**6 kyu**

**Is there a sequence re-occuring in the list**

5289% of 5694 of148[IVBakker](https://www.codewars.com/users/IVBakker)

Python

* [TRAIN AGAIN](https://www.codewars.com/kata/is-there-a-sequence-re-occuring-in-the-list/train/python)
* [NEXT KATA](https://www.codewars.com/trainer/python)

Details

[Solutions](https://www.codewars.com/kata/is-there-a-sequence-re-occuring-in-the-list/solutions/python)

[Forks (3)](https://www.codewars.com/kata/is-there-a-sequence-re-occuring-in-the-list/forks/python)

[Discourse (17)](https://www.codewars.com/kata/is-there-a-sequence-re-occuring-in-the-list/discuss/python)

* Add to Collection
* |
* Share this kata:

You are given a list of items (characters and/or integers). Find if an item reoccurs after a break of its sequence (see explanation below). In other words: are there any items that reoccur in the list, but separated by one or more different items?

A sequence is a continuous "repetition" (1 or more occurence) of the same item. For example:

[0, 0, 0, 0, 0, 0, 1, 2, 3, 3, 3, 4, 0, 0]

sequence of 0s | other sequences | ^ 0 reoccurs!

Return true if there is such an item, and false otherwise.

Examples

[0, 0, 1, 1, 0, 0] ==> True # 0 is re-occuring

[0, 0, 'a', 0] ==> True # 0 is re-occuring

[0, 0, 1, 1, 2, 2, 1, 1] ==> True # 1 is re-occuring

[0, 0, 0] ==> False # no sequence re-occurs

[0, 0, 1, 1, 2, 2] ==> False # no sequence re-occurs

**Note:** Lists with up to 107 items will be tested, so make sure your code is efficient!

<https://www.codewars.com/kata/is-there-a-sequence-re-occuring-in-the-list/python>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp2

{

class Program

{

static bool is\_reoccuring(int[] items)

{

Dictionary<int, int> diccio =

new Dictionary<int, int>();

for (int i = 0; i < items.Length; i++)

{

if (diccio.ContainsKey(items[i]))

{

if (i - diccio[items[i]] > 1)

{

return true;

}

}

diccio[items[i]] = i;

}

return false;

}

static void Main(string[] args)

{

int[] arr = { 0, 0, 1, 1, 2, 2, 1, 1 };

// ==> False # no sequence re-occurs

Console.WriteLine(is\_reoccuring(arr));

Console.ReadLine();

}

}

}

def is\_reoccuring(items):

diccio = { }

for i in range(0, len(items)):

if (items[i] in diccio):

if(i - diccio[items[i]] > 1):

return True

diccio[items[i]] = i

return False

print(is\_reoccuring([0, 0, 1, 1, 2, 2, 1, 1] ))