MicroTest 4	Name:
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Part A - 10 points

Circle each correct answer.

- 1) A subprogram (function or procedure) is the definition of a set Steps to be executed whenever the subprogram is called.
- 2) When a function is called, the names used for the parameters passed must be the same as the names used in the function definition.
- 3) By default, the parameters of a function are specified as ByVal. True / False
- 4) A function (call) can be used where ever a variable may be used True / False (to the right of an assignment operator) because the function (call) essentially represents a value, the result from the function.
- 5) A **Sub** subprogram may not assign new values to global True / False variables.
- 6) A control object may not be passed as a parameter to a function True / False subprogram.
- 7) The code that implements a function may not call another True / False function or Sub.
- 8) A formal argument that is declared **ByVal** may not be assigned True / False a new value within the subprogram.
- 9) A subprogram that has a ByRef formal argument may not be called with an explicit value as the corresponding actual argument.
 e.g. Call aSub(4.5) is not valid if the subprogram header is Private Sub aSub (ByRef x As Double)
- 10) If a subprogram includes a declaration of a local variable that has True / False the same name as a global variable, then that global variable may have been assigned a new value when the subprogram has finished executing.

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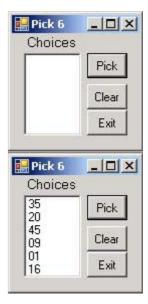
Part B [10 points]

The graphic to the right shows the interface for a VB project that randomly selects lottery numbers. Each of the numbers must be in the range 1 to 49 inclusive, and may occur only once.

Notice that all numbers have exactly 2 digits. Numbers less than 10 are padded with a leading '0'.

You need to create a subprogram that receives a number and returns the same number in 2-digit form.

You should NOT use any of VB's built-in subprograms.



 $\frac{1 \text{ mark}}{\frac{1}{2} \text{ mark}}$

Write the subprogram here:

- ' Declare the subprogram

 Private <u>Function</u> twoDigit(<u>ByVal</u> x <u>As Integer</u>) <u>As String</u>
- ' Declare a variable for the result

Dim temp As String

- 'Cast the input into the result $\frac{\text{temp} = CStr(x)}{\text{temp}}$

End If

Return temp

End Function