Fundamental of Programming in C#

# Day 5 Quiz

Refer to the code snippets below and complete the program which will count the number of occurrence of an integer between 0-9 in a two-dimensional array. The program should:

* Ask user to pick a number
* Go through the array and count the occurrence of that number
* Display the result using the predefined format (refer to the sample output)

Please note:

* You can use Array.GetLength(int) method to get the number of columns and rows of the two-dimensional array. E.g. : Array.GetLength(0) gives you the number of elements in the first dimension (i.e. rows) and Array.GetLength(1) gives you the number of elements in the second dimension (i.e. columns).
* You just need to write the code required to complete the program. You do not need to copy the code snippet provided.

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| --- |
| using System;  namespace Quiz\_slu  {  class Day5Quiz  {  static void Main(string[] args)  {  int[,] theArray = new int[,]  {  {5,3},{2,9},{2,9},  {5,1},{7,1},{8,3},  {0,3},{2,2},{9,7}  };  int count = 0;  Console.Write("Please enter a number (0-9): ");  int input = Convert.ToInt32(Console.ReadLine());  //Your code here  while(input > 9 || input < 0){  Console.WriteLine(“Please enter a number (0-9)”);  input = Convert.ToInt32(Console.ReadLine();  }    int m = theArray.GetLength(0);  int n = theArray.GetLength(1);  for(int i = 0; i < m; i++){  for(int j = 0; j < n; j++){  if(input == theArrary[i][j]) count++  }  }  Console.WriteLine($”The number of {input} = {count}”);  }  }  } |

## Sample outputs:

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| --- |
| Please enter a number (0-9): 9  The number of 9 is 3 |

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| --- |
| Please enter a number (0-9): 2  The number of 2 is 4 |

|  |
| --- |
| Please enter a number (0-9): 4  There is no 4 in the array. |