



SHOPEE CODE LEAGUE 2021


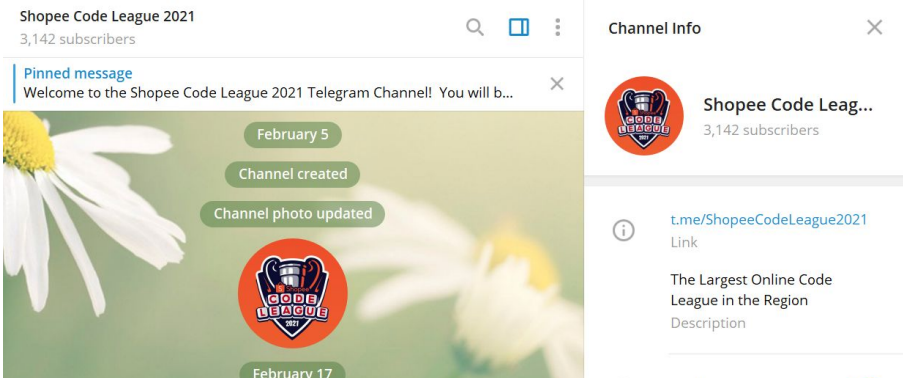
HACKEREARTH COMPETITION GUIDE

Getting Started

To get started, please register on Telegram & Hackerearth prior to the start of the competition.

- (1) **[Compulsory]** Set up your Telegram Channel to receive important updates and announcements.

Steps	Instructions
1	Download the app on your mobile For iOS users: https://apps.apple.com/us/app/telegram-messenger/id686449807 For Android users: https://play.google.com/store/apps/details?id=org.telegram.messenger&hl=en_SG
2	Enter verification code sent to your mobile
3	Access Telegram Web on your Laptop: https://web.telegram.org/#/login
4	Join the Shopee Code League 2021 Telegram Channel https://t.me/ShopeeCodeLeague2021

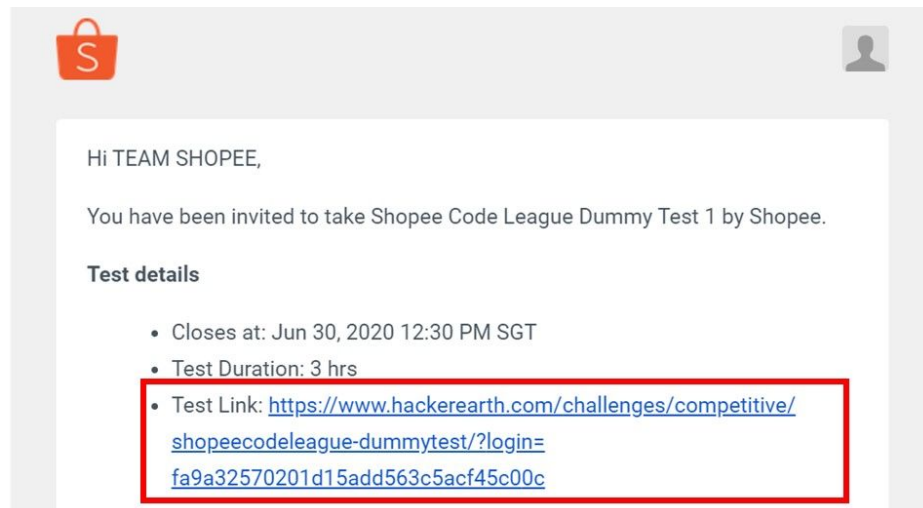
	<div data-bbox="418 247 1295 289" style="background-color: #00a0e3; color: white; text-align: center; padding: 5px;"> Don't have Telegram yet? Try it now! > </div> <div data-bbox="803 325 917 441" style="text-align: center;">  </div> <div data-bbox="711 451 1006 487" style="text-align: center;"> Shopee Code League 2021 </div> <div data-bbox="808 483 912 508" style="text-align: center;"> 3 133 members </div> <div data-bbox="730 512 990 562" style="text-align: center;"> The Largest Online Code League in the Region </div> <div data-bbox="776 588 945 630" style="text-align: center; background-color: #00b050; color: white; border-radius: 10px; padding: 10px 20px; margin: 10px auto; width: fit-content;"> VIEW IN TELEGRAM </div> <div data-bbox="812 646 909 667" style="text-align: center;"> Preview channel </div> <p data-bbox="316 751 1161 793">*Note: The invite link would bring you to this page. Click “Join Channel”.</p>
<p>5</p>	<div data-bbox="316 814 560 850"> Successful Joining </div> <div data-bbox="316 844 1128 882"> This should be the page you see upon joining the Telegram Channel. </div> <div data-bbox="418 882 1315 1260">  </div>

