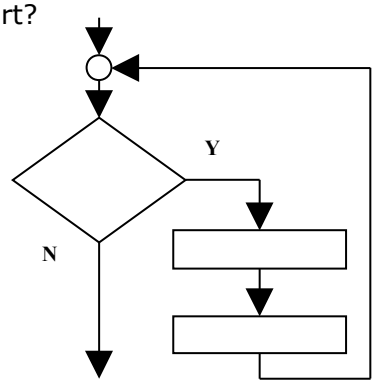
EECS 1530 MicroTest 3 Name:_____

# Part A [10 points]

Circle the LETTER of each correct answer.

1. The flow of control can pass from one instruction to another in _____ ways.
   A. 1
   B. 2
   C. 3
   D. 4 - also acceptable, but only one of the two.
   E. 5

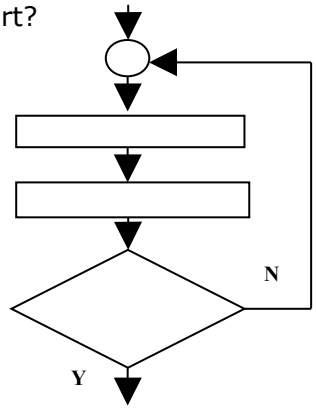
2. Which of the following structures is represented by the flow chart?




   A. Do ... Loop Until <condition>
   B. Do ... Loop While <condition>
   C. Do Until <condition> ... Loop
   D. Do While <condition> ... Loop
   E. For … Next

3. Which of the following best describes this structure?
   A. counted loop
   B. If /Then /Else /End If
   C. If /Then /End If
   D. post-test conditional loop
   E. pre-test conditional loop

4. Which of the following structures is represented by the flow chart?




   A. Do ... Loop Until <condition>
   B. Do ... Loop While <condition>
   C. Do Until <condition> ... Loop
   D. Do While <condition> ... Loop
   E. For … Next

5. Which of the following best describes this structure?
   A. counted loop
   B. If /Then /Else /End If
   C. If /Then /End If
   D. post-test conditional loop
   E. pre-test conditional loop

6. The value of the counter in a `For … Next` never exceeds the limit set for it.
   A. True B. False

7.

8. It is possible that the body of a `Do Until <condition> … Loop` might never be executed.
   A. True B. False

9.

10. It is possible that the body of a `Do … Loop While <condition>` might never be executed.
    A. True B. False

11.

12. The counter in a `For … Next` is changed after the body of the loop has been executed.
    A. True B. False

13. It is possible that the body of a `For … Next` might never be executed.
    A. True B. False

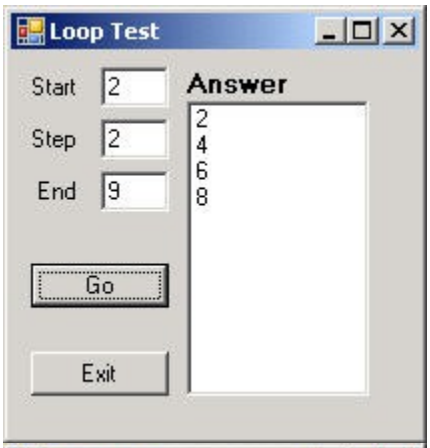
# Part B [6 points]

**Use the following code for the next 6 questions.**

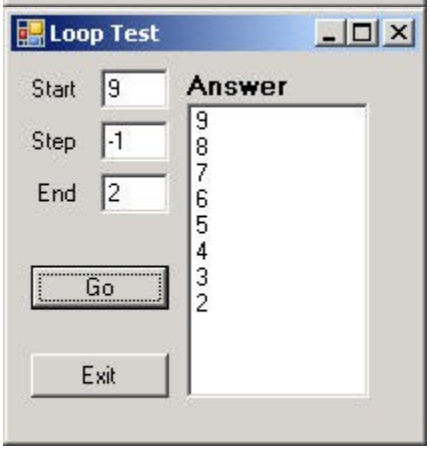
```
Private Sub btnGo_Click(…) Handles btnGo.Click
   Dim begin, delta, finish As Integer
   begin = CInt(txtStart.Text)
   delta = CInt(txtStep.Text)
   finish = CInt(txtEnd.Text)
   lstAnswer.Items.Clear()
   For counter As Integer = begin To finish Step delta
      lstAnswer.Items.Add(counter)
   Next
End Sub
```

For each of the following sets of data, show the output when the Go button is clicked.
If there is no output leave the answer space **blank**.
If there will be an error of some kind write **"error"**.

