

1712480-周雅南-计算机会计期末作业说明

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注:

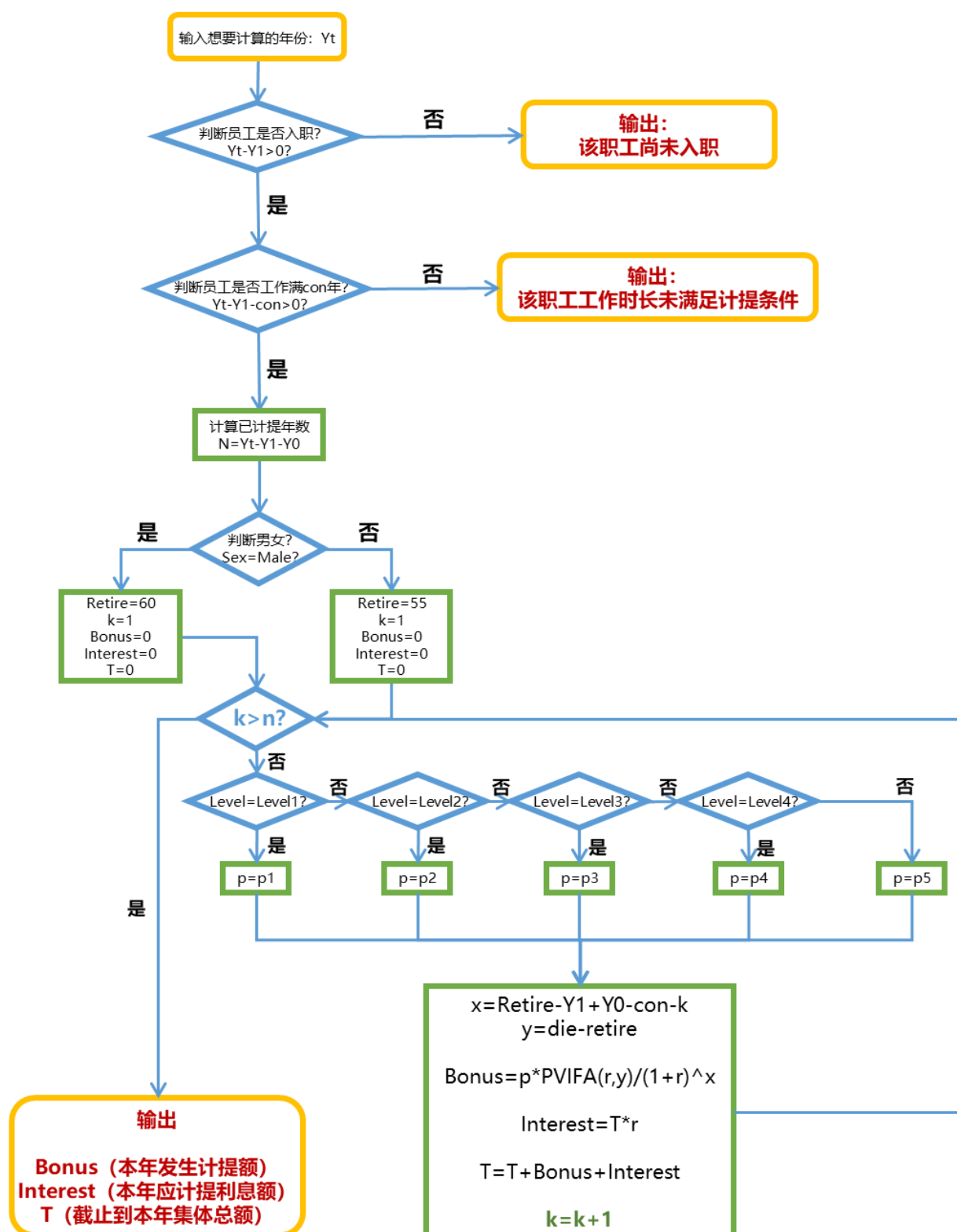
本次作业另附讲解视频, 里面展示了该程序的 excel 操作过程, 便于老师对程序的快速了解, 望老师可以观看一下该视频, 谢谢老师!

