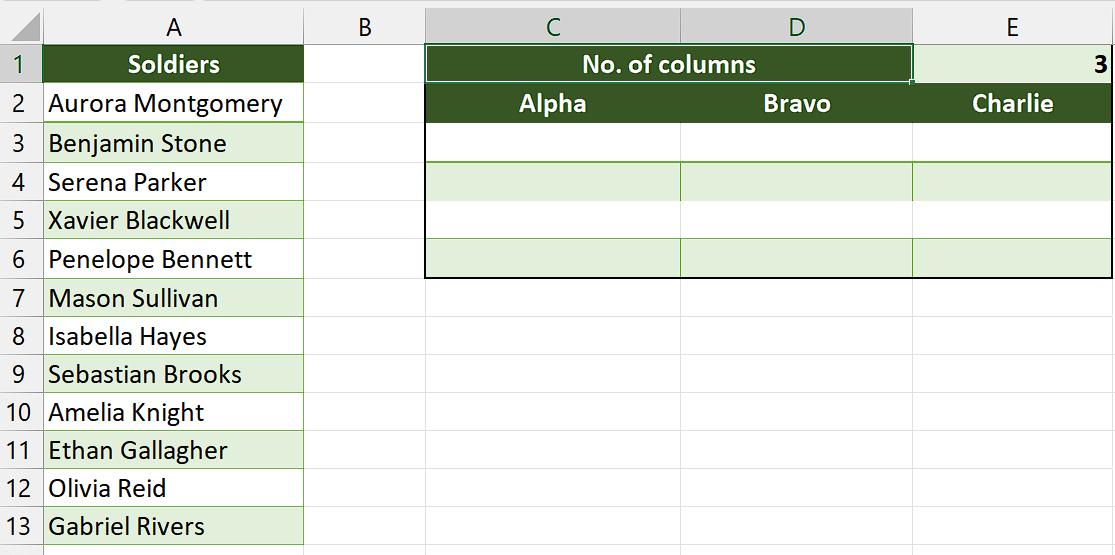
How to divide data into equal intervals in Excel

Splitting data into equal intervals creates standardized groups, enabling easy comparison between different segments. This approach facilitates direct comparisons by dividing the data into equal intervals. By establishing consistent boundaries, the data is organized into easily comparable segments. This standardized division enables efficient analysis and evaluation across various groups, facilitating straightforward comparisons.

Let's consider a dataset comprising the names of soldiers, and our objective is to evenly divide them into three groups: Alpha, Bravo, and Charlie. Using this scenario, we can explore the process of dividing data into equal intervals and learn how to achieve equitable distribution within these groups.



## Method 1 – By using multiple functions

## Understanding Functions and their syntax

INDEX Function:

Syntax is as follows:

=INDEX(array, row\_num, [column\_num])

The INDEX function is used to retrieve a value or reference from a specific cell within an array or range.

**array:** This is the range or array from which you want to retrieve a value.

**row\_num:** It specifies the row number within the array from which you want to retrieve the value.

**column\_num (optional):** It specifies the column number within the array. If omitted, the function returns the entire row specified by row\_num.

**COLUMNS Function:**

Syntax of this function is below:

=COLUMNS(array)

The COLUMNS function is used to count the number of columns within a given array or range.

array: This is the range or array for which you want to count the number of columns.

**ROWS Function:**

Syntax of ROWS Functions is as follows:

=ROWS(array)

The ROWS function is used to count the number of rows within a given array or range.

array: This is the range or array for which you want to count the number of rows.

**IF Function:**

Syntax of IF Function is as follows:

=IF(logical\_test, value\_if\_true, value\_if\_false)

The IF function allows you to perform conditional evaluations and return different values based on the result of a logical test.

