CHAPTER 2

2.1 Two possible versions can be developed:

```
IF x ≥ 10 THEN
  DO
    x = x - 5
    IF x < 50 EXIT
  END DO
ELSE
  IF x < 5 THEN
    x = 5
  ELSE
    x = 7.5
  END IF
ENDIF
```

```
IF x ≥ 10 THEN
  DO
    x = x - 5
    IF x < 50 EXIT
  END DO
ELSEIF x < 5
  x = 5
ELSE
  x = 7.5
ENDIF
```

2.2

```
DO
  i = i + 2
  IF z > 50 EXIT
  x = x * 5
  IF x > 5 THEN
    y = x
  ELSE
    y = 0
  ENDIF
  z = x * y
ENDDO
```

2.3 Students could implement the subprogram in any number of languages. The following VBA program is one example. It should be noted that the availability of complex variables in languages such as Fortran 90 would allow this subroutine to be made even more concise. However, we did not exploit this feature, in order to make the code more compatible with languages that do not support complex variables.

```
Option Explicit

Sub Rootfind()
Dim ier As Integer
Dim a As Double, b As Double, c As Double
Dim r1 As Double, i1 As Double, r2 As Double, i2 As Double
a = 7: b = 6: c = 2
Call Roots(a, b, c, ier, r1, i1, r2, i2)
If ier = 0 Then
  MsgBox "No roots"
ElseIf ier = 1 Then
  MsgBox "single root=" & r1
ElseIf ier = 2 Then
  MsgBox "real roots = " & r1 & ", " & r2
ElseIf ier = 3 Then
  MsgBox "complex roots =" & r1 & "," & i1 & " i" & "; "_
                           & r2 & "," & i2 & " i"
End If
End Sub

Sub Roots(a, b, c, ier, r1, i1, r2, i2)
Dim d As Double
r1 = 0: r2 = 0: i1 = 0: i2 = 0
```

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Antonio J. Conejo,Luis Baringo

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