我设置的设定收益计划规则是当员工工作满 x 年后才开始对其实施设定收益计划 (如 $x=3$, 则从工作第 4 年开始才是设定受益计划的第一年), 视频中的 x 是 10 年, 可能有些大了不太实际, 可以在 rules 里对条件进行调整, 改成 0/1/2/3/4.....都可以, 程序会自动识别。

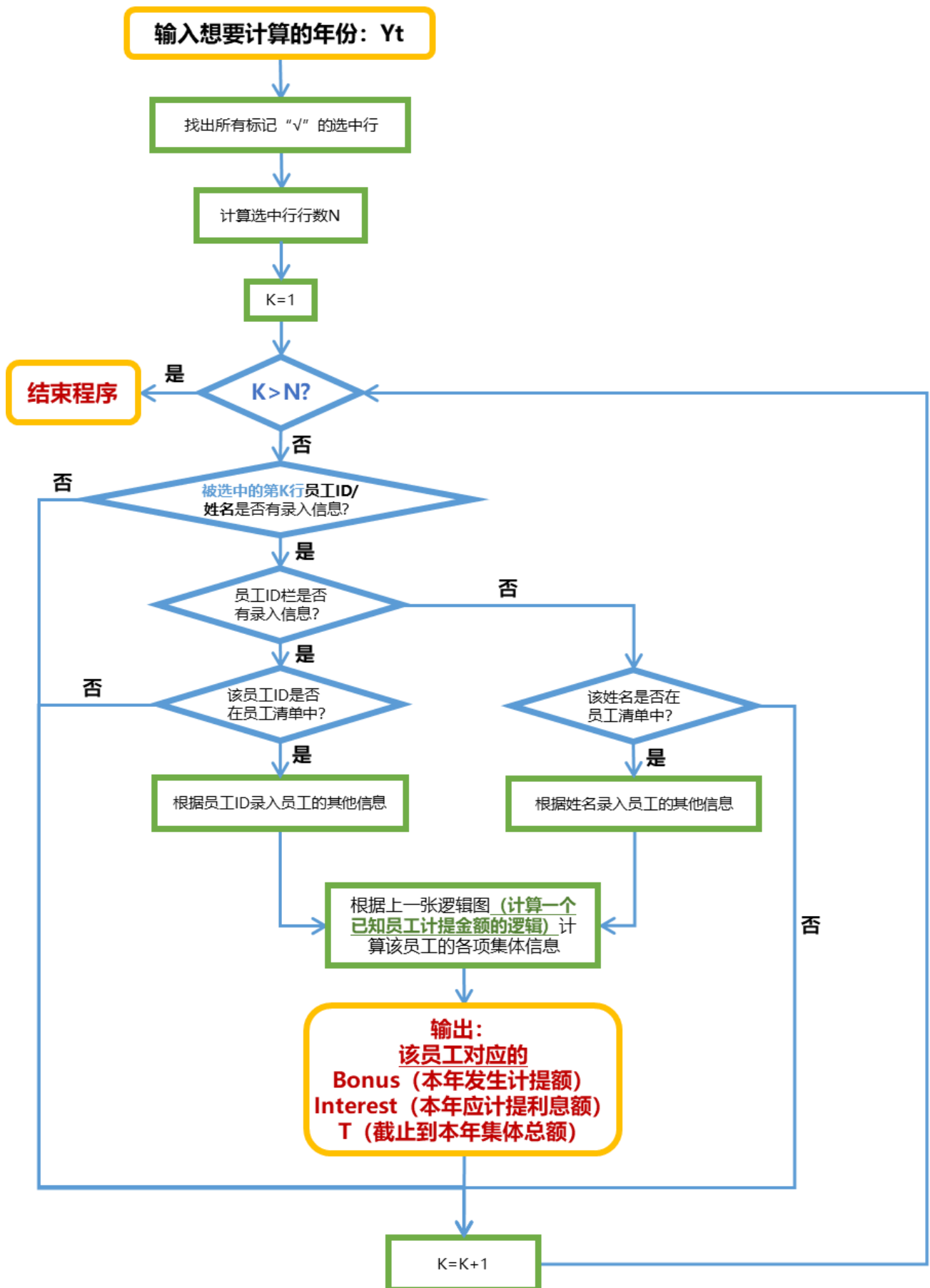
一. 逻辑图展示

1. 逻辑图 1：计算一个已知员工计提金额的逻辑

Y0=出生年份, Y1=入职年份, Level=员工等级, con=收益计划须满足的条件工作年数, die=死亡年龄, retire=退休年龄, Sex=性别, p1/p2/p3/p4/p5=各等级员工对应的退休年金数额, Yt=想要计算的年份, n=已计提年数



