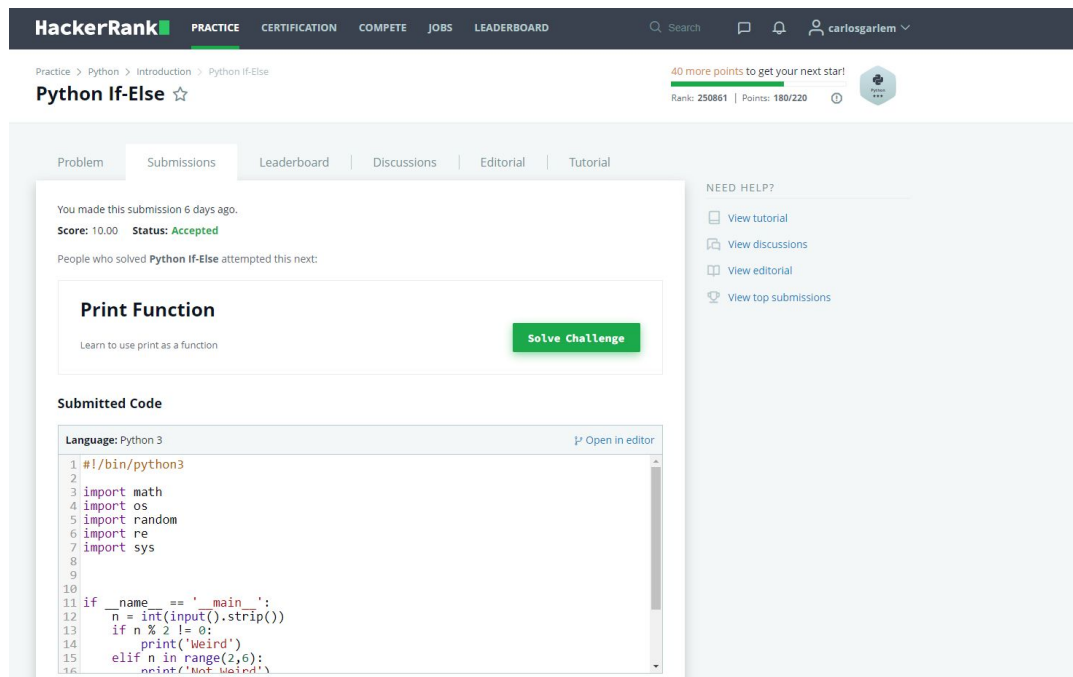


## Tarea #4

- **HackerRank user:** @carlosgarlem

### 1. <https://www.hackerrank.com/challenges/py-if-else/problem>



**HackerRank** PRACTICE CERTIFICATION COMPETE JOBS LEADERBOARD

Practice > Python > Introduction > Python If-Else

**Python If-Else** ☆

40 more points to get your next star! Rank: 250861 | Points: 180/220

Problem Submissions Leaderboard Discussions Editorial Tutorial

You made this submission 6 days ago.  
**Score:** 10.00 **Status:** Accepted

People who solved **Python If-Else** attempted this next:

