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# COMPUTER PROGRAMMING

## ARRAY-1-Exercise

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# Exercise 27 – Intro to Arrays (Form)

The image shows a screenshot of a Windows application window titled "Form1". The window has a standard Windows title bar with minimize, maximize, and close buttons. The main content area of the form contains the following elements:

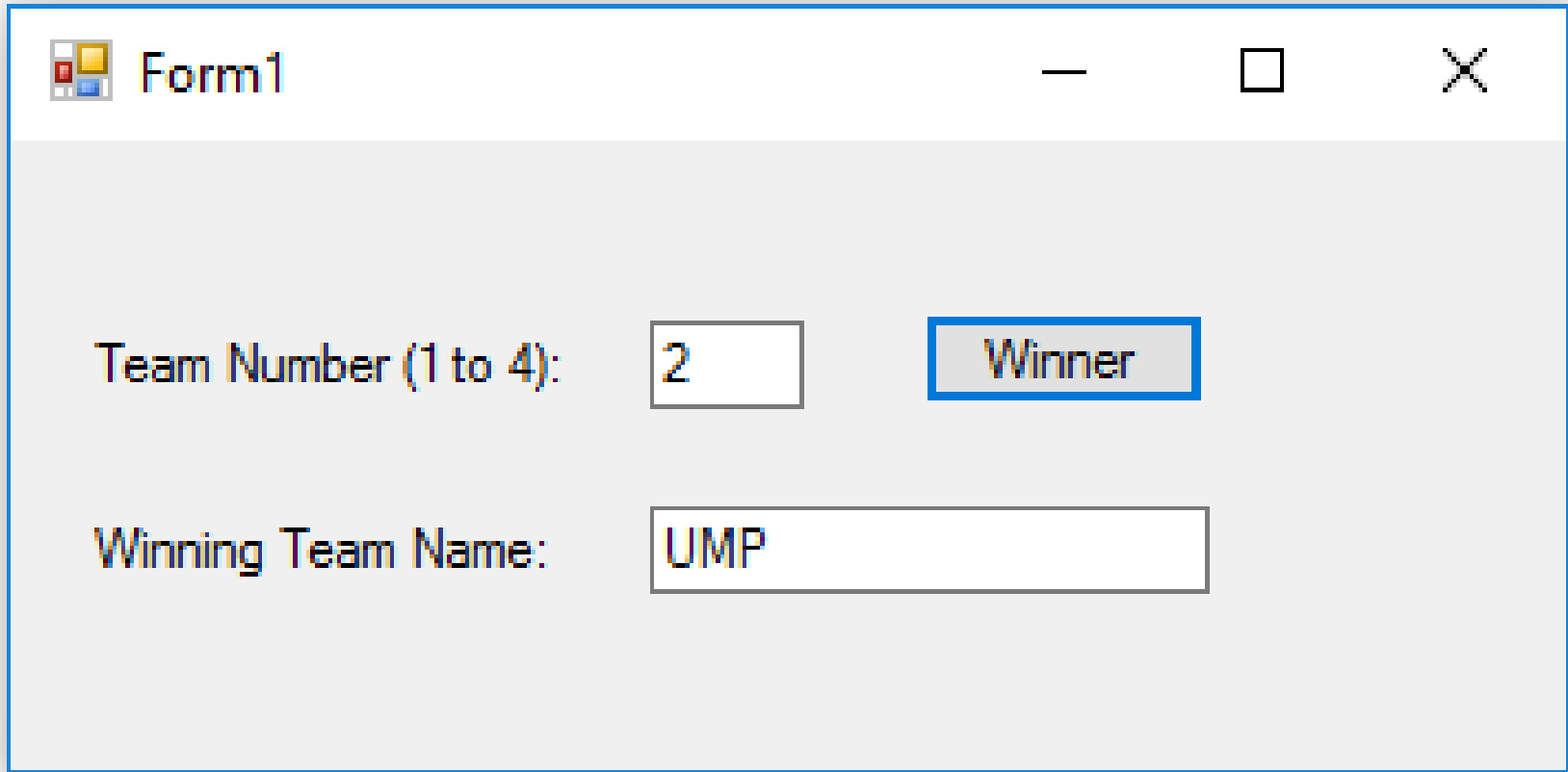
- A label "Team Number (1 to 4):" followed by a small rectangular text input box.
- A button labeled "Winner" to the right of the text input box.
- A label "Winning Team Name:" followed by a larger rectangular text input box.