2. 逻辑图 2：计算多个员工计提金额的逻辑



二. 代码展示

1. 表单: “DefinedBenefitPlan(只可以查单人)” 控件代码

(1) “计算” 按钮 (窗体控件):

```
Sub definedBenefitPlans()
```

```
Level = Range("C8").Value
```

```
r = Sheets("rules").Range("D3").Value
```

```
m = Application.InputBox("Please enter the YEAR you want to compute: ", 3)
```

```
If m = False Then
```

```
Exit Sub
```

```
End If
```

```
Range("c11") = m
```

```
worktime = Range("c11").Value - Range("c10").Value
```

```
p1 = Sheets("rules").Range("d4").Value
```

```
p2 = Sheets("rules").Range("d5").Value
```

```
p3 = Sheets("rules").Range("d6").Value
```

```
p4 = Sheets("rules").Range("d7").Value
```

```
p5 = Sheets("rules").Range("d8").Value
```

```
con = Sheets("rules").Range("d9").Value
```

```
die = Range("c9").Value
```

```
If worktime < 0 Then
```

```
K = MsgBox("This clerk HAS NOT BEEN IN our company by " & Range("c11").Value, vbOKCancel)
```

```
If K = vbCancel Then
```

```
Exit Sub
```

```
End If
```

```
Range("c12") = "-"
```

```
Range("c13") = "-"
```

```
Range("c14") = "-"
```

```
Else
```

```
If worktime < con Then
```

```
I = MsgBox("The length of employment of this clerk DOES NOT MEET the requirement.", vbOKCancel)
```

```
If I = vbCancel Then
```

```
Exit Sub
```

```
End If
```

```
Range("c12") = "-"
```

```
Range("c13") = "-"
```

```
Range("c14") = "-"
```

```
Else
```

```
n = Range("c11").Value - Range("c10").Value - con
```

```
If n = 0 Then
```

```
l = MsgBox("The length of employment of this clerk DOES NOT MEET the requirement.", vbOKCancel)
```

```
If l = vbCancel Then
```

```
Exit Sub
```

```
End If
```

```
Exit Sub
```

```
End If
```

```
t = 0
```

```
interest = 0
```

```
bonus1 = 0
```

```
If Range("c7").Value = "Male" Then
```

```
retire = 60
```

```
For i = 1 To n
```

```
If Level = "Level1" Then
```

```
bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p1, 0) / (r + 1) ^ (retire - Range("c10").Value + Range("c6").Value - con - i)
```

```
interest = t * r
```

```
t = t + interest + bonus1
```

```
Elseif Level = "Level2" Then
```

```
bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p2, 0) / (r + 1) ^ (retire - Range("c10").Value + Range("c6").Value - con - i)
```

```
interest = t * r
```

```
t = t + interest + bonus1
```

```
Elseif Level = "Level3" Then
```

```
bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p3, 0) / (r + 1) ^ (retire - Range("c10").Value + Range("c6").Value - con - i)
```

```
interest = t * r
```

```
t = t + interest + bonus1
```

```
Elseif Level = "Level4" Then
```

```
bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p4, 0) / (r + 1) ^ (retire - Range("c10").Value + Range("c6").Value - con - i)
```

```
interest = t * r
```

```
t = t + interest + bonus1
```

```
Else
```

```
bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p5, 0) / (r + 1) ^ (retire - Range("c10").Value + Range("c6").Value - con - i)
```

```
interest = t * r
```

```
t = t + interest + bonus1
```

```
End If
```

```
Next i
```

```
S = MsgBox("The amount of BONUS FOR THIS YEAR is " & Format(bonus1, "#.##"), vbOKCancel)
```