**Print Function**  
Learn to use print as a function

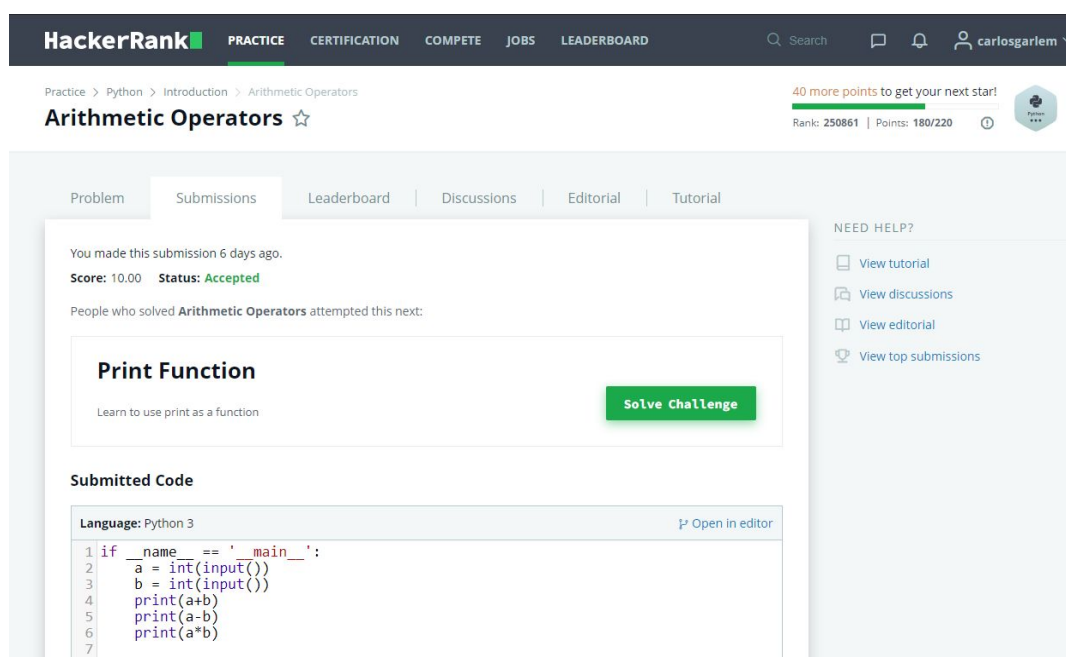
**Solve Challenge**

**Submitted Code**

Language: Python 3 [Open in editor](#)

```
1#!/bin/python3
2
3import math
4import os
5import random
6import re
7import sys
8
9
10
11if __name__ == '__main__':
12    n = int(input().strip())
13    if n % 2 != 0:
14        print('Weird')
15    elif n in range(2,6):
16        print('Not Weird')
```

### 2. <https://www.hackerrank.com/challenges/python-arithmetic-operators/problem>



**HackerRank** PRACTICE CERTIFICATION COMPETE JOBS LEADERBOARD

Practice > Python > Introduction > Arithmetic Operators

**Arithmetic Operators** ☆

40 more points to get your next star! Rank: 250861 | Points: 180/220

Problem Submissions Leaderboard Discussions Editorial Tutorial

You made this submission 6 days ago.  
**Score:** 10.00 **Status:** Accepted

People who solved **Arithmetic Operators** attempted this next:

**Print Function**  
Learn to use print as a function

**Solve Challenge**

**Submitted Code**

Language: Python 3 [Open in editor](#)

```
1if __name__ == '__main__':
2    a = int(input())
3    b = int(input())
4    print(a+b)
5    print(a-b)
6    print(a*b)
7
```

3. <https://www.hackerrank.com/challenges/python-division/problem>

The screenshot shows the HackerRank interface for the 'Python: Division' challenge. The top navigation bar includes 'HackerRank', 'PRACTICE', 'CERTIFICATION', 'COMPETE', 'JOBS', and 'LEADERBOARD'. The user's profile 'carlosgarlem' is in the top right. The breadcrumb trail is 'Practice > Python > Introduction > Python: Division'. The challenge title 'Python: Division' is displayed with a star icon. A progress bar indicates '40 more points to get your next star!' with a rank of 250861 and 180/220 points. The 'Submissions' tab is active, showing a submission from 6 days ago with a score of 10.00 and status 'Accepted'. The problem description 'Print Function' is shown with a 'Solve Challenge' button. The submitted code is as follows:

```
Language: Python 3
1 if __name__ == '__main__':
2     a = int(input())
3     b = int(input())
4     print(a//b)
5     print(a/b)
6
```

4. <https://www.hackerrank.com/challenges/python-loops/problem>

The screenshot shows the HackerRank interface for the 'Python: Loops' challenge. The top navigation bar is identical to the previous one. The breadcrumb trail is 'Practice > Python > Introduction > Loops'. The challenge title 'Loops' is displayed with a star icon. The progress bar shows '40 more points to get your next star!' with a rank of 250861 and 180/220 points. The 'Submissions' tab is active, showing a submission from 6 days ago with a score of 10.00 and status 'Accepted'. The problem description 'Print Function' is shown with a 'Solve Challenge' button. The submitted code is as follows:

```
Language: Python 3
1 if __name__ == '__main__':
2     n = int(input())
3     for i in range(0, n):
4         print(i**2)
5
```

5. <https://www.hackerrank.com/challenges/write-a-function/problem>

**HackerRank** PRACTICE CERTIFICATION COMPETE JOBS LEADERBOARD

Practice > Python > Introduction > Write a function

**Write a function** ☆

40 more points to get your next star!

Rank: 250861 | Points: 180/220

NEED HELP?

[View discussions](#)

[View editorial](#)

[View top submissions](#)

Problem Submissions Leaderboard Discussions Editorial

You made this submission 6 days ago.