# Exercise 27 – Intro to Arrays (Code)

```
Private Sub btnWinner_Click(ByVal sender As  
System.Object, ByVal e As System.EventArgs) Handles  
btnWinner.Click
```

```
    Dim UniNames(3) As String  
    Dim n As Integer  
    UniName(0) = "UniMap"  
    UniName(1) = "UMP"  
    UniName(2) = "UTHM"  
    UniName(3) = "UTeM"  
    n = CInt(txtTeam.Text)  
    txtWinner.Text = teamNames(n - 1)  
End Sub
```

# Exercise 27 – Intro to Arrays (Output)



Form1

Team Number (1 to 4):

Winning Team Name:

# Exercise 28 –Arrays-Load Event Procedure (Form)

The image shows a screenshot of a Windows application window titled "Form1". The window has a standard Windows title bar with minimize, maximize, and close buttons. The main content area contains two labels and two input controls. The first label is "Team Number (1 to 4):" followed by a small text box. To the right of this text box is a button labeled "Winner". Below this, the second label is "Winning Team Name:" followed by a larger text box. The form is enclosed in a dashed border, indicating it is a screenshot of a specific window.

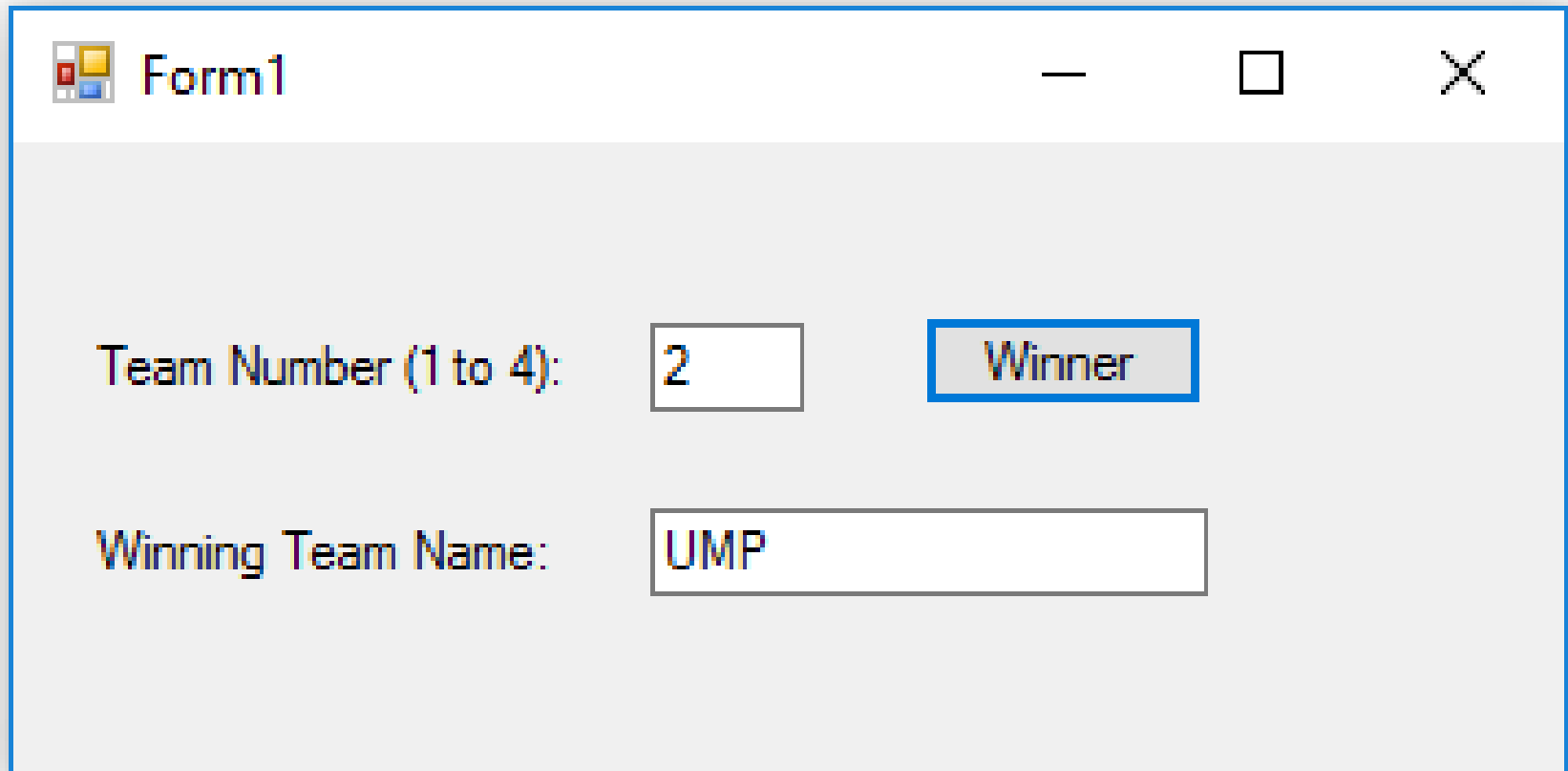
# Exercise 28 –Arrays-Load Event Procedure (Code)

```
Public Class frmArray1
```

```
    Dim UniNames(3) As String  
    Private Sub btnWinner_Click(ByVal sender As System.Object, ByVal e As  
System.EventArgs)  
        Handles btnWinner.Click  
            Dim n As Integer  
            n = CInt(txtTeam.Text)  
            txtWinner.Text = teamNames(n - 1)  
        End Sub
```

```
    Private Sub frmArray1_Load(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles MyBase.Load  
        UniName(0) = "UniMap"  
        UniName(1) = "UMP"  
        UniName(2) = "UTHM"  
        UniName(3) = "UTeM"  
    End Sub  
End Class
```