1




2



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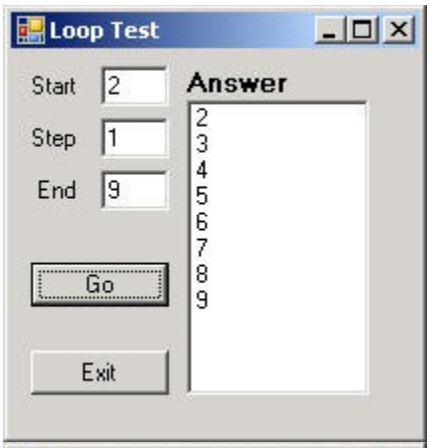
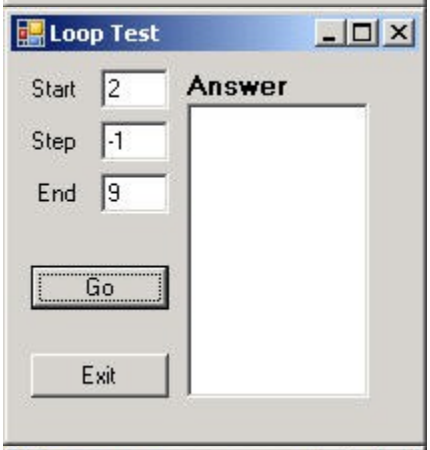
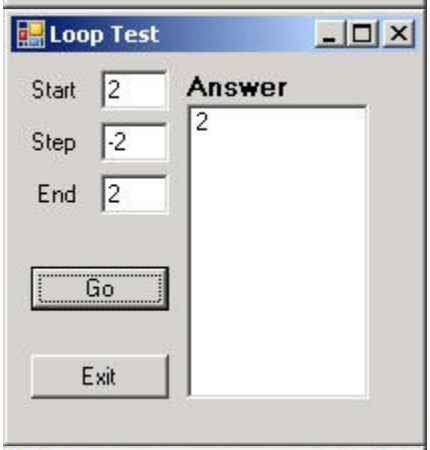
3



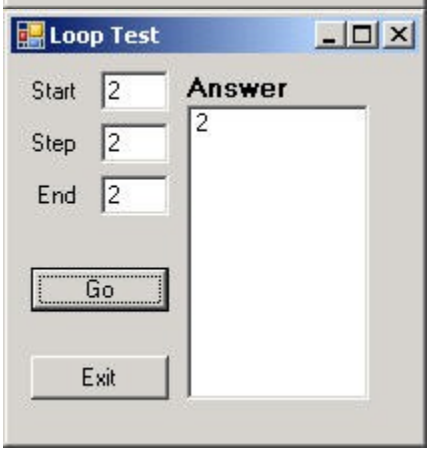

4




5



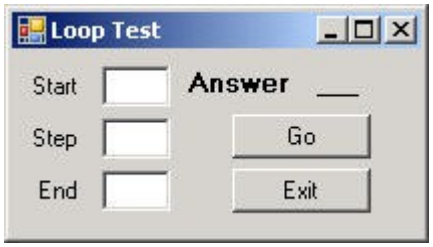

6



# Part C [4 points]

**The code for the Go button has changed**, as has the Form.

```
Private Sub btnGo_Click(…) Handles btnGo.Click
   Dim counter, begin, delta, finish As Integer
   begin = CInt(txtStart.Text)
   delta = CInt(txtStep.Text)
   finish = CInt(txtEnd.Text)
   For counter = begin To finish Step delta
      'do nothing
   Next
   lblAnswer.Text = counter
End Sub
```




For each set of input values, indicate what will appear in `lblAnswer` when the Go button is clicked.

7 Start = 2 Answer: _____ 10
Step = 1
End = 9

8 Start = 2 Answer: _____ 11
Step = 3
End = 9

9 Start = 2 Answer: _____ 2
Step = -2
End = 9

10 Start = 9 Answer: _____ 0
Step = -3
End = 2