You can view this report online at : https://www.hackerrank.com/x/tests/926879/candidates/18672742/report

| | | |
|---|---|---|
| Email: | monyra.khom@student.passerellesnumeriques.org | |
| Test Name: | **PNC WEEK14 G9** | **76.2%** scored in **PNC WEEK14 G9** in 3285 min 55 sec on 28 Oct 2020 16:31:07 +07 |
| Taken On: | 28 Oct 2020 16:31:07 +07 | **160/210** |
| Time Taken: | 3285 min 55 sec/ 7200 min | |
| Invited by: | Passerelles Numeriques | |
| Invited on: | 28 Oct 2020 12:15:57 +07 | |
| Skills Score: | | |
| Tags Score: | Python 3   160/210 | |

**Recruiter/Team Comments:**

*No Comments.*

| | Question Description | Time Taken | Score | Status |
|---|---|---|---|---|
| Q1 | **W14-1 Test if 2 arrays are equal** › **Coding** | 3 hour 22 min 4 sec | 0/ 50 | ⊗ |
| Q2 | **W14-2 Split a string into a list of words** › **Coding** | 3 hour 21 min 4 sec | 40/ 40 | ⊘ |
| Q3 | **W14-3 Arrray 2D Replace 7 by 8** › **Coding** | 17 min 9 sec | 40/ 40 | ⊘ |
| Q4 | **W14-4 Filter by age of personns** › **Coding** | 2 hour 16 min 13 sec | 40/ 40 | ⊘ |
| Q5 | **W14-5 Sum of columns** › **Coding** | 37 min 17 sec | 40/ 40 | ⊘ |

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**QUESTION 1**

⊗

**Wrong Answer**

Score 0

## W14-1 Test if 2 arrays are equal › Coding   Python 3

**QUESTION DESCRIPTION**

- Enter 2 lists of numbers in the console:

  [2, 9, 7, 6, 7]

  [2, 9, 7, 6, 7]

- Print EQUAL if the 2 arrays contains the same elements (same order!) – Print NOT EQUAL otherwise
To perform this exercise you need to code this function and call it :

| | |
|---|---|
| Function name | isEqual |
| Parameters | list1   (an array)<br>list2   (an array) |
| Return value | True if list1 and list2 are equal |
| Examples | |

/

isEqual ( [5, 11], [5, 11]  ) à  True

WARNING:

It is NOT allowed to use:  list1 == list2  : you need to compare each elements one by one.

| EXAMPLES | |
|---|---|
| CONSOLE | EXPLANATION |
| >[1, 2, 3]<br>>[1, 2, 3]<br>>EQUAL | EQUAL |
| >[1, 2, 3]<br>>[2, 1, 3]<br>>NOT EQUAL | NOT EQUAL |
| >[1, 2, 3]<br>>[1]<br>>NOT EQUAL | NOT EQUAL |
| >[1]<br>>[1, 2 , 3]<br>>NOT EQUAL | NOT EQUAL |
| >[]<br>>[]<br>> EQUAL | EQUAL |

## CANDIDATE ANSWER

Language used: **Python 3**

```python
1  def isEqual(list1,list2):
2      index1 =0
3      index2 = 0
4      if list1 != list2:
5          return False
6      else:
7          for i in range(len(list1)):
8              if list1[i]==list2[index1]:
9                  index1 = index1+1
10
11             index2 = index2+1
12         if len(list1)==index2:
13             return True
14
15
16 list1 = eval(input())
17 list2 = eval(input())
18 if isEqual(list1,list2):
19     print("EQUAL")
20 else:
21     print("NOT EQUAL")
```

| TESTCASE | DIFFICULTY | TYPE | STATUS | SCORE | TIME TAKEN | MEMORY USED |
|---|---|---|---|---|---|---|
| Testcase 0 | Easy | Sample case | Success | 10 | 0.031 sec | 7.58 KB |
| Testcase 1 | Easy | Sample case | Success | 10 | 0.0335 sec | 7.59 KB |
| Testcase 2 | Easy | Hidden case | Success | 10 | 0.0336 sec | 7.69 KB |

/

Your code is unfortunately not correct. What you have written is the same as this : if list1 != list2: return False else: return True but it was written in instruction that you are not allowed to use this style, you have to check it one by one.

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**QUESTION 2**

✓

**Correct Answer**

**Score 40**

## W14-2 Split a string into a list of words › Coding [Python 3]

**QUESTION DESCRIPTION**

- Enter  a text in the console:

   Are you ready for algorithm?

- Print the array containing all words of this text:

   ["Are", "you", "ready", "for", "algorithm?"]