Score: 10.00 Status: Accepted

People who solved Write a function attempted this next:

**Print Function**

Learn to use print as a function

Solve Challenge

Submitted Code

Language: Python 3 [Open in editor](#)

```
1 def is_leap(year):
2     leap = False
3
4     # Write your logic here
5     if year % 4 == 0:
6         if (year % 100 == 0 and year % 400 == 0) or year % 100 != 0:
7             leap = True
8         elif year % 100 != 0:
9             # leap = True
10
11     return leap
12
```

6. <https://www.hackerrank.com/challenges/find-second-maximum-number-in-a-list/problem>

**HackerRank** PRACTICE CERTIFICATION COMPETE JOBS LEADERBOARD

Practice > Python > Basic Data Types > Find the Runner-Up Score!

**Find the Runner-Up Score!** ☆

40 more points to get your next star!

Rank: 250861 | Points: 180/220

NEED HELP?

[View discussions](#)

[View editorial](#)

[View top submissions](#)

Problem Submissions Leaderboard Discussions Editorial

You made this submission 6 days ago.

Score: 10.00 Status: Accepted

People who solved Find the Runner-Up Score! attempted this next:

**Nested Lists**

In a classroom of N students, find the student with the second lowest grade.

Solve Challenge

Submitted Code

Language: Python 3 [Open in editor](#)

```
1 if __name__ == '__main__':
2     n = int(input())
3     arr = map(int, input().split())
4     lista = list(set(arr))
5     lista.sort(reverse = True)
6     print(lista[1])
7
8
```

## 7. <https://www.hackerrank.com/challenges/finding-the-percentage/problem>

**HackerRank**

PRACTICE

CERTIFICATIONCOMPETEJOBSLEADERBOARD

Search

carlosgarlem

Practice > Python > Basic Data Types > Finding the percentage

**Finding the percentage** ☆

40 more points to get your next star!

Rank: 250861 | Points: 180/220

ProblemSubmissionsLeaderboardDiscussionsEditorialTutorial

You made this submission 6 days ago.  
**Score:** 10.00 **Status:** Accepted

People who solved **Finding the percentage** attempted this next:

**Print Function**

Learn to use print as a function

Solve Challenge

**Submitted Code**

Language: Python 2 [Open in editor](#)

```
1 if __name__ == '__main__':
2     n = int(raw_input())
3     student_marks = {}
4     for _ in range(n):
5         line = raw_input().split()
6         name, scores = line[0], line[1:]
7         scores = map(float, scores)
8         student_marks[name] = scores
9         query_name = raw_input()
10
11     print('%.2f' %
12           (sum(student_marks[query_name])/len(student_marks[query_name])))
```

NEED HELP?

[View tutorial](#)

[View discussions](#)

[View editorial](#)

[View top submissions](#)

## 8. <https://www.hackerrank.com/challenges/python-lists/problem>

**HackerRank**

PRACTICE

CERTIFICATIONCOMPETEJOBSLEADERBOARD

Search

carlosgarlem

Practice > Python > Basic Data Types > Lists

**Lists** ☆

40 more points to get your next star!

Rank: 250862 | Points: 180/220

ProblemSubmissionsLeaderboardDiscussionsEditorialTutorial

You made this submission 6 days ago.  
**Score:** 10.00 **Status:** Accepted

People who solved **Lists** attempted this next:

**List Comprehensions**

You will learn about list comprehensions.

Solve Challenge

**Submitted Code**

Language: Python 3 [Open in editor](#)

```
1 if __name__ == '__main__':
2     N = int(input())
3     lista = []
4
5     for _ in range(0,N):
6         line = list(input().split())
7         if line[0] == 'insert':
8             lista.insert(int(line[1]), int(line[2]))
9         elif line[0] == 'remove':
10            lista.remove(int(line[1]))
11        elif line[0] == 'append':
12            lista.append(int(line[1]))
13        elif line[0] == 'sort':
14            lista.sort()
15        elif line[0] == 'pop':
16            lista.pop()
```

NEED HELP?

