# How can I use an IF function with a range of values in Excel?

Authored by

**stats writer**

June 26, 2024

An IF function in Excel allows for conditional logic, where a specific action or calculation is performed based on whether a certain condition is met or not. This function can be used with a range of values in Excel by specifying the condition to be evaluated and the corresponding action to be taken for each value within the range. This allows for efficient and accurate processing of large sets of data, providing a powerful tool for data analysis and decision making. By using an IF function with a range of values, users can easily customize and automate their data analysis processes in Excel.

## Excel: Use an IF Function with Range of Values

## You can use the following formulas to create an IF function with a range of values in Excel:

## Method 1: Create IF Function with Range of Cells

## =IF(COUNTIF(A2:A11,"Pacers")>0, "Exists", "Does Not Exist")

## For this formula, if "Pacers" exists anywhere in the range A2:A11 then the function returns "Exists." Otherwise it returns Does Not Exist."

## Method 2: Create IF Function with Range of Numeric Values

## =IF(((B2>=95)*(B2<=105))=1, "Yes", "No")

## For this formula, if the value in cell B2 is between 95

**and 105, then the function returns "Yes." Otherwise it returns "No."**

**The following examples show how to use each formula in practice with the following dataset in Excel:**

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | **Team** | **Points** | | | | |
| 2 | Mavericks | 99 | | | | |
| 3 | Heat | 94 | | | | |
| 4 | Nets | 104 | | | | |
| 5 | Hornets | 108 | | | | |
| 6 | Kings | 114 | | | | |
| 7 | Warriors | 98 | | | | |
| 8 | Pelicans | 90 | | | | |
| 9 | Knicks | 93 | | | | |
| 10 | Pacers | 95 | | | | |
| 11 | Cavs | 100 | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |



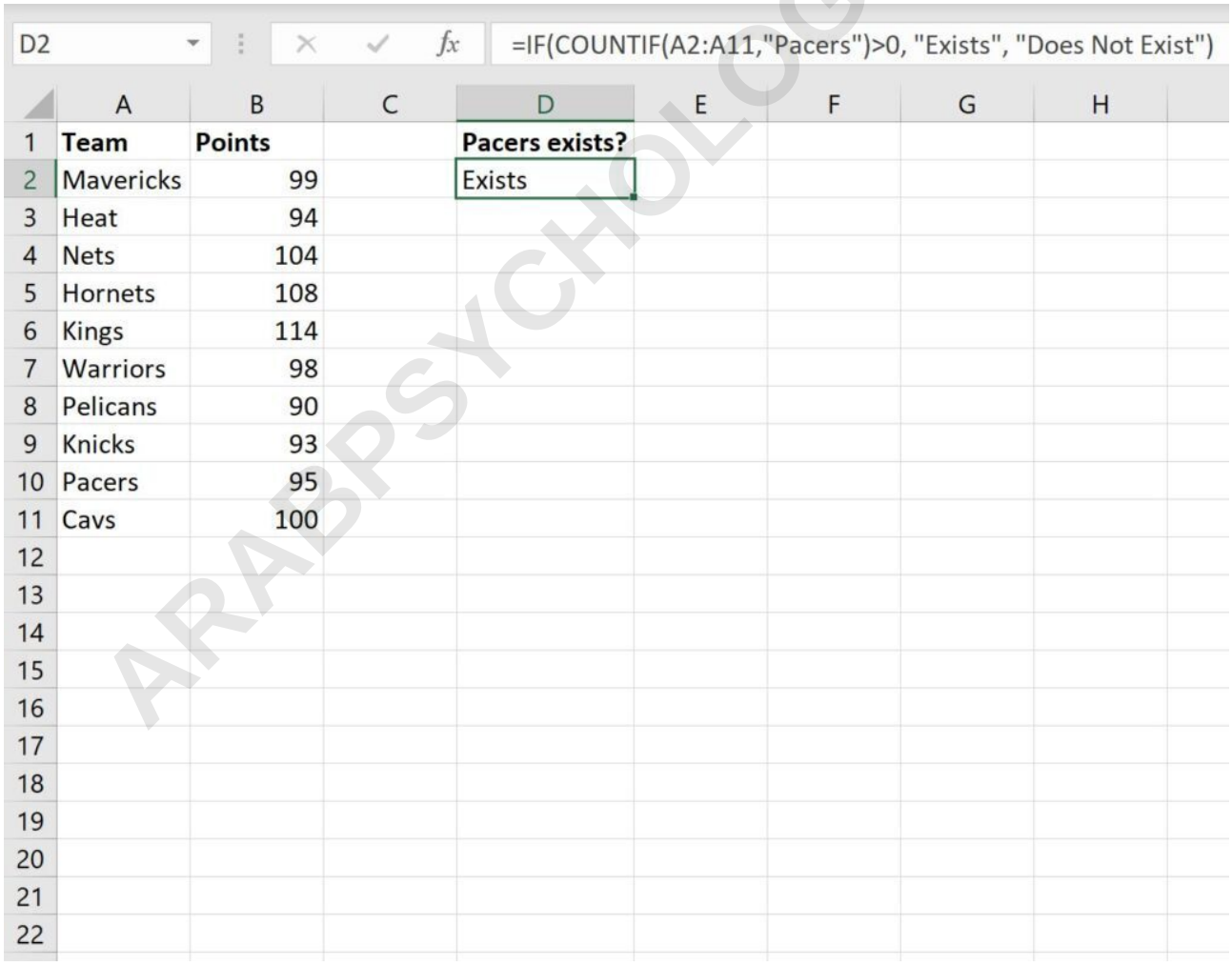
### Example 1: Create IF Function with Range of Cells

