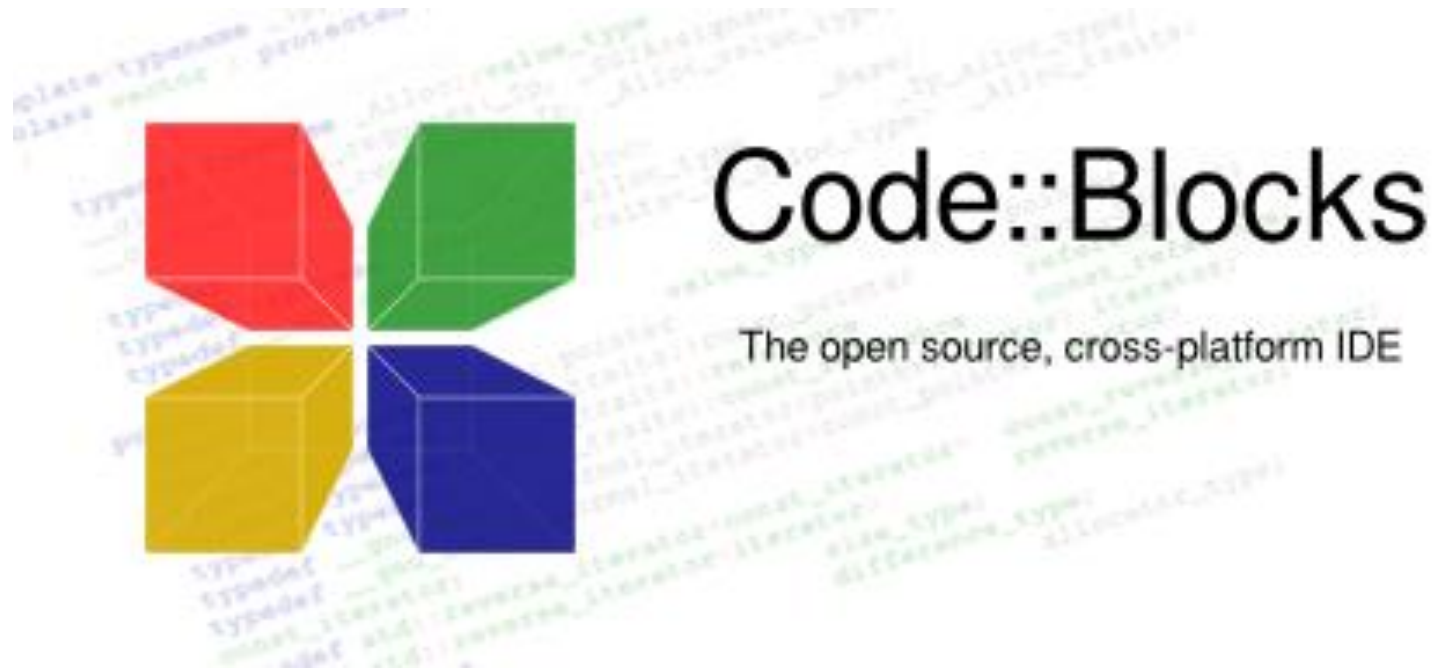


# 上機規則

# IDE: Code Blocks



# Rules

- Online Judge
  - No demo required
- You don't need to come because of epidemic prevention
  - Lab problem
  - Dungeon (<https://www.youtube.com/playlist?list=PLolSxpCB-u1AkcGChEgFomFRhuLrFsOCu>)
- The lowest two score will not be taken

# Online Judge: HackerRank

<https://www.hackerrank.com/>

**HackerRank**

LoginSign Up

Matching developers  
with great companies.

**For Companies**


We are the market-leading technical interview platform to identify and hire developers with the right skills.

[Start Hiring](#)

**For Developers**

Join over 7 million developers, practice coding skills, prepare for interviews, and get hired.

[Sign Up & Code](#)

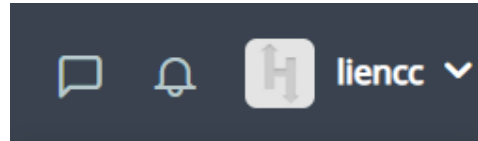


Copyright © 2020 HackerRank | Privacy Policy

# Change your username

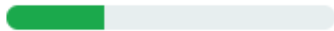
Please register an account and the username must follow the format: <YourStudentID>\_<YourName>. For example, 0123456\_TA.