In this program, you will create a function that takes a string and return a list.
The function must split the string at every space character.

| EXAMPLES | |
|---|---|
| CONSOLE | EXPLANATION |
| >hello ronan<br>>['hello', 'ronan'] |  |
| >hi<br>>['hi'] |  |
| ><br>>[] | If empty string, return an empty list |

| | |
|---|---|
| **Function name** | splitBySpace |
| **Parameters** | text  (a string) |
| **Return value** | The list of words in the given text (split at every space character) |
| **Examples** | splitBySpace( "Hello first year students" ) à<br>["Hello", "first", "year", "students"] |

**WARNING**:

It is NOT allowed to use the PYTHON instruction: split ()    : you need to code the algorithm by yourself

---

**CANDIDATE ANSWER**

Language used: **Python 3**

```
1  def splitBySpace(theString) :
2      value = ""
3      newArray = []
```

/

```
  4      for index in range(len(theString)):
  5          if theString[index]!=" ":
  6              value = value+theString[index]
  7          else:
  8
  9              newArray.append(value)
 10              value = ""
 11
 12      newArray.append(value)
 13      return newArray
 14 word = input()
 15 print(splitBySpace(word))
 16
 17
```

| TESTCASE | DIFFICULTY | TYPE | STATUS | SCORE | TIME TAKEN | MEMORY USED |
|---|---|---|---|---|---|---|
| Testcase 0 | Easy | Sample case | ✓ Success | 10 | 0.0404 sec | 7.29 KB |
| Testcase 1 | Easy | Hidden case | ✓ Success | 10 | 0.0332 sec | 7.59 KB |
| Testcase 2 | Easy | Hidden case | ✓ Success | 10 | 0.04 sec | 7.55 KB |
| Testcase 3 | Easy | Sample case | ✓ Success | 10 | 0.0338 sec | 7.57 KB |

Very good

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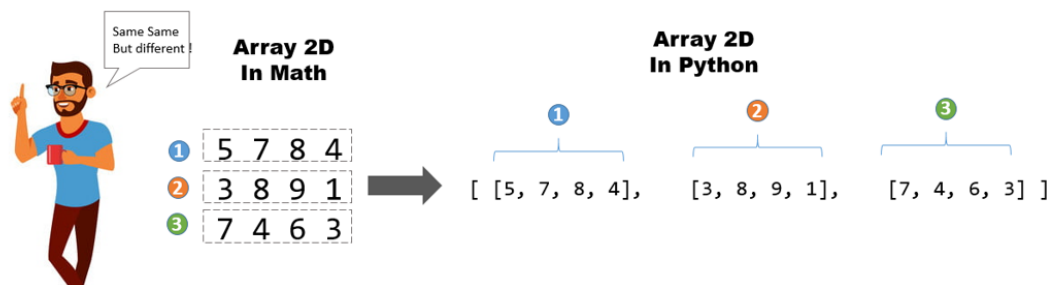## W14-3 Arrray 2D Replace 7 by 8 › Coding  Python 3

QUESTION DESCRIPTION

An array 2D can be represented using an "array of array of numbers"



For instance, how to access to the number 9 in the example above?
- First you access to the second row :     myArray[1]    => [3, 8, 9, 1]
- Then you access to the third element :   myArray[1][2]  => 9

- Enter  an array 2D in the console:
[[5, 7, 8, 4],   [5, 7, 8, 4],   [5, 7, 8, 4]]

- Replace all 7 numbers by 8  and print  the array on console :
[[5, 8, 8, 4],   [5, 8, 8, 4],   [5, 8, 8, 4]]

WARNING:

/

For this exercise, you cannot create a new array, you need to replace numbers on the SAME array

| EXAMPLES | |
|---|---|
| CONSOLE | EXPLANATION |
| > [ [ 1, 2, 3 ], [7, 7, 7] ]<br>> [ [ 1, 2, 3 ], [8, 8, 8] ] | We replaced all 7 by 8 in the array 2D |
| >[]<br>>[] | If empty string, return an empty list |
| > [ [ 1, 2, 3 ], [2, 4, 4] ]<br>> [ [ 1, 2, 3 ], [2, 4, 4] ] | If no 7 found, nothing to replace ! |