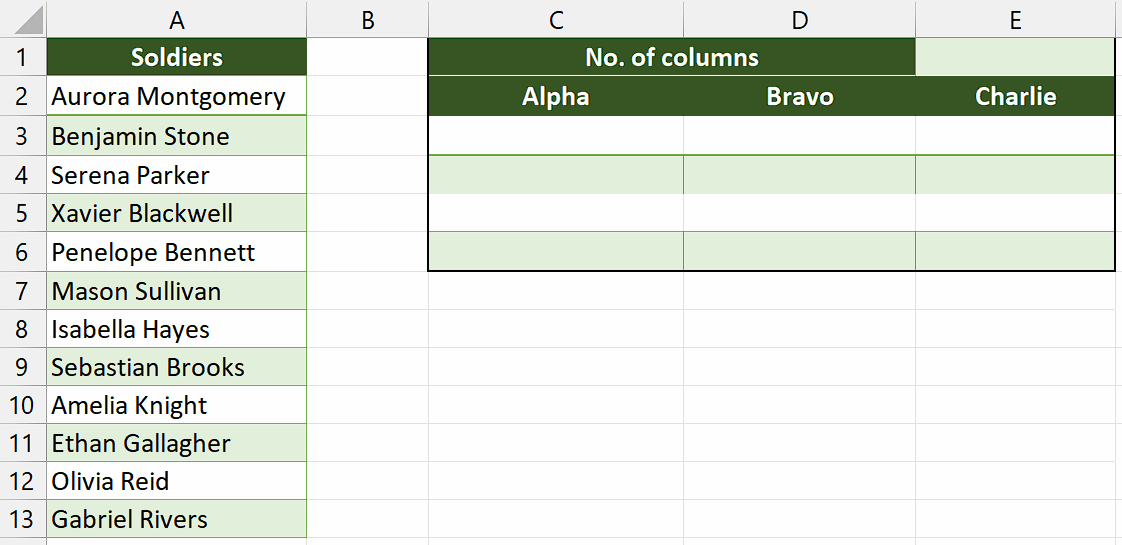
**logical\_test:** This is the condition or logical test that you want to evaluate.

**value\_if\_true:** It specifies the value to be returned if the logical\_test evaluates to TRUE.

**value\_if\_false:** It specifies the value to be returned if the logical\_test evaluates to FALSE.

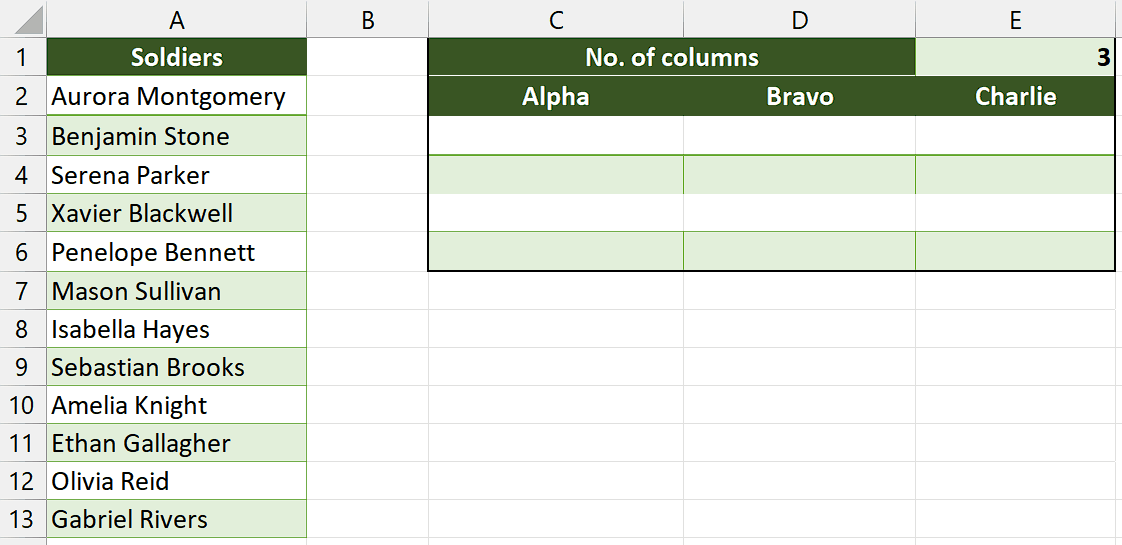
## Step 1 – Write number of columns

* Select any empty cell and write number of cells in that cell.
* For example, we have written “3” in cell “E1”.
* This will assist us in writing formula later in this tutorial.



## Step 2 – Select a cell

* Select any empty cell which we will use as first cell of the groups.
* We will apply the formula containing multiple functions in this cell.



## Step 3 – Write the formula

* Write the following formula in the cell.