# Change your username



Hackos: 3148

Profile



Settings

Bookmarks

Network

Submissions

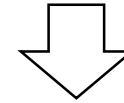
Administration

Logout

Your Username

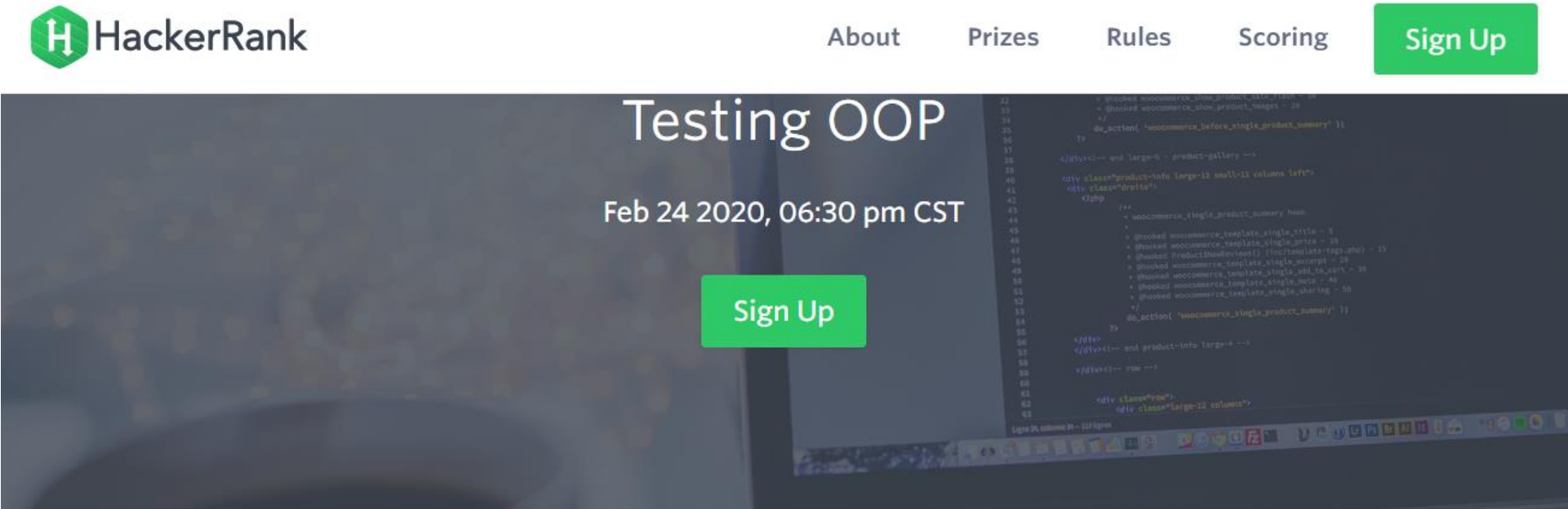
(This is how users will see you on HackerRank. You have 1 change left.)

0123456\_TA



Save Changes

# Sign up a contest



The screenshot shows the HackerRank website interface. At the top left is the HackerRank logo. To its right are navigation links: 'About', 'Prizes', 'Rules', 'Scoring', and a prominent green 'Sign Up' button. The main banner area features a dark background with a blurred image of a person. Overlaid on this banner is the text 'Testing OOP' in a large, white, sans-serif font. Below the title, the date and time 'Feb 24 2020, 06:30 pm CST' are displayed in a smaller white font. A green 'Sign Up' button is centered below the date. On the right side of the banner, there is a snippet of PHP code, likely related to WooCommerce, showing functions for displaying product information and handling actions.

HackerRank

About Prizes Rules Scoring [Sign Up](#)

## Testing OOP

Feb 24 2020, 06:30 pm CST

[Sign Up](#)

```
22 * @hooked woocommerce_show_product_sale_flash - 10
23 * @hooked woocommerce_show_product_images - 20
24 **
25 do_action( 'woocommerce_before_single_product_summary' );
26
27
28 </div><!-- end large-5 - product-gallery -->
29
30 <div class="product-info large-12 small-12 columns left">
31 <div class="title">
32
33
34 * woocommerce_single_product_summary_hook
35 *
36 * @hooked woocommerce_template_single_title - 5
37 * @hooked woocommerce_template_single_price - 10
38 * @hooked ProductShowReviews() (woocommerce_tag.php) - 15
39 * @hooked woocommerce_template_single_excerpt - 20
40 * @hooked woocommerce_template_single_add_to_cart - 30
41 * @hooked woocommerce_template_single_meta - 40
42 * @hooked woocommerce_template_single_starling - 50
43 **
44 do_action( 'woocommerce_single_product_summary' );
45
46
47 </div>
48 </div><!-- end product-info large- -->
49
50 </div><!-- row -->
51
52 <div class="row">
53 <div class="large-12 columns">
```

