

COVARIANCE.S function - Returns the covariance pattern, the average of product deviations for each pair of data points in two data sets in Excel

COVARIANCE.S function: Returns the covariance, the product of the deviations for each pair of data points in two data sets Syntax: COVARIANCE.S (array1, array2)

The following article introduces you to the **COVARIANCE.S** function - one of the functions in the statistical function group is very popular in Excel.

Hàm COVARIAN.S

Description: Returns the sample covariance, the product of the deviations for each pair of data points in the two data sets

Syntax: COVARIANCE.S (array1, array2)

Inside:


- **array1:** The first range contains integers that want to calculate the variance, is a required parameter.
- **array2:** The second range contains the integers that want to calculate the variance, is a required parameter.

Attention:

- The argument must be either a number or a reference array that contains numbers.
- If the reference argument or array contains text or logical values ??or empty cells will be ignored.
- If **array1** and **array2** have different data points -> the function returns the # N / A error value
- If 1 of the 2 arrays is empty -> the function returns the # DIV / 0 error value


For example:

Calculate the sample covariance, the average of the product of deviations of each data point pair of the two data sets in the following table:

	A	B	C
3		Hàm COVARIANCE.S trong Excel	
4		<i>Nhóm hàm thống kê</i>	
5		<i>array1</i>	<i>array2</i>
6		9	21
7		6	9
8		3	12
9		1	3
10		2	29
11		Hiệp phương sai mẫu của các điểm dữ liệu của 2 tập dữ liệu ở trên là:	
12			

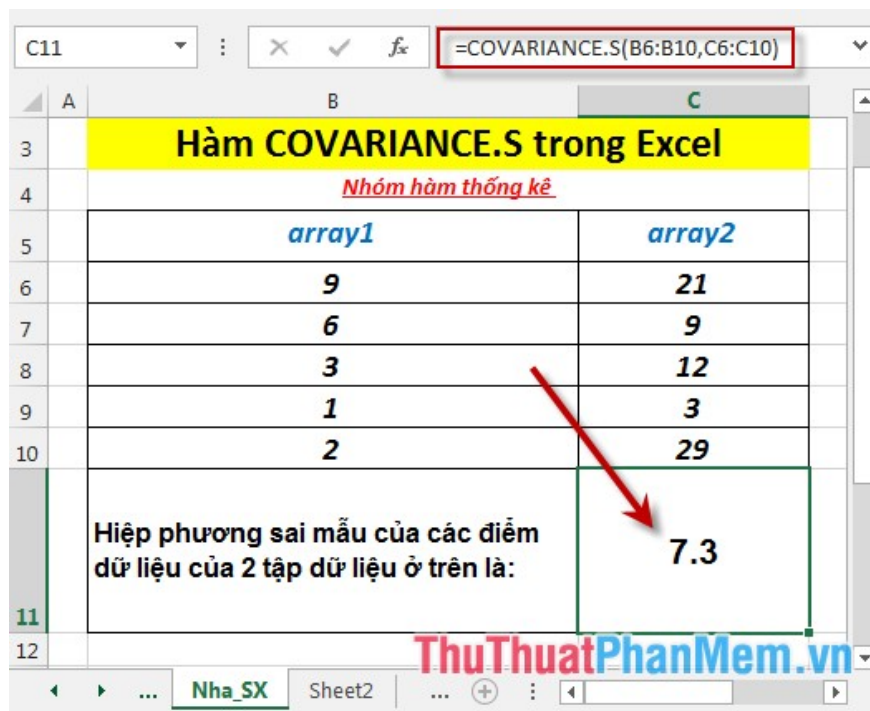
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- In the cell to calculate enter the formula : = COVARIANCE.S (B6: B10, C6: C10)

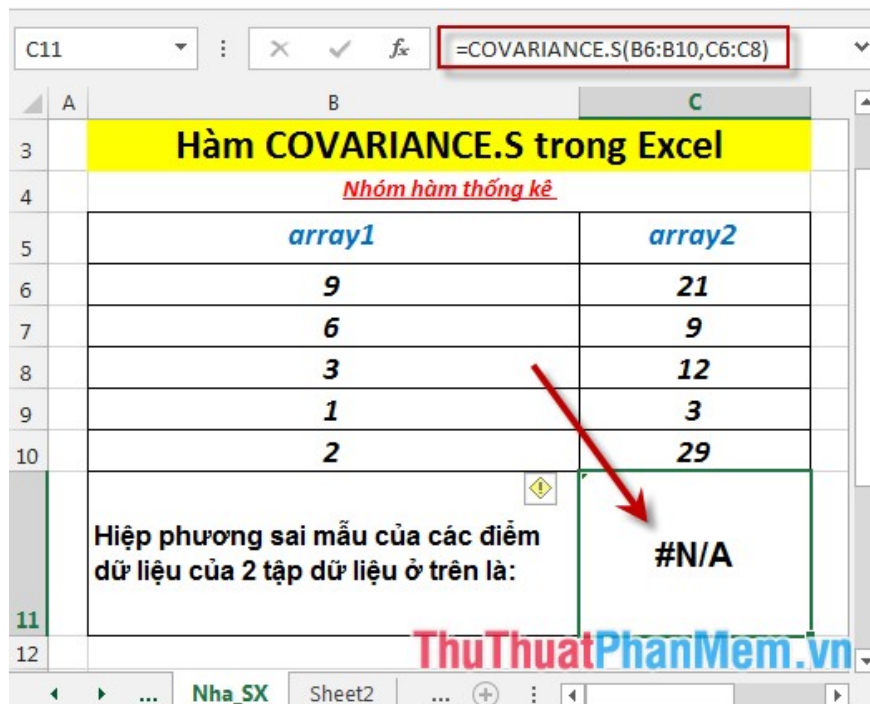
	A	B	C
3		Hàm COVARIANCE.S trong Excel	
4		<i>Nhóm hàm thống kê</i>	
5		<i>array1</i>	<i>array2</i>
6		9	21
7		6	9
8		3	12
9		1	3
10		2	29
11		Hiệp phương sai mẫu của các điểm dữ liệu của 2 tập dữ liệu ở trên là:	
12		 <div style="border: 2px solid red; padding: 5px; display: inline-block;"> = COVARIANCE .S(B6:B10, C6:C10) </div>	

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- Press **Enter** -> covariance sample, the average of the product of deviations of each data point pair of two data sets is:



- Where the number of pairs of points of 2 arrays is not the same -> the function returns the #N/A error value



Here **array2** only contains 3 values ??from **C6: C8**

Above are instructions and some specific examples when using the **COVARIANCE.S** function in Excel.

Good luck!

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