```
If S = vbCancel Then
```

```
Exit Sub
```

```
End If
```

```
p = MsgBox("The amount of INTEREST for this year is " & Format(interest, "#.##"), vbOKCancel)
```

```
If p = vbCancel Then
```

```
Exit Sub
```

```
End If
```

```
q = MsgBox("The TOTAL AMOUNT OF BONUS is " & Format(t, "#.##"), vbOKCancel)
```

```
If q = vbCancel Then
```

```
Exit Sub
```

```
End If
```

```
Range("c12") = Val(Format(bonus1, "#.##"))
```

```
Range("c13") = Val(Format(interest, "#.##"))
```

```
Range("c14") = Val(Format(t, "#.##"))
```

```
Else
```

```
For j = 1 To n
```

```
retire = 55
```

```
If Level = "Level1" Then
```

```
bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p1, 0) / (r + 1) ^ (retire - Range("c10").Value + Range("c6").Value - con - j)
```

```
interest = t * r
```

```
t = t + interest + bonus1
```

```
Elseif Level = "Level2" Then
```

```
bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p2, 0) / (r + 1) ^ (retire - Range("c10").Value +
```

```
Range("c6").Value = con - j)
    interest = t * r
    t = t + interest + bonus1

    Elself Level = "Level3" Then
        bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p3, 0) / (r + 1) ^ (retire - Range("c10").Value +
Range("c6").Value - con - j)
        interest = t * r
        t = t + interest + bonus1

    Elself Level = "Level4" Then
        bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p4, 0) / (r + 1) ^ (retire - Range("c10").Value +
Range("c6").Value - con - j)
        interest = t * r
        t = t + interest + bonus1

    Else
        bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p5, 0) / (r + 1) ^ (retire - Range("c10").Value +
Range("c6").Value - con - j)
        interest = t * r
        t = t + interest + bonus1

    End If
Next j
S = MsgBox("The amount of bonus for this year is " & Format(bonus1, "#.##"), vbOKCancel)
If S = vbCancel Then
    Exit Sub
End If

p = MsgBox("The amount of interest for this year is " & Format(interest, "#.##"), vbOKCancel)
If p = vbCancel Then
    Exit Sub
End If

q = MsgBox("The total amount of bonus is " & Format(t, "#.##"), vbOKCancel)
If q = vbCancel Then
    Exit Sub
End If
Range("c12") = Val(Format(bonus1, "#.##"))
Range("c13") = Val(Format(interest, "#.##"))
Range("c14") = Val(Format(t, "#.##"))
```

```
End If
End If
End If

a = MsgBox("Do you want to display the ACCOUNTING ENTRY? ", vbOKCancel)
If a = vbCancel Then
Range("c15") = "-"
Range("c16") = "-"
Exit Sub
End If

Call entry11
End Sub
```

(2) 上述程序中调用的函数 "entry11()":

```
Public Function entry11()

If Range("c12") = "-" Then
MsgBox ("There is no accounting entry for this clerk this year.")
Range("c15") = "-"
Range("c16") = "-"

Else
bonus1 = Range("c12").Value + Range("c13").Value
K = MsgBox("借：管理费用    " & bonus1, vbOKCancel)
If K = vbCancel Then
Range("c15") = "-"
Range("c16") = "-"
Exit Function
End If

m = MsgBox("贷：应付职工薪酬    " & bonus1, vbOKCancel)
If m = vbCancel Then
Range("c15") = "-"
Range("c16") = "-"
Exit Function
End If

Range("c15") = "借：管理费用    " & bonus1
```



```

Range("c16") = "    贷：应付职工薪酬        " & bonus1
End If

End Function

