

Q.A

F, T, F, T, F, T, T, F, F, T

Q.B

c, b, e, a, e, b, f, a, c, e

Q.C

1. Yes, no, no, no, yes (on separate lines)
2. A, sample, line, of (on separate lines, note that the last word, text, is not part of the answer)
3. evian
4. q will always be greater than zero so the loop will never terminate
5. 3, 5, 9, 17 (on separate lines)
6. 15, 12.6
7. 10, 10
8. 5, 3
9. 16, 16, 2
10. -5, 11, 1
11. 4, 6, 6

Q.D

1.

```
Dim indx As Integer
indx = ListBox2.Items.Add(ListBox1.SelectedItem)
```
2.

```
If ListBox1.SelectedIndex >= 0 Then
    btnPressed = MessageBox.Show( _
        "Confirm removal of item ...", _
        "Remove member", MessageBoxButtons.YesNo)
    If btnPressed = Windows.Forms.DialogResult.Yes Then
        ListBox1.Items.Remove(ListBox1.SelectedItem)
    End If
Else
    btnPressed = MessageBox.Show( _
        "First select an item to remove")
End If
```

Q.E

1. Should be descriptive, meaningful for the context
2. Memory cell for ByVal argument contains copy of value of actual argument, memory cell for ByRef argument contains reference to location in memory of the actual argument
3. abstraction/modularisation (helps handle complexity); re-use of code

Q.F

```
lblReward.Text = VbNullString
btnGo.Visible = False
btnStop.Visible = True
Sub
```

```

ByRef face As Color
temp = generateRandom.Next(1,7)
Sub
btnGo.Visible = True
btnStop.Visible = False
Sub
(no parameters)
colourString = vbNullString
Call build(colourString)
lblReward.Text = reportOn(colourString)
Sub
colours = colours & colourOf(grpSlots.Controls(ctrl))
Function
(ByVal sender As Control) As String
Function
Function
(ByVal colours As String) As String
Function
Function
(ByVal s As String) As Integer
Function

```

Q.G

```

Dim base16, digit As String
Dim i, p, base10 As Integer

base16 = txtBase16.Text
base10 = 0
p = base16.Length - 1
For i = 0 To base16.Length - 1
    digit = base16.Substring(i, 1)
    base10 = base10 + DIGITS.IndexOf(digit) * 16 ^ p
    p = p - 1
Next
lblBase10.Text = base10

```

Q.H

```

1.
Private Sub subOne( ByRef x As Integer, ByRef y As Integer)
    Dim temp as Integer
    temp = x
    x = y
    y = temp
End Sub

```

2.3