Sub Démarrage()

'

' démarrage Macro

'

Application.ScreenUpdating = False

ActiveWorkbook.Unprotect

ActiveSheet.Unprotect

Sheets("Simulation").Visible = True

Sheets("Demarrer").Visible = False

Application.DisplayFullScreen = True

ActiveWorkbook.Protect

ActiveSheet.Protect

Application.ScreenUpdating = True

End Sub

Sub Tirage()

'''''''''''''''''

' initialisation'

'''''''''''''''''

ActiveWorkbook.Unprotect

ActiveWindow.DisplayHeadings = False

Application.DisplayFullScreen = True

c = 0 'variable colonne

l = 0 'variable ligne

bl = 0 'nombre de tirage bleu

vt = 0 'nombre de tirage vert

re = 0 'nombre de tirage rose

tige = 1 'numéro du tirage

Dim tableau(20, 21)

Nbl = Range("C10") 'nombre boule bleue

Nvt = Range("C12") 'nombre boule verte

Nre = Range("C14") 'nombre boule rose

'essai = 0 'variable test sortie > nbre de lot

sim = Range("C22") 'nbre de simulation

'control du nombre de boule compris entre 0 et 4 et non vide

'

If Nbl > 4 Or Nbl < 0 Or Nbl = "" Then

reponse = MsgBox("Attention, le nombre de boule bleue est compris entre 0 et 4!", vbOKOnly, "Erreur consigne")

Range("C10").Select

Application.ScreenUpdating = False

ActiveSheet.Unprotect

Sheets("Eval").Visible = True

Sheets("Eval").Select

erreur = Range("I27")

erreur = erreur + 1

Range("I27") = erreur

Sheets("Eval").Visible = False

Sheets("Simulation").Select

ActiveSheet.Protect

Application.ScreenUpdating = False

GoTo 100

End If

If Nvt > 4 Or Nvt < 0 Or Nvt = "" Then

reponse = MsgBox("Attention, le nombre de boule verte est compris entre 0 et 4!", vbOKOnly, "Erreur consigne")

Range("C12").Select

Application.ScreenUpdating = False

ActiveSheet.Unprotect

Sheets("Eval").Visible = True

Sheets("Eval").Select

erreur = Range("I27")

erreur = erreur + 1

Range("I27") = erreur

Sheets("Eval").Visible = False

Sheets("Simulation").Select

ActiveSheet.Protect

Application.ScreenUpdating = False

GoTo 100

End If

If Nre > 4 Or Nre < 0 Or Nre = "" Then

reponse = MsgBox("Attention, le nombre de boule rose est compris entre 0 et 4!", vbOKOnly, "Erreur consigne")

Range("C14").Select

Application.ScreenUpdating = False

ActiveSheet.Unprotect

Sheets("Eval").Visible = True

Sheets("Eval").Select

erreur = Range("I27")

erreur = erreur + 1

Range("I27") = erreur

Sheets("Eval").Visible = False

Sheets("Simulation").Select

ActiveSheet.Protect

Application.ScreenUpdating = False

GoTo 100

End If

'control du nombre de boule

'

ActiveSheet.Unprotect

N = Nbl + Nvt + Nre

If Nbl = 4 And Nvt = 1 And Nre = 2 Then GoTo 10

'tirage valeurs des boules erronées

'

Randomize

For i = 1 To 20

For j = 1 To 21

tableau(i, j) = Int(Rnd() \* N + 1)

Cells(i + 4, j + 4).Select

If tableau(i, j) <= Nbl Then

bl = bl + 1

With Selection.Interior

.ThemeColor = xlThemeColorLight2

.TintAndShade = 0.599993896298105

End With

End If

If tableau(i, j) > Nbl And tableau(i, j) <= Nbl + Nvt Then

vt = vt + 1

With Selection.Interior

.ThemeColor = xlThemeColorAccent3

.TintAndShade = 0.399975585192419

.PatternTintAndShade = 0

End With

End If

If tableau(i, j) > Nbl + Nvt Then

re = re + 1

With Selection.Interior

.ThemeColor = xlThemeColorAccent2

.TintAndShade = 0.599993896298105

End With

End If

'affichage numéro tiré

'Cells(i + 4, j + 4) = tableau(i, j)

'affichage numéro candidat

Cells(i + 4, j + 4) = tige

tige = tige + 1

Next j

Next i

GoTo 50

'tirage valeurs des boules correctes

'

10 Randomize

For i = 1 To 20

For j = 1 To 21

tableau(i, j) = Int(Rnd() \* N + 1)

If i = 3 And j = 10 Then tableau(i, j) = 5

If tableau(i, j) <= Nbl Then bl = bl + 1

If tableau(i, j) > Nbl And tableau(i, j) <= Nbl + Nvt Then vt = vt + 1

If tableau(i, j) > Nbl + Nvt Then re = re + 1

Next j

Next i

'test des tirages inférieurs au nbre de lots

'