# Exercise 28 –Arrays-Load Event Procedure (Output)

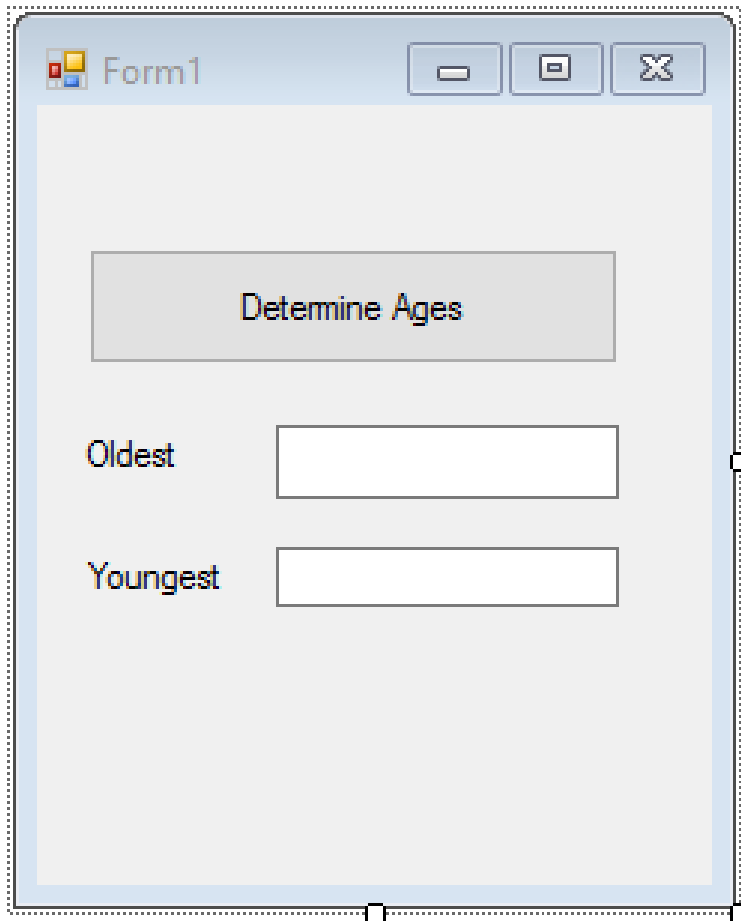


Form1

Team Number (1 to 4):