**CANDIDATE ANSWER**

Language used: **Python 3**

```python
1  # MAIN CODE
2  array2D = eval(input())
3
4  # Write your code here !
5  for index in range(len(array2D)):
6      for i in range(len(array2D[index])):
7          if array2D[index][i]==7:
8              array2D[index].pop(i)
9              array2D[index].insert(i,8)
10 print(array2D)
```

| TESTCASE | DIFFICULTY | TYPE | STATUS | SCORE | TIME TAKEN | MEMORY USED |
|---|---|---|---|---|---|---|
| Testcase 0 | Easy | Sample case | Success | 10 | 0.0348 sec | 7.56 KB |
| Testcase 1 | Easy | Sample case | Success | 10 | 0.0332 sec | 7.58 KB |
| Testcase 2 | Easy | Hidden case | Success | 10 | 0.0409 sec | 7.48 KB |
| Testcase 3 | Easy | Hidden case | Success | 10 | 0.0354 sec | 7.48 KB |

No Comments

/

# W14-4 Filter by age of personns › Coding  Python 3

## QUESTION DESCRIPTION

Let's say we have a list of persons: each person has a first name, last name and age:

| First Name | Last Name | Age |
| --- | --- | --- |
| Lyhor | Ngorm | 22 |
| Ronan | Ogor | 24 |
| Rady | Y | 95 |
| Jonathan | Faucher | 22 |

In python, we can express this using an array 2D:
[ [ "Lyhor", "Ngorn", 22], [ "Ronan", "Ogor", 24], [ "Rady", "Y", 95], [ "Jonathan", "Faucher", 22] ]

**What your programm shall do ?**
- Enter  an array 2D in the console ( the persons)
[ [ "Lyhor", "Ngorn", 22], [ "Ronan", "Ogor", 24], [ "Rady", "Y", 95], [ "Jonathan", "Faucher", 22] ]

- Enter  an number in the console (the expected age):
22

-Print the first name of persons whose age is equal to expected age:
Lyhor
Jonathan

- For instance in the example above, we print Lyhor and Jonathan because they are all 22 years old.

## CANDIDATE ANSWER

Language used: **Python 3**

```python
1  # MAIN CODE
2  persons = eval(input())
3  age = int(input())
4
5  # Write your code here !
6  for index in range(len(persons)):
7      if persons[index][2] == age:
8          print(persons[index][0])
```

| TESTCASE | DIFFICULTY | TYPE | STATUS | SCORE | TIME TAKEN | MEMORY USED |
| --- | --- | --- | --- | --- | --- | --- |
| Testcase 0 | Easy | Sample case | ✓ Success | 10 | 0.0376 sec | 7.46 KB |
| Testcase 1 | Easy | Sample case | ✓ Success | 10 | 0.0334 sec | 7.81 KB |
| Testcase 2 | Easy | Hidden case | ✓ Success | 10 | 0.0365 sec | 7.87 KB |
| Testcase 3 | Easy | Hidden case | ✓ Success | 10 | 0.046 sec | 7.7 KB |

No Comments

/

# W14-5 Sum of columns › Coding  Python 3

**QUESTION DESCRIPTION**

We have an array2D of numbers: for instance:

[[5, 7, 8],   [3, 8, 9],   [7, 4, 6]]

We want to print the sum of all columns of this array2D:

$$\begin{array}{ccc} 5 & 7 & 8 \\ 3 & 8 & 9 \\ 7 & 4 & 6 \end{array}$$

↓ ↓ ↓

$\Sigma$ =  15  19  23

**<u>What you programm shall do ?</u>**

- Enter  an array 2D of numbers  in the console :

[[5, 7, 8],   [3, 8, 9],   [7, 4, 6]]

- Print the sum of all columns of this array 2D :

[15, 19, 23]

- Explanations :

15 = 5 + 3 + 7

19 = 7 + 8 + 4

23 = 8 + 9 + 6

---

**CANDIDATE ANSWER**

Language used: **Python 3**

```
1  #main code
2  array = eval(input())
3  lengthArray = len(array[0])
4  newArray = [0] * lengthArray
5  for index in range(lengthArray):
6      for value in array:
7          newArray[index] += value[index]
8
9  print(newArray)
```

| TESTCASE | DIFFICULTY | TYPE | STATUS | SCORE | TIME TAKEN | MEMORY USED |
|----------|-----------|------|--------|-------|-----------|-------------|
| Testcase 0 | Easy | Sample case | ✓ Success | 10 | 0.0411 sec | 7.63 KB |
| Testcase 1 | Easy | Sample case | ✓ Success | 10 | 0.0333 sec | 7.63 KB |
| Testcase 2 | Easy | Hidden case | ✓ Success | 10 | 0.0328 sec | 7.55 KB |
| Testcase 4 | Easy | Sample case | ✓ Success | 10 | 0.0336 sec | 7.66 KB |

Perfect

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