  
oRegEx.Global = True  
oRegEx.Pattern = strPattern  
  
Set colMatches = oRegEx.Execute(strSearch)  
  
If colMatches.Count > 0 Then  
instrCount = colMatches.Count  
Else  
instrCount = 0  
End if  
  
End Function  
  
' -----  
Private Function GetArguments(SourceArray)  
  
Dim iCount : iCount = 0  
Dim Argument  
  
If wscript.arguments.count > 0 then  
ReDim ArgArray(wscript.arguments.count -1)  
  
For Each Argument in wscript.arguments  
ArgArray(iCount) = Argument  
iCount = iCount +1  
Next  
  
iCount = Null  
GetArguments = ArgArray  
  
End if  
  
End Function
```