If bl > 261 Or vt > 81 Or re > 141 Then

'Blf = Bl

'vtf = vt

'ref = re

bl = 0

vt = 0

re = 0

tige = 1

'essai = 2

GoTo 10

End If

For i = 1 To 20

For j = 1 To 21

Cells(i + 4, j + 4).Select

If tableau(i, j) <= Nbl Then

With Selection.Interior

.ThemeColor = xlThemeColorLight2

.TintAndShade = 0.599993896298105

End With

End If

If tableau(i, j) > Nbl And tableau(i, j) <= Nbl + Nvt Then

With Selection.Interior

.ThemeColor = xlThemeColorAccent3

.TintAndShade = 0.399975585192419

.PatternTintAndShade = 0

End With

End If

If tableau(i, j) > Nbl + Nvt Then

With Selection.Interior

.ThemeColor = xlThemeColorAccent2

.TintAndShade = 0.599993896298105

End With

End If

'affichage numéro tiré

'Cells(i + 4, j + 4) = tableau(i, j)

'affichage numéro candidat

Cells(i + 4, j + 4) = tige

tige = tige + 1

Next j

Next i

'affichage du résultat

'

50 sim = sim + 1

Range("K26") = bl

Range("K27") = vt

Range("K28") = re

Range("C22") = sim

'Test valeurs supérieures au nombre de lot

'Range("K30") = essai

'Range("L30") = Blf

'Range("L31") = vtf

'Range("L32") = ref

'feuille Eval

'

Application.ScreenUpdating = False

Sheets("Eval").Visible = True

Sheets("Eval").Select

ActiveSheet.Unprotect

If sim >= 29 Then

l = 11

c = 28

End If

Cells(5 + l, sim + 2 - c).Select

With Selection.Interior

.Pattern = xlSolid

.PatternColorIndex = xlAutomatic

.ThemeColor = xlThemeColorLight2

.TintAndShade = 0.599993896298105

.PatternTintAndShade = 0

End With

Cells(5 + l, sim + 2 - c) = Nbl

Cells(6 + l, sim + 2 - c).Select

With Selection.Interior

.Pattern = xlSolid

.PatternColorIndex = xlAutomatic

.ThemeColor = xlThemeColorAccent3

.TintAndShade = 0.399975585192419

.PatternTintAndShade = 0

End With

Cells(6 + l, sim + 2 - c) = Nvt

Cells(7 + l, sim + 2 - c).Select

With Selection.Interior

.Pattern = xlSolid

.PatternColorIndex = xlAutomatic

.ThemeColor = xlThemeColorAccent2

.TintAndShade = 0.599993896298105

.PatternTintAndShade = 0

End With

Cells(7 + l, sim + 2 - c) = Nre

Cells(9 + l, sim + 2 - c).Select

With Selection.Interior

.Pattern = xlSolid

.PatternColorIndex = xlAutomatic

.ThemeColor = xlThemeColorLight2

.TintAndShade = 0.599993896298105

.PatternTintAndShade = 0

End With

Cells(9 + l, sim + 2 - c) = bl

Cells(10 + l, sim + 2 - c).Select

With Selection.Interior

.Pattern = xlSolid

.PatternColorIndex = xlAutomatic

.ThemeColor = xlThemeColorAccent3

.TintAndShade = 0.399975585192419

.PatternTintAndShade = 0

End With

Cells(10 + l, sim + 2 - c) = vt

Cells(11 + l, sim + 2 - c).Select

With Selection.Interior

.Pattern = xlSolid

.PatternColorIndex = xlAutomatic

.ThemeColor = xlThemeColorAccent2

.TintAndShade = 0.599993896298105

.PatternTintAndShade = 0

End With

Cells(11 + l, sim + 2 - c) = re

If bl <= 261 And vt <= 81 Then

If re <= 141 Then Cells(12 + l, sim + 2 - c) = "OK"

End If

If Nbl = 4 And Nvt = 1 Then

If Nre = 2 Then Cells(13 + l, sim + 2 - c) = "OK"

End If

ActiveSheet.Protect

Sheets("Eval").Visible = False

Sheets("Simulation").Select

Range("C10").Select

Application.ScreenUpdating = True

ActiveSheet.Protect

ActiveWorkbook.Protect

100 End Sub

Sub finsim()

ActiveWorkbook.Unprotect

ActiveSheet.Unprotect

Application.DisplayFullScreen = False

Application.ScreenUpdating = True

Sheets("Eval").Visible = True

ActiveWorkbook.Protect

ActiveSheet.Protect

End Sub