```

(3) “编制会计分录”按钮（窗体控件）：

```

Sub accountingEntry()
If Range("c12") = "-" Then
    MsgBox ("There is no accounting entry for this clerk this year.")
    Range("c15") = "-"
    Range("c16") = "-"
Else
    bonus1 = Range("c12").Value + Range("c13").Value
    K = MsgBox("借：管理费用    " & bonus1, vbOKCancel)
    If K = vbCancel Then
        Exit Sub
    End If

    m = MsgBox("贷：应付职工薪酬    " & bonus1, vbOKCancel)
    If m = vbCancel Then
        Exit Sub
    End If

    Range("c15") = "借：管理费用        " & bonus1
    Range("c16") = "    贷：应付职工薪酬        " & bonus1
End If
End Sub

```

2. 表单：“DefinedBenefitPlan2(可以查多人)” 控件代码

(1) 表单中双击显示"√"以及全选功能代码：

```

Private Sub Worksheet_BeforeDoubleClick(ByVal Target As Range, Cancel As Boolean)
If Target.Column = 1 Then
    If Not Target.Row = 3 Then
        If Target = "√" Then
            Target = ""
        ElseIf Target = "" Then
            Target = "√"
        End If
    Else

```

```

If Target = "√" Then
    Target = ""
    For i = 1 To 160
        Range(Target.Address).Offset(i, 0) = ""
    Next i
ElseIf Target = "" Then
    Target = "√"
    For i = 1 To 160
        Range(Target.Address).Offset(i, 0) = "√"
    Next i
End If
End If
End If
End Sub

```

(2) “查询”按钮 (ActiveX 控件):

```

Private Sub CommandButton1_Click()
    Dim rng As Range
    Dim SS(160) As Integer

```

```

    r = Sheets("rules").Range("D3").Value
    p1 = Sheets("rules").Range("d4").Value
    p2 = Sheets("rules").Range("d5").Value
    p3 = Sheets("rules").Range("d6").Value
    p4 = Sheets("rules").Range("d7").Value
    p5 = Sheets("rules").Range("d8").Value
    con = Sheets("rules").Range("d9").Value

```

```

    m = Application.InputBox("Please enter the YEAR you want to compute: ", 3)
    If m = False Then
        Exit Sub
    End If

```

```

With Worksheets("DefinedBenefitPlan2(可以查多人)").Range("a3:a164")

```

```

    Set c = .Find("√", LookIn:=xlValues)

```

```

    If Not c Is Nothing Then

```

```

        firstAddress = c.Address

```

```

        u = 1

```

```

        Do

```

```

            If Not Application.WorksheetFunction.And(c.Offset(0, 1).Value = "", c.Offset(0, 2).Value = "") Then

```

```
        SS(u) = c.Row - 3
        u = u + 1
    End If
    Set c = .FindNext(c)
    endAddress = c.Address
    Loop While Not endAddress = firstAddress
End If
If c Is Nothing Then
    MsgBox ("NONE of the clerks are selected! Please SELECT the clerks you want to compute!")
    Exit Sub
End If
End With

lengthSS = Application.Count(SS)
K = 1
For i = 1 To lengthSS - 1
    If Not SS(i) = 0 Then
        K = K + 1
    End If
Next i

For y = 1 To K - 1
    Set rng = Range("b3").Offset(SS(y), 0).Resize(1, 2)
    If rng.Cells(1, 1).Value = "" Then
        With Sheets("员工信息").Range("b2:b158")
            Set f = .Find(rng.Cells(1, 2), LookIn:=xlValues)
            If f Is Nothing Then
                MsgBox (rng.Cells(1, 2).Value & " is NOT in the member list! Please CHECK YOUR SPELLING!")
                GoTo line1
            End If
            rng.Cells(1, 1) = f.Offset(0, -1).Value
        End With
    Else
        With Sheets("员工信息").Range("a2:a158")
            Set f = .Find(rng.Cells(1, 1), LookIn:=xlValues)
            If f Is Nothing Then
                MsgBox (rng.Cells(1, 1).Value & " is NOT in the member list! Please CHECK YOUR SPELLING!")
                GoTo line1
            End If
            rng.Cells(1, 2) = f.Offset(0, 1).Value
        End With
    End If
End With
```