**We can type the following formula into cell D2 to return "Exists" if the team name "Pacers" exists in the range**

## A2:A11 or to return Does Not Exist" if the team name does not exist in the range:

## =IF(COUNTIF(A2:A11,"Pacers")>0, "Exists", "Does Not Exist")

## The following screenshot shows how to use this formula in practice:




| | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 1 | **Team** | **Points** | | **Pacers exists?** | | | | |
| 2 | Mavericks | 99 | | Exists | | | | |
| 3 | Heat | 94 | | | | | | |
| 4 | Nets | 104 | | | | | | |
| 5 | Hornets | 108 | | | | | | |
| 6 | Kings | 114 | | | | | | |
| 7 | Warriors | 98 | | | | | | |
| 8 | Pelicans | 90 | | | | | | |
| 9 | Knicks | 93 | | | | | | |
| 10 | Pacers | 95 | | | | | | |
| 11 | Cavs | 100 | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |



## The formula returns "Exists" since the string "Pacers"

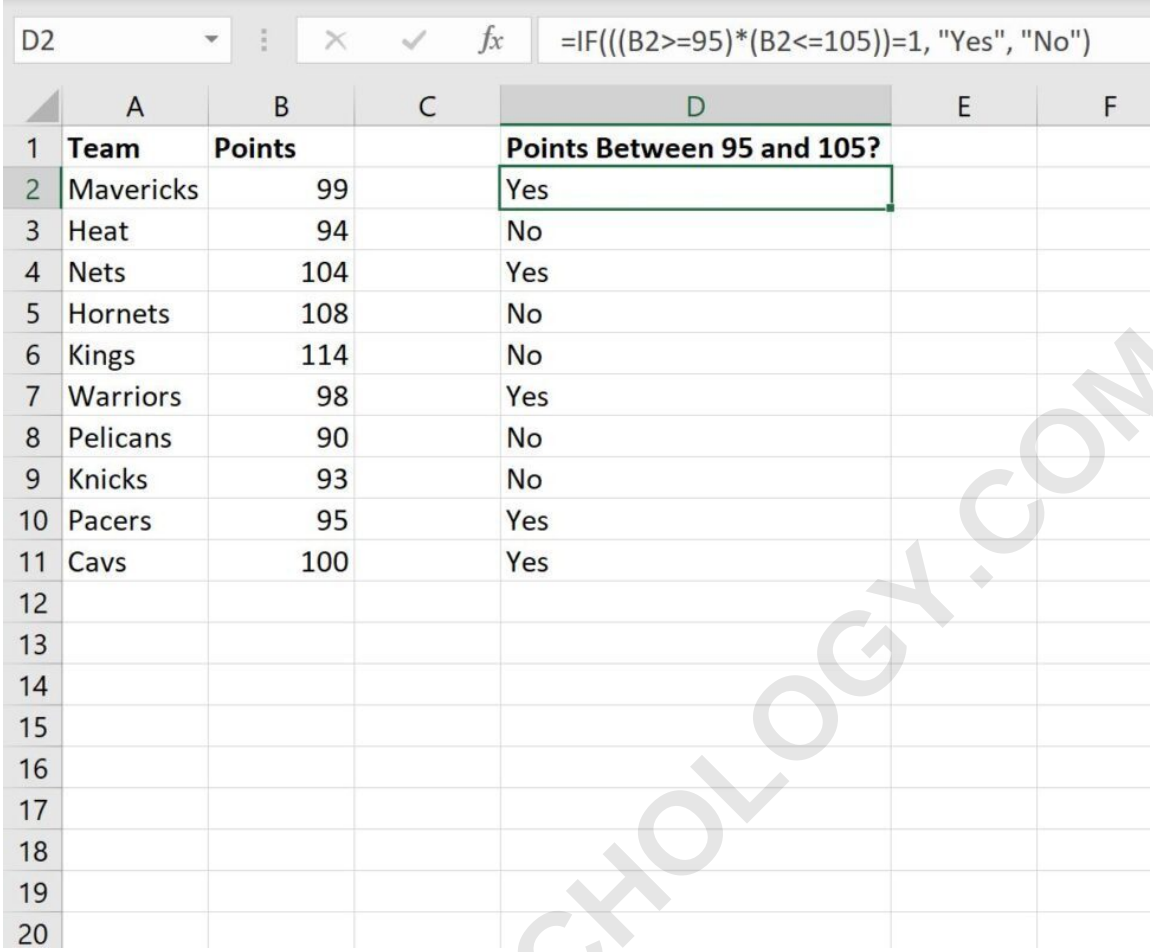
**occurs at least once in the range A2:A11.**

### Example 2: Create IF Function with Range of Numeric Values

**We can type the following formula into cell D2 to return "Yes" if the value in the Points column is between 95 and 105:**

**=IF(((B2>=95)*(B2<=105))=1, "Yes", "No")**

**We can then drag and fill this formula down to each remaining cell in column D:**




| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | **Team** | **Points** | | **Points Between 95 and 105?** | | |
| 2 | Mavericks | 99 | | Yes | | |
| 3 | Heat | 94 | | No | | |
| 4 | Nets | 104 | | Yes | | |
| 5 | Hornets | 108 | | No | | |
| 6 | Kings | 114 | | No | | |
| 7 | Warriors | 98 | | Yes | | |
| 8 | Pelicans | 90 | | No | | |
| 9 | Knicks | 93 | | No | | |
| 10 | Pacers | 95 | | Yes | | |
| 11 | Cavs | 100 | | Yes | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |



**Here's what the formula does for each row in column D:**

**If the value in the Points column is between 95 and 105, return Yes.If the value in the Points column is *not* between 95 and 105, return No.**

**Also note that you can change the last two arguments in the IF function to something other than "Yes" or "No" if you'd like to return different output values.**

**Note: The multiplication symbol (*) in the IF function**

**tells Excel that both conditions must be met in order to return "Yes."**

**The following tutorials explain how to perform other common tasks in Excel:**