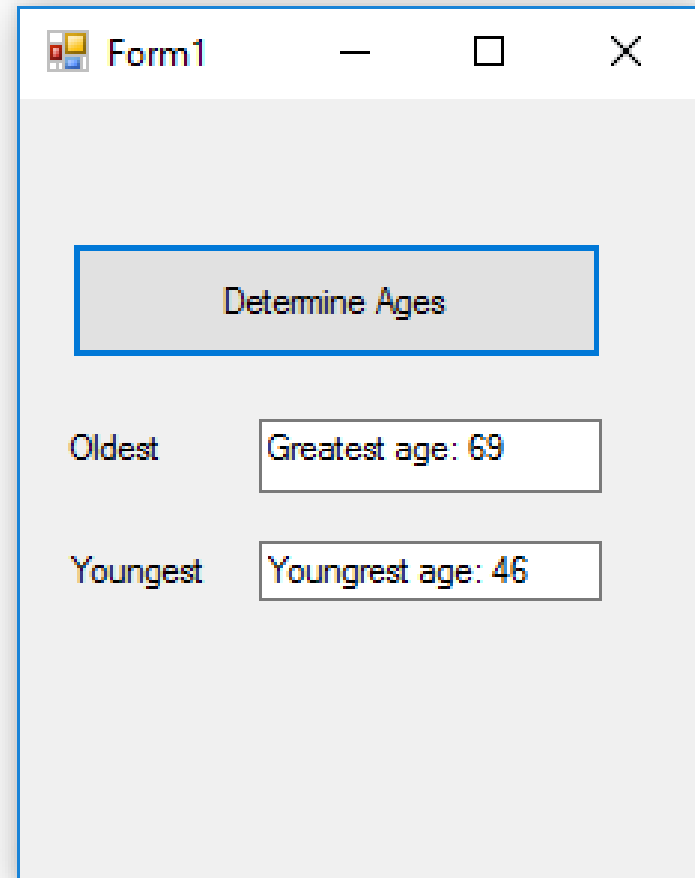
Winning Team Name:

# Exercise 29 –Arrays Methods (Form and Output)



The screenshot shows a Windows form window titled "Form1". At the top, there are standard window controls (minimize, maximize, close). Below the title bar, there is a large grey button labeled "Determine Ages". Underneath the button, there are two text boxes. The first is labeled "Oldest" and the second is labeled "Youngest". Both text boxes are currently empty.

**Form**



The screenshot shows the same Windows form window after execution. The "Determine Ages" button is now highlighted with a blue border. The "Oldest" text box contains the text "Greatest age: 69" and the "Youngest" text box contains the text "Youngrest age: 46".