[View tutorial](#)

[View discussions](#)

[View editorial](#)

[View top submissions](#)

9. <https://www.hackerrank.com/challenges/python-tuples/problem>

**HackerRank** PRACTICE CERTIFICATION COMPETE JOBS LEADERBOARD

Practice > Python > Basic Data Types > Tuples

**Tuples** ☆

40 more points to get your next star!  
Rank: 250862 | Points: 180/220

Problem Submissions Leaderboard Discussions Editorial Tutorial

You made this submission 6 days ago.  
**Score:** 10.00 **Status:** Accepted

People who solved **Tuples** attempted this next:

**List Comprehensions**  
You will learn about list comprehensions. [Solve Challenge](#)

**Submitted Code**

Language: Python 2 [Open in editor](#)

```
1 if __name__ == '__main__':  
2     n = int(raw_input())  
3     integer_list = map(int, raw_input().split())  
4     print(hash(tuple(integer_list)))  
5
```

10. <https://www.hackerrank.com/challenges/defaultdict-tutorial/problem>

**HackerRank** PRACTICE CERTIFICATION COMPETE JOBS LEADERBOARD

Practice > Python > Collections > DefaultDict Tutorial

**DefaultDict Tutorial** ☆

40 more points to get your next star!  
Rank: 250862 | Points: 180/220

Problem Submissions Leaderboard Discussions Editorial

You made this submission 5 days ago.  
**Score:** 20.00 **Status:** Accepted

People who solved **DefaultDict Tutorial** attempted this next:

**Collections.namedtuple()**  
You need to turn tuples into convenient containers using collections.namedtuple(). [Solve Challenge](#)

**Submitted Code**

Language: Python 3 [Open in editor](#)

```
1 # Enter your code here. Read input from STDIN. Print output to STDOUT  
2 from collections import defaultdict  
3 d = defaultdict(list)  
4  
5 lista = map(int, input().split())  
6 n, m = lista  
7 for i in range(1, n + 1):  
8     letter = input()  
9     d[letter].append(str(i))  
10  
11 for j in range(0, m):  
12     lista = d[input()]  
13     if len(lista) > 0:  
14         print(' '.join(lista))  
15     else:  
16         print('-1')
```

## 11. <https://www.hackerrank.com/challenges/collections-counter/problem>

**HackerRank** PRACTICE CERTIFICATION COMPETE JOBS LEADERBOARD  carlosgarlem

Practice > Python > Collections > collections.Counter()

**collections.Counter()** ☆

40 more points to get your next start!  
Rank: 250862 | Points: 180/220

Problem Submissions Leaderboard Discussions Editorial

You made this submission 5 days ago.  
**Score:** 10.00 **Status:** Accepted

People who solved **collections.Counter()** attempted this next:

**Collections.namedtuple()**  
You need to turn tuples into convenient containers using collections.namedtuple().

Solve Challenge

Submitted Code

Language: Python 3 [Open in editor](#)

```
1 # Enter your code here. Read input from STDIN. Print output to STDOUT
2 from collections import Counter
3
4 x = int(input())
5 shoes = list(map(int, input().split()))
6 countShoes = Counter(shoes)
7 n = int(input())
8
9 money = 0
10 for i in range(0,n):
11     purchase = map(int, input().split())
12     size, price = purchase
13     search = countShoes.get(size)
14     if search != None:
15         available = 1 if search > 0 else 0
16         money += price * available
```

## 12. [https://www.hackerrank.com/challenges/minimum-swaps-2/problem?h\\_l=interview&playlist\\_slugs%5B%5D=interview-preparation-kit&playlist\\_slugs%5B%5D=arrays](https://www.hackerrank.com/challenges/minimum-swaps-2/problem?h_l=interview&playlist_slugs%5B%5D=interview-preparation-kit&playlist_slugs%5B%5D=arrays)

**HackerRank** PRACTICE CERTIFICATION COMPETE JOBS LEADERBOARD  carlosgarlem

Practice > Interview Preparation Kit > Arrays > Minimum Swaps 2

**Minimum Swaps 2** ☆

Problem Submissions Leaderboard Discussions Editorial

You made this submission 2 minutes ago.  
**Score:** 40.00 **Status:** Accepted

People who solved **Minimum Swaps 2** attempted this next:

**Array Manipulation**  
Perform m operations on an array and print the maximum of the values.

Solve Challenge

Submitted Code

Language: Python 2 [Open in editor](#)

```
1 #!/bin/python
2
3 import math
4 import os
5 import random
6 import re
7 import sys
8
9 # Complete the minimumSwaps function below.
10 def minimumSwaps(arr):
11     count = 0
12     for i in range(0, len(arr)):
13         while arr[i] != i+1:
```

13. <https://www.hackerrank.com/challenges/floor-ceil-and-rint/problem>

**HackerRank** PRACTICE CERTIFICATION COMPETE JOBS LEADERBOARD

Practice > Python > Numpy > Floor, Ceil and Rint

**Floor, Ceil and Rint** ☆

40 more points to get your next star!  
Rank: 250862 | Points: 180/220

Problem Submissions Leaderboard Discussions Editorial

You made this submission 4 days ago.  
**Score:** 20.00 **Status:** Accepted

People who solved **Floor, Ceil and Rint** attempted this next:

**Sum and Prod**

Perform the sum and prod functions of Numpy on the given 2-D array.