End If

Range("d3").Offset(SS(y), 0) = m

Range("e3").Offset(SS(y), 0) = Application.WorksheetFunction.VLookup(rng.Cells(1, 1).Value, Sheets("员工信息").Range("a2:g158"), 3, False)

Range("f3").Offset(SS(y), 0) = Application.WorksheetFunction.VLookup(rng.Cells(1, 1).Value, Sheets("员工信息").Range("a2:g158"), 4, False)

Range("g3").Offset(SS(y), 0) = Application.WorksheetFunction.VLookup(rng.Cells(1, 1).Value, Sheets("员工信息").Range("a2:g158"), 5, False)

Range("h3").Offset(SS(y), 0) = Application.WorksheetFunction.VLookup(rng.Cells(1, 1).Value, Sheets("员工信息").Range("a2:g158"), 6, False)

Range("i3").Offset(SS(y), 0) = Application.WorksheetFunction.VLookup(rng.Cells(1, 1).Value, Sheets("员工信息").Range("a2:g158"), 7, False)

Level = Range("g3").Offset(SS(y), 0).Value

worktime = Range("d3").Offset(SS(y), 0).Value - Range("i3").Offset(SS(y), 0).Value

die = Range("h3").Offset(SS(y), 0).Value

If worktime < 0 Then

Range("j3").Offset(SS(y), 0) = "-"

Range("k3").Offset(SS(y), 0) = "-"

Range("l3").Offset(SS(y), 0) = "-"

End If

If worktime < con Then

Range("j3").Offset(SS(y), 0) = "-"

Range("k3").Offset(SS(y), 0) = "-"

Range("l3").Offset(SS(y), 0) = "-"

End If

n = m - Range("i3").Offset(SS(y), 0).Value - con

If n = 0 Then

Range("j3").Offset(SS(y), 0) = "-"

Range("k3").Offset(SS(y), 0) = "-"

Range("l3").Offset(SS(y), 0) = "-"

End If

t = 0

interest = 0

bonus1 = 0

If Range("f3").Offset(SS(y), 0).Value = "Male" Then

```

retire = 60
For o = 1 To n
  If Level = "Level1" Then
    bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p1) / (r + 1) ^ (retire -
Range("i3").Offset(SS(y), 0).Value + Range("e3").Offset(SS(y), 0).Value - con - o)
    interest = t * r
    t = t + interest + bonus1

  Elself Level = "Level2" Then
    bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p2) / (r + 1) ^ (retire -
Range("i3").Offset(SS(y), 0).Value + Range("e3").Offset(SS(y), 0).Value - con - o)
    interest = t * r
    t = t + interest + bonus1

  Elself Level = "Level3" Then
    bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p3) / (r + 1) ^ (retire -
Range("i3").Offset(SS(y), 0).Value + Range("e3").Offset(SS(y), 0).Value - con - o)
    interest = t * r
    t = t + interest + bonus1

  Elself Level = "Level4" Then
    bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p4) / (r + 1) ^ (retire -
Range("i3").Offset(SS(y), 0).Value + Range("e3").Offset(SS(y), 0).Value - con - o)
    interest = t * r
    t = t + interest + bonus1

  Else
    bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p5) / (r + 1) ^ (retire -
Range("i3").Offset(SS(y), 0).Value + Range("e3").Offset(SS(y), 0).Value - con - o)
    interest = t * r
    t = t + interest + bonus1
  End If
Next o

Range("j3").Offset(SS(y), 0) = Val(Format(bonus1, "#.##"))
Range("k3").Offset(SS(y), 0) = Val(Format(interest, "#.##"))
Range("l3").Offset(SS(y), 0) = Val(Format(t, "#.##"))

Else
  For j = 1 To n
    retire = 55