=IFERROR(IF($E$1>=COLUMNS($A$2:A2),INDEX($A$2:$A$13,(ROWS($A$2:A2))\*$E$1-($E$1-COLUMNS($A$2:A2))),""),"")

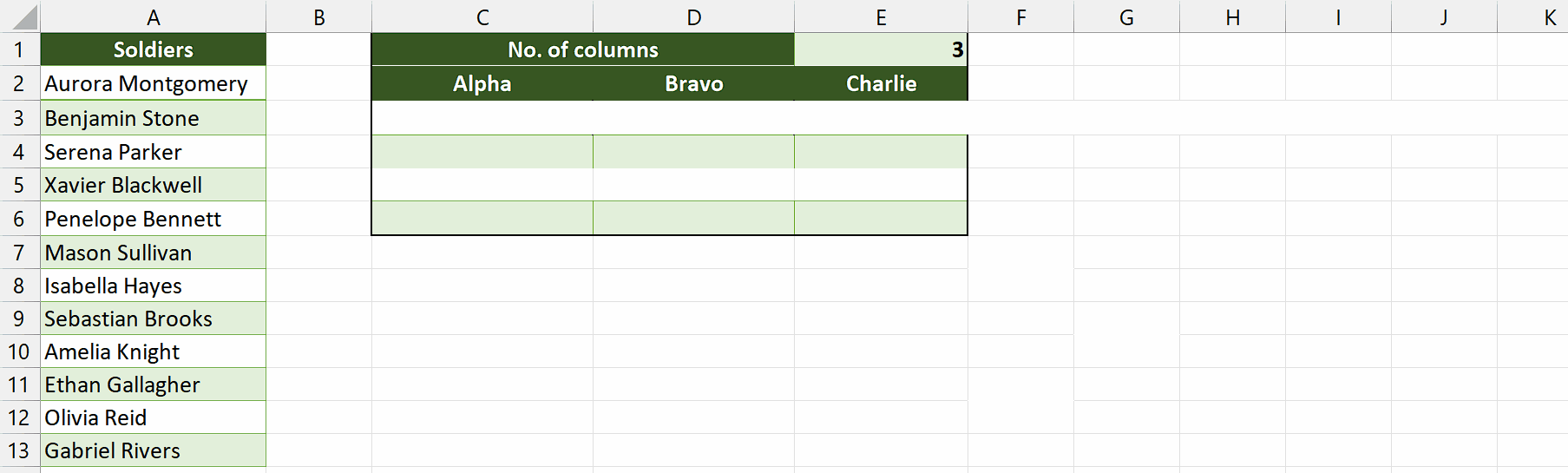
Where,

E1 is the cell containing number of columns in the cell.

A2:A2 is the cell which contains the first person or first cell we want to divide in groups.

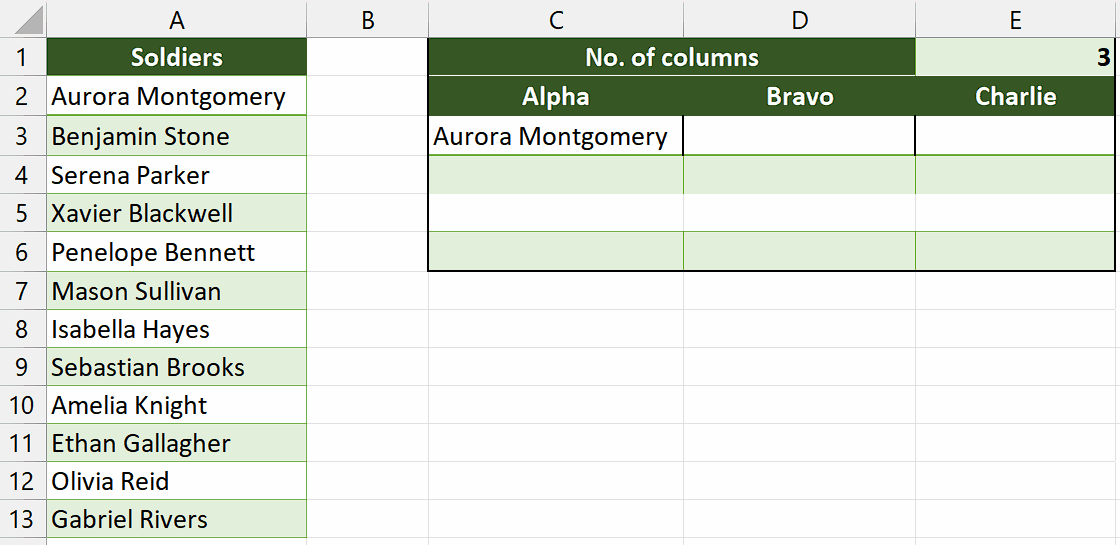
A2:A13 is the range containing all cells that we wish to divide equally.

