Function PruebaEvaluada\_BIIA1a(a As Integer, b As Integer) As Integer

 'APARTADO A

 Dim n As Integer

 Dim i As Integer

 Dim LB As Integer

 Dim pj() As Integer

 n = 8

 ReDim pj(n - 1) As Integer

 pj(0) = 11

 pj(1) = 73

 pj(2) = 43

 pj(3) = 83

 pj(4) = 17

 pj(5) = 7 \* a

 pj(6) = 5 \* b

 pj(7) = 37

 Dim Sec1() As Integer

 Dim Sec2() As Integer

 Dim Sec\_SPT() As Integer

 Dim pj\_aux() As Integer

 ReDim Sec1(n - 1) As Integer

 ReDim Sec2(n - 1) As Integer

 ReDim Sec\_SPT(n - 1) As Integer

 ReDim pj\_aux(n - 1) As Integer

 For i = 0 To UBound(Sec1)

 Sec1(i) = i

 Sec2(i) = n - i - 1

 Next i

 Call copy\_vector(pj, pj\_aux)

 Call sort\_vector(pj\_aux, Sec\_SPT, "A")

 Call print\_vector(Sec\_SPT)

 Call print\_vector(Sec1)

 Call print\_vector(Sec2)

 Call print\_vector(pj)

 PruebaEvaluada\_BIIA1a = SM\_SumCj(Sec\_SPT, pj)

 Debug.Print "Sol.:" & PruebaEvaluada\_BIIA1a

 'Debug.Print SM\_SumCj(Sec2, pj)

End Function

Function PruebaEvaluada\_BIIA1b(a As Integer, b As Integer) As Integer

 'APARTADO A

 Dim n As Integer

 Dim i As Integer

 Dim LB As Integer

 Dim rj() As Integer

 Dim pj() As Integer

 n = 8

 ReDim pj(n - 1) As Integer

 ReDim rj(n - 1) As Integer

 pj(0) = 11

 pj(1) = 73

 pj(2) = 43

 pj(3) = 83

 pj(4) = 17

 pj(5) = 7 \* a

 pj(6) = 5 \* b

 pj(7) = 37

 Call copy\_vector(pj, rj)

 Dim Sec1() As Integer

 Dim Sec2() As Integer

 Dim Sec\_SPT() As Integer

 Dim pj\_aux() As Integer

 ReDim Sec1(n - 1) As Integer

 ReDim Sec2(n - 1) As Integer

 ReDim Sec\_SPT(n - 1) As Integer

 ReDim pj\_aux(n - 1) As Integer

 For i = 0 To UBound(Sec1)

 Sec1(i) = i

 Sec2(i) = n - i - 1

 Next i

 Call copy\_vector(pj, pj\_aux)

 Call sort\_vector(pj\_aux, Sec\_SPT, "A")

 Call print\_vector(Sec\_SPT)

 Call print\_vector(Sec1)

 Call print\_vector(Sec2)

 Call print\_vector(pj)

 PruebaEvaluada\_BIIA1b = SM\_rj\_SumCj(Sec1, rj, pj)

 Debug.Print "Sol.:" & PruebaEvaluada\_BIIA1b

 'Debug.Print SM\_SumCj(Sec2, pj)

End Function

Function PruebaEvaluada\_BIIA1c(a As Integer, b As Integer) As Integer

 'APARTADO A

 Dim n As Integer

 Dim i As Integer

 Dim LB As Integer

 Dim rj() As Integer

 Dim pj() As Integer

 n = 8

 ReDim pj(n - 1) As Integer

 ReDim dj(n - 1) As Integer

 pj(0) = 11

 pj(1) = 73

 pj(2) = 43

 pj(3) = 83

 pj(4) = 17

 pj(5) = 7 \* a

 pj(6) = 5 \* b

 pj(7) = 37

 For i = 0 To UBound(pj)

 dj(i) = 2 \* pj(i)

 Next i

 Dim Sec1() As Integer

 Dim Sec2() As Integer

 Dim Sec\_SPT() As Integer

 Dim pj\_aux() As Integer

 ReDim Sec1(n - 1) As Integer

 ReDim Sec2(n - 1) As Integer

 ReDim Sec\_SPT(n - 1) As Integer

 ReDim pj\_aux(n - 1) As Integer

 For i = 0 To UBound(Sec1)

 Sec1(i) = i

 Sec2(i) = n - i - 1

 Next i

 Call copy\_vector(pj, pj\_aux)

 Call sort\_vector(pj\_aux, Sec\_SPT, "A")

 Call print\_vector(Sec\_SPT)

 Call print\_vector(Sec1)

 Call print\_vector(Sec2)

 Call print\_vector(pj)

 PruebaEvaluada\_BIIA1c = P2\_SumTj\_1sec(Sec2, dj, pj)

 Debug.Print "Sol.:" & PruebaEvaluada\_BIIA1c

End Function

Function SM\_SumCj(Sec() As Integer, pj() As Integer) As Integer

 Dim sumCj, i As Integer

 Dim Cj() As Integer

 ReDim Cj(UBound(Sec)) As Integer

 Cj(0) = pj(Sec(0))

 sumCj = Cj(0)

 For i = 1 To UBound(Sec)

 Cj(i) = Cj(i - 1) + pj(Sec(i))

 sumCj = sumCj + Cj(i)

 Next i

 SM\_SumCj = sumCj

End Function

Function SM\_rj\_SumCj(Sec() As Integer, rj() As Integer, pj() As Integer) As Integer

 Dim sumCj As Integer

 Dim i As Integer

 Dim Cj() As Integer

 ReDim Cj(UBound(Sec)) As Integer

 Cj(0) = rj(Sec(0)) + pj(Sec(0))

 sumCj = Cj(0)

 For i = 1 To UBound(Sec)

 If Cj(i - 1) > rj(Sec(i)) Then

 Cj(i) = Cj(i - 1) + pj(Sec(i))

 Else

 Cj(i) = rj(Sec(i)) + pj(Sec(i))

 End If

 sumCj = sumCj + Cj(i)

 Next i

 SM\_rj\_SumCj = sumCj

End Function

Function P2\_SumTj\_1sec(Sec() As Integer, dj() As Integer, pj() As Integer) As Integer

 Dim sumTj As Integer

 Dim CM1 As Integer

 Dim CM2 As Integer

 Dim i As Integer

 CM1 = 0

 CM2 = 0

 sumTj = 0

 For i = 0 To UBound(Sec)

 If CM1 <= CM2 Then

 CM1 = CM1 + pj(Sec(i))

 If (CM1 > dj(Sec(i))) Then

 sumTj = sumTj + CM1 - dj(Sec(i))

 End If

 Else

 CM2 = CM2 + pj(Sec(i))

 If (CM2 > dj(Sec(i))) Then

 sumTj = sumTj + CM2 - dj(Sec(i))

 End If

 End If

 Debug.Print "Tardanza:" & i & sumTj

 Next i

 P2\_SumTj\_1sec = sumTj

End Function