[Solve Challenge](#)

**Submitted Code**

Language: Python 3 [Open in editor](#)

```
1 import numpy
2 numpy.set_printoptions(legacy = '1.13')
3
4 array = numpy.array(input().split(), dtype = numpy.float32)
5
6 print(numpy.floor(array))
7 print(numpy.ceil(array))
8 print(numpy rint(array))
9
```

14. [https://www.hackerrank.com/challenges/ctci-bubble-sort/problem?h\\_l=interview&playlist\\_slugs%5B%5D=interview-preparation-kit&playlist\\_slugs%5B%5D=sorting](https://www.hackerrank.com/challenges/ctci-bubble-sort/problem?h_l=interview&playlist_slugs%5B%5D=interview-preparation-kit&playlist_slugs%5B%5D=sorting)

**HackerRank** PRACTICE CERTIFICATION COMPETE JOBS LEADERBOARD

Practice > Interview Preparation Kit > Sorting > Sorting: Bubble Sort

**Sorting: Bubble Sort** ☆

Problem Submissions Leaderboard Discussions Editorial

You made this submission 3 days ago.  
**Score:** 30.00 **Status:** Accepted

People who solved **Sorting: Bubble Sort** attempted this next:

**Larry's Array**

Larry

[Solve Challenge](#)

**Submitted Code**

Language: Python 3 [Open in editor](#)

```
1 #!/bin/python3
2
3 import math
4 import os
5 import random
6 import re
7 import sys
8
9 # Complete the countSwaps function below.
10 def countSwaps(a):
11     swaps = 0
12     for i in range(0,n-1):
13         for j in range(0, n-1, 1):
14             #swap adjacent elements if they are in decreasing order
15             if (a[j] > a[j+1]):
16                 a[j], a[j+1] = a[j+1], a[j]
```



15. <https://www.hackerrank.com/challenges/np-arrays/problem>

**HackerRank** PRACTICE CERTIFICATION COMPETE JOBS LEADERBOARD

Search

carlosgarlem

Practice > Python > Numpy > Arrays

Arrays ☆

40 more points to get your next star!

Rank: 250862 | Points: 180/220

Problem Submissions Leaderboard Discussions Editorial

You made this submission 4 days ago.

Score: 20.00 Status: Accepted

People who solved Arrays attempted this next:

### Shape and Reshape

Using the shape and reshape tools available in the NumPy module, configure a list according to the guidelines.

[Solve Challenge](#)

Submitted Code

Language: Python 3 [Open in editor](#)

```
2
3
4 def arrays(arr):
5     # complete this function
6     # use numpy.array
7     narray = numpy.array(arr, float)
8     return numpy.flip(narray)
9
10
```

NEED HELP?

[View discussions](#)

[View editorial](#)

[View top submissions](#)

16. <https://www.hackerrank.com/challenges/np-zeros-and-ones/problem>

**HackerRank** PRACTICE CERTIFICATION COMPETE JOBS LEADERBOARD

Search

carlosgarlem

Practice > Python > Numpy > Zeros and Ones

Zeros and Ones ☆

40 more points to get your next star!

Rank: 250862 | Points: 180/220

Problem Submissions Leaderboard Discussions Editorial

You made this submission 4 days ago.

Score: 20.00 Status: Accepted

People who solved Zeros and Ones attempted this next:

### Eye and Identity

Create an array using the identity or eye tools from the NumPy module.

[Solve Challenge](#)

Submitted Code

Language: Python 3 [Open in editor](#)

```
1 import numpy
2
3 shape = tuple(map(int, input().split()))
4 print(numpy.zeros(shape, dtype = numpy.int))
5 print(numpy.ones(shape, dtype = numpy.int))
6
```

NEED HELP?

[View discussions](#)

[View editorial](#)

[View top submissions](#)