* After writing the formula, press Enter and result will appear in the cell.



## Step 4 – Divide the data into equal intervals

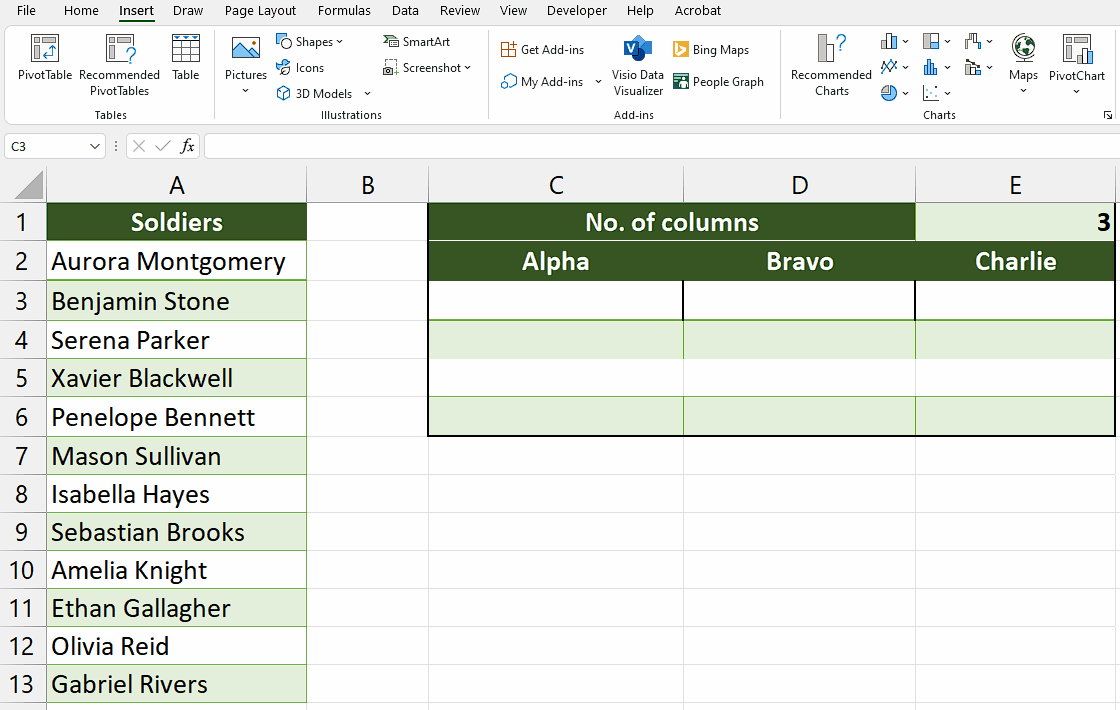
* Now, use the fill handle to drag this data to the rows and columns.
* In this way, we can divide the data into equal intervals.



## Method 2 – By using VBA code

## Step 1 – Add a module

* For adding a module, navigate to **Developer tab.**
* After that, click on the **first option** named **Visual basic.**
* You’ll see a **new window on your screen** and you can **also** **open this window** by using **shortcut key** (**Alt+F11**) as well.
* Then, click on the **Insert tab** in this window and click on the **Module option.**
* Now, a **new module would open.**



## Step 2 – Write the code

* Now, copy and paste the following code in module.

Sub Split\_Equal()

Dim inputRange As Range

Dim outputRange As Range

Dim textSelection As String

Dim outputArray As Variant

Dim groupSize As Long

Dim numRows, numColumns As Long

On Error Resume Next

textSelection = ActiveWindow.RangeSelection.Address

Sel:

' Select the input range

Set inputRange = Nothing

Set inputRange = Application.InputBox("Select input range:", "Range", textSelection, , , , , 8)

If inputRange Is Nothing Then Exit Sub

' Check for multiple selections

If inputRange.Areas.Count > 1 Then

MsgBox "Multiple selections are not supported, select again", vbInformation, "Range"

GoTo Sel

End If

' Check for multiple columns

If inputRange.Columns.Count > 1 Then

MsgBox "Multiple selections are not supported, select again", vbInformation, "Range"

