

frmRandom - 1

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' Name: rand_gen           Written: J. Vaccariello  
' Copyright 1997 Creative Data Solutions, Inc.  
'  
' Purpose:  To generate random numbers based on 4  
'           seeds to be used in Jury Selection Process  
'           for State Of Florida.  
-----
```

Option Base 1

```
Private Sub Command1_Click()  
    gen_random  
End Sub
```

```
Private Sub Command2_Click()  
    End  
End Sub
```

```
Public Sub gen_random()
```

```
Dim seed1, seed2, seed3, seed4 As Integer  
Dim total_req As Integer
```

```
Dim uni_table(98) As Double  
Dim i_ind As Double  
Dim j_ind As Double  
Dim c As Double  
Dim cd As Double  
Dim cm As Double  
Dim ln1 As Integer  
Dim ln2 As Integer  
Dim cntr1 As Integer  
Dim cntr2 As Integer  
Dim somemore As Double  
Dim some As Double  
Dim c_val As Double  
Dim const_1 As Double  
Dim const_2 As Double  
Dim const_3 As Double  
Dim const_4 As Double  
Dim const_5 As Double  
Dim const_6 As Double  
Dim const_7 As Double  
Dim div_result As Double  
Dim remainder1 As Double  
Dim remainder2 As Double
```

```
Let seed1 = seed(0)  
Let seed2 = seed(1)  
Let seed3 = seed(2)  
Let seed4 = seed(3)  
Let total_req = CInt(txt_total_needed)
```

```
Let const_1 = 53  
Let const_2 = 362436  
Let const_3 = 7654321  
Let const_4 = 16777213  
Let const_5 = 97  
Let const_6 = 33  
Let const_7 = 16777216  
Let c = const_2 / const_7  
Let cd = const_3 / const_7  
Let cm = const_4 / const_7
```

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For cntrl = 1 To 97
  Let some = 0
  Let somemore = 0.5
  For cntr = 1 To 24
    Let div_result = (seed1 * seed2)
    Let remainder1 = div_result Mod 179
    Let div_result = remainder1 * seed3
    Let seed1 = seed2
    Let seed2 = seed3
    Let seed3 = div_result Mod 179
    Let div_result = (53 * seed4) + 1
    Let seed4 = div_result Mod 169
    Let remainder = (seed4 * seed3) Mod 64
    If remainder >= 32 Then
      Let some = some + somemore
    End If
    Let somemore = somemore * 0.5
  Next
  uni_table(cntrl) = some
Next
Let i_ind = const_5
Let j_ind = const_6

Let c_val = const_2

For i = 1 To 20000

  uni = uni_table(i_ind) - uni_table(j_ind)
  If uni < 0 Then
    Let uni = uni + 1
  End If
  Let uni_table(i_ind) = uni
  Let i_ind = i_ind - 1
  If i_ind = 0 Then
    Let i_ind = const_5
  End If

  Let j_ind = j_ind - 1
  If j_ind = 0 Then
    Let j_ind = const_5
  End If
  Let c = c - cd
  If c < 0 Then
    Let c = c + cm
  End If
  Let uni = uni - c
  If uni < 0 Then
    Let uni = uni + 1
  End If

Next
'-----
For i = 1 To total_req
  uni = uni_table(i_ind) - uni_table(j_ind)
  If uni < 0 Then
    Let uni = uni + 1#
  End If
  Let uni_table(i_ind) = uni
  Let i_ind = i_ind - 1
  If i_ind = 0 Then
    Let i_ind = const_5
  End If
  Let j_ind = j_ind - 1
  If j_ind = 0 Then
    Let j_ind = const_5

  End If
  Let c = c - cd

```

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```
If c < 0 Then
  Let c = c + cm
End If
Let uni = uni - c
If uni < 0 Then
  Let uni = uni + 1
End If
Let t = (uni + const_7)
```

```
MsgBox "Number is: " & t
Next
```

End Sub