```

```

If Level = "Level1" Then
    bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p1) / (r + 1) ^ (retire -
Range("i3").Offset(SS(y), 0).Value + Range("e3").Offset(SS(y), 0).Value - con - j)
    interest = t * r
    t = t + interest + bonus1

Elseif Level = "Level2" Then
    bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p2) / (r + 1) ^ (retire -
Range("i3").Offset(SS(y), 0).Value + Range("e3").Offset(SS(y), 0).Value - con - j)
    interest = t * r
    t = t + interest + bonus1

Elseif Level = "Level3" Then
    bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p3) / (r + 1) ^ (retire -
Range("i3").Offset(SS(y), 0).Value + Range("e3").Offset(SS(y), 0).Value - con - j)
    interest = t * r
    t = t + interest + bonus1

Elseif Level = "Level4" Then
    bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p4) / (r + 1) ^ (retire -
Range("i3").Offset(SS(y), 0).Value + Range("e3").Offset(SS(y), 0).Value - con - j)
    interest = t * r
    t = t + interest + bonus1

Else
    bonus1 = Application.WorksheetFunction.PV(r, die - retire, -p5) / (r + 1) ^ (retire -
Range("i3").Offset(SS(y), 0).Value + Range("e3").Offset(SS(y), 0).Value - con - j)
    interest = t * r
    t = t + interest + bonus1
End If
Next j

Range("j3").Offset(SS(y), 0) = Val(Format(bonus1, "#.##"))
Range("k3").Offset(SS(y), 0) = Val(Format(interest, "#.##"))
Range("l3").Offset(SS(y), 0) = Val(Format(t, "#.##"))
End If
line1:
Next y

a = MsgBox("Do you want to display the ACCOUNTING ENTRY? ", vbOKCancel)
If a = vbCancel Then

```

```
Exit Sub
End If
```

```
For Z = 1 To K - 1
t = SS(Z)
Call entry2(t)
Next Z
```

```
MsgBox ("FINISHED!")
```

```
End Sub
```

(3) “清空”按钮 (ActiveX 控件):

```
Private Sub CommandButton2_Click()
Range("b4:n20000").ClearContents
End Sub
```

(4) “编制分录”按钮 (ActiveX 控件):

```
Private Sub 编制会计分录_Click()
Dim rng As Range
Dim SS(160) As Integer

With Worksheets("DefinedBenefitPlan2(可以查多人)").Range("a3:a164")
Set c = .Find("√", LookIn:=xlValues)
If Not c Is Nothing Then
firstAddress = c.Address
u = 1
Do
If Not Application.WorksheetFunction.And(c.Offset(0, 1).Value = "", c.Offset(0, 2).Value = "") Then
SS(u) = c.Row - 3
u = u + 1
End If
Set c = .FindNext(c)
endAddress = c.Address
Loop While Not endAddress = firstAddress
End If
If c Is Nothing Then
MsgBox ("NONE of the clerks are selected! Please SELECT the clerks you want to compute!")
Exit Sub
```

```
End If
End With

lengthSS = Application.Count(SS)
K = 1
For i = 1 To lengthSS - 1
    If Not SS(i) = 0 Then
        K = K + 1
    End If
Next i

For Z = 1 To K - 1
    t = SS(Z)
    Call entry2(t)
Next Z

End Sub
```

(5) 上述过程中用到的函数 entry2(t):

```
Public Function entry2(t)
If Range("j3").Offset(t, 0).Value = "-" Then
    Range("m3").Offset(t, 0) = "-"
    Range("n3").Offset(t, 0) = "-"
Else
    bonus1 = Range("j3").Offset(t, 0).Value + Range("k3").Offset(t, 0).Value
    Range("m3").Offset(t, 0) = "借：管理费用      " & bonus1
    Range("n3").Offset(t, 0) = "贷：应付职工薪酬      " & bonus1
End If
End Function
```