About

# Choose a challenge

[All Contests](#) > [Testing OOP](#)

## Testing OOP [Details](#)

### Challenges



Current Rank: N/A

#### Testing challenge for OOP

Success Rate: 100.00% Max Score: 100 Difficulty: Easy



Solve Challenge

[Current Leaderboard](#)

[Compare Progress](#)

[Review Submissions](#)





# Paste your code or upload your code to submit



Sample Output 0

Hello lemon

Explanation 0

This is only an example for testing

Current Buffer (saved locally, editable)  

C++  

```
1 #include <bits/stdc++.h>
2
3 using namespace std;
4
5
6
7 int main()
8 {
9     string s;
10    cin >> s;
11
12    cout << s << endl;
13
14    return 0;
15 }
16
```

Line: 1 Col: 1

[Upload Code as File](#) ☐ Test against custom input Run Code Submit Code

# Finished when you pass all the test cases

[All Contests](#) > [Testing OOP](#) > [Testing challenge for OOP](#)

## Testing challenge for OOP

 by [liencc](#)

Problem	Submissions	Leaderboard	Discussions
Submitted a few seconds ago • Score: 100.00			
Status: Accepted			
✓	Test Case #0	✓	Test Case #1







### Submitted Code

Language: C++ [Open in editor](#)

```
1 #include <bits/stdc++.h>
```

# We will only look at the leaderboard

## Leaderboard

All	Friends	Filter by	Select filter		Type username to compare	Compare
Rank	User	Score	Time	Country		
1	0816153_CTFang	100.00	17:41			
1	0856602_mzlin	100.00	23:25			
1	0512247_brian	100.00	24:15			
1	Audit_student	100.00	24:19			
1	0816089_Miau	100.00	26:05			
1	0816145_WeiTing	100.00	26:58			

# Rules

- Pass the online judge
- Upload .cpp files to new e3
  - format: <question number>.cpp, ex. Q1.cpp
- Caution: You must finish the question on the same day
  - The question will be easy in principle
- Online judge close time: 24:00
- New e3 close time: 25:00

# Lab 1

[www.hackerrank.com/2021-ds-and-oop-lab1](https://www.hackerrank.com/2021-ds-and-oop-lab1)



About

Prizes

Rules

Scoring

Sign Up

## 2021 DS and OOP - Lab1

Mar 8 2021, 06:30 pm CST to Mar 9 2021, 12:00 am CST

Sign Up

Starts in

01:01:40

# Lab 1

## Q1 - Address Reference Calculator

Problem

Submissions

Leaderboard

Discussions

In this practice, please finish the following template by using **pass-by-address** and **pass-by-reference**.

### Input Format

The input consists two numbers per line. You don't need to handle the input.

### Constraints

Do not modify the main function.

### Output Format

The output is the sum, difference, product, and the quotient of the two number. You don't need to handle the output, either.

### Sample Input 0

```
8 4
```

### Sample Output 0

```
12 4 32 2
```

# Lab 1

## Q2 - Compute your score

Problem	Submissions	Leaderboard	Discussions
---------	-------------	-------------	-------------

Ken has took a course this semester, however, he didn't get high score in his midterm exam(there are 4 exams in this class). He want to know how many points he should get in his final exam to pass the course(average 60 to pass the course).

### Input Format

The input consists one line with a string and three integer per line, representing student name and the three midterm score he or she get. You don't need to handle the input.

### Constraints

Do not modify the main function.

### Output Format

The output is the student name follow with the minimum score to pass the course(e.g. average of the four exam score should be over 60), all the score should be integer. If the minimum score is less than 0, the output will be 0.

### Sample Input 0

```
Ken 50 40 55
```

### Sample Output 0

```
Ken 95
```

# Lab 1

- The deadline will be on next Monday for lab 1



Q&A

# Q&A

Q：助教我忘記把 code 上傳 new e3 了，有沒有辦法補交？

A：基本上只要 online judge 運作正常我們都不會看 new e3 的檔案，會以 online judge 成績為主，上傳 new e3 只是以防萬一，除非特殊情況否則無法補交。

# Q&A

Q：助教我今天上機臨時有事情有沒有辦法請假？

A：我們 **12** 次上機裡面只會取 **10** 次的分數，每個人有 **2** 次扣打，不需要跟我們請假。

# Q&A

Q：助教今天題目太困難沒辦法在今天之內寫完！

A：我們會看 **leaderboard** 的情況，如果太多人都無法如期完成我們會把繳交時間延後一天。