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