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