**Output**



# Exercise 29 –Arrays Methods (Code)

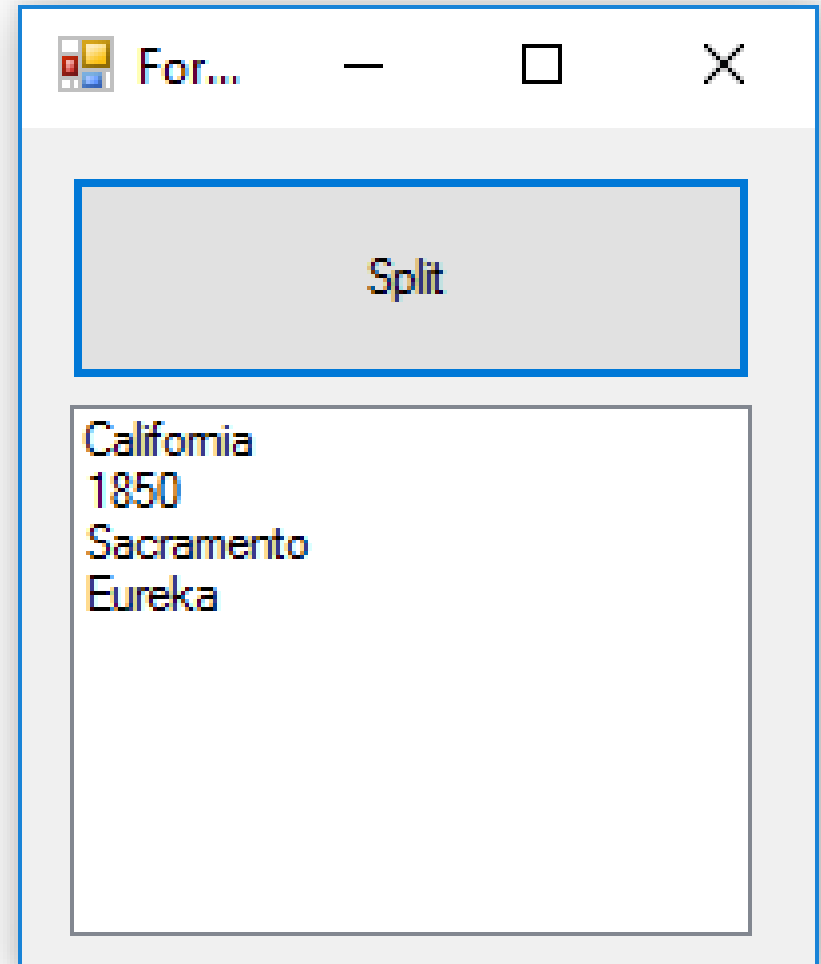
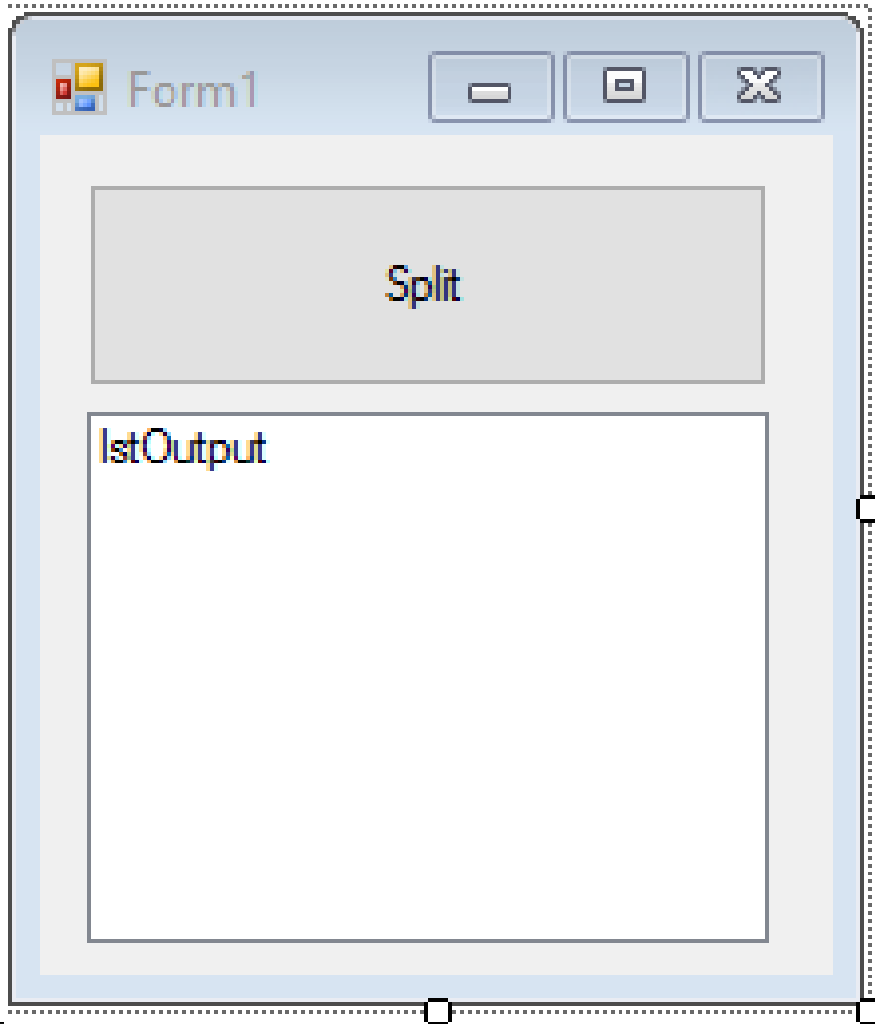
```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
    Dim ages() As Integer = {55, 56, 61, 52, 69, 64, 46, 54, 47}
    'age of the last 9 presidents
    Dim max As Integer = ages(0)
    Dim min As Integer = ages(0)
    For i As Integer = 1 To ages.Count - 1
        If ages(i) > max Then
            max = ages(i)
        ElseIf ages(i) < min Then
            min = ages(i)
        End If
    Next
    txtmax.Text = "Greatest age: " & max
    txtMin.Text = "Youngrest age: " & min
End Sub
```

# Exercise 29a – Copy of Arrays Methods (Code)

Create another button (Button2) in Exercise 29 and add the code as follows:  
Compare the output. You should get similar result

```
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button2.Click
    Dim ages() As Integer = {55, 56, 61, 52, 69, 64, 46, 54, 47}
    'age of the last 9 presidents
    Dim max As Integer = ages(0)
    Dim min As Integer = ages(0)
    For Each age As Integer In ages
        If age > max Then
            max = age
        ElseIf age < min Then
            min = age
        End If
    Next
    txtMax.Text = "Greatest age: " & max
    txtMin.Text = "Youngrest age: " & min
End Sub
```

# Exercise 30 –Arrays-Split Methods (Form and Output)



# Exercise 30 –Arrays-Split Methods (Codes)

```
Private Sub btnSplit_Click(ByVal sender As  
System.Object, ByVal e As System.EventArgs) Handles  
btnSplit.Click
```

```
    Dim stateData(), line As String  
    line = "California,1850,Sacramento,Eureka"  
    stateData = line.Split(",","c")  
    For Each entry As String In stateData  
        lstOutput.Items.Add(entry)  
    Next
```

```
End Sub
```