GoTo Sel

End If

' Select the output cell

Set outputRange = Application.InputBox("Select a cell to view the output:", "Start Range", , , , , , 8)

If outputRange Is Nothing Then Exit Sub

' Specify the group size

groupSize = Application.InputBox("Number of cells per column:", "Cell Number", , , , , , 1)

If groupSize < 1 Then

MsgBox "Incorrect input, please enter a valid cell number", vbInformation, "Cell Number"

Exit Sub

End If

' Calculate the number of rows and columns in the output array

numRows = Int(inputRange.Rows.Count / groupSize) + 1

numColumns = groupSize

ReDim outputArray(1 To numColumns, 1 To numRows)

Dim rowIndex As Long

Dim columnIndex As Long

' Split the input data into equal groups and store it in the output array

For rowIndex = 0 To inputRange.Rows.Count - 1

outputArray(1 + (rowIndex Mod numColumns), 1 + Int(rowIndex / numColumns)) = inputRange.Cells(rowIndex + 1)

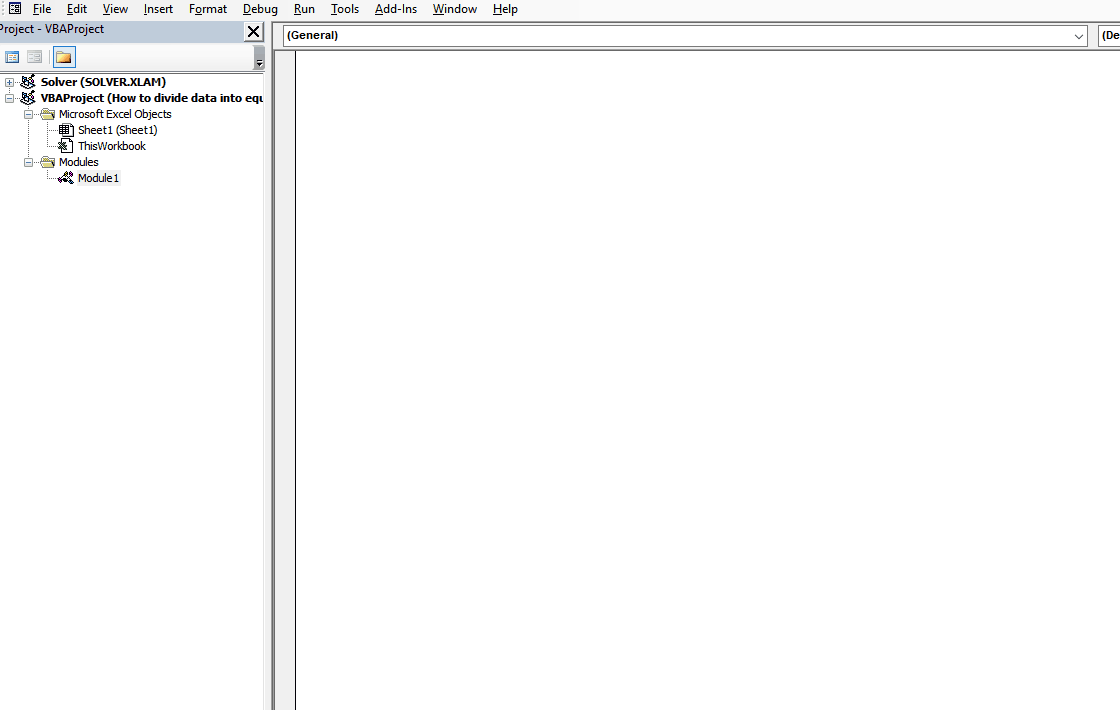
Next

' Output the data to the specified output range

outputRange.Range("A1").Resize(numColumns, numRows) = outputArray

End Sub

* After that, close the VBA Editor.



## Step 3 – Divide the data into equal intervals

* After closing the VBA Editor, press “Alt+F8” and dialogue box would appear on your screen.
* Then, click on the macro named “Split\_Equal” and click on Run.
* Now, input the cell range in the dialogue box that has just appeared.
* As soon as you click on “OK” another dialogue box will open.
* Input the cell address in the provided dialogue box. This cell will serve as the starting point for dividing the data into equal intervals.
* After that another dialogue box would appear.
* In this dialogue box, enter the number of cells that you want to have in each column.
* Then, click on “OK” and your data will be equally divided into the groups.