(2) **[Compulsory]** Set up and register for your Hackerearth account.

Step 1: Hackerearth Email Invitation

For teams that have submitted the form **before 17 March 11AM (GMT+7) / 12PM (GMT+8)**, a Hackerearth invitation will be sent to the **team leader's email address** by 19 March (**Your team leader is the member that was appointed to submit the form to enter the Programming Contest.**) Each team will only have access to the Hackerearth account using their team leader's email address. Only invited email addresses will be able to access the competitions. This means that only 1 team member from each team will have 1 Hackerearth account.

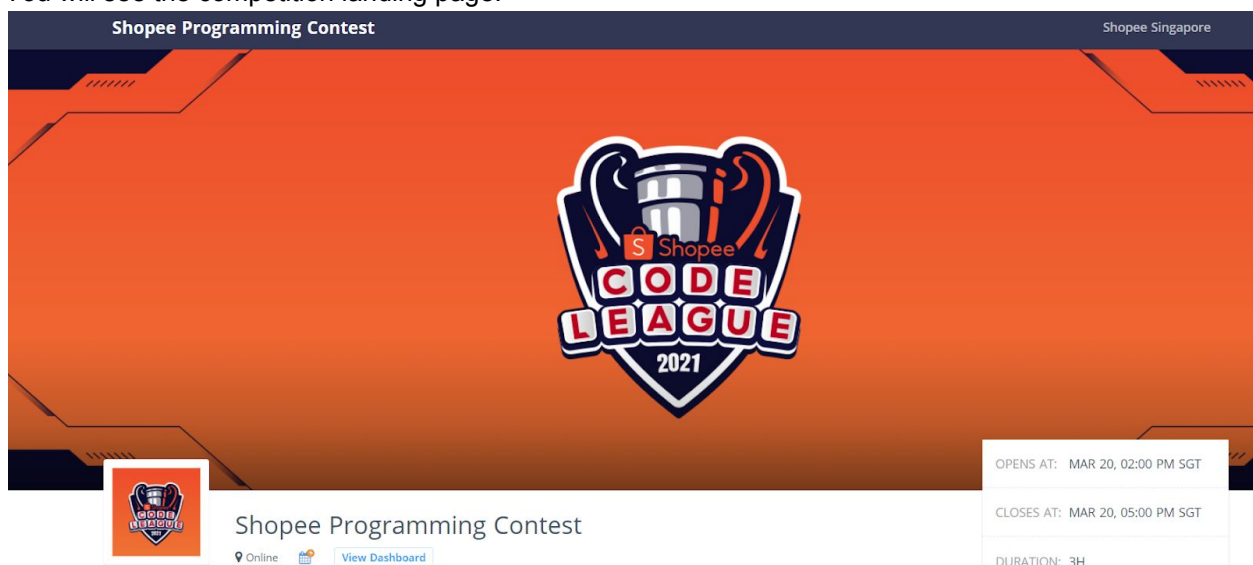
Only 1 person from each team can access the page and submit at any point in time.



Step 2: Competition Homepage

Access the competition page via the unique link sent in the email. An account will automatically be generated. Please sign in.

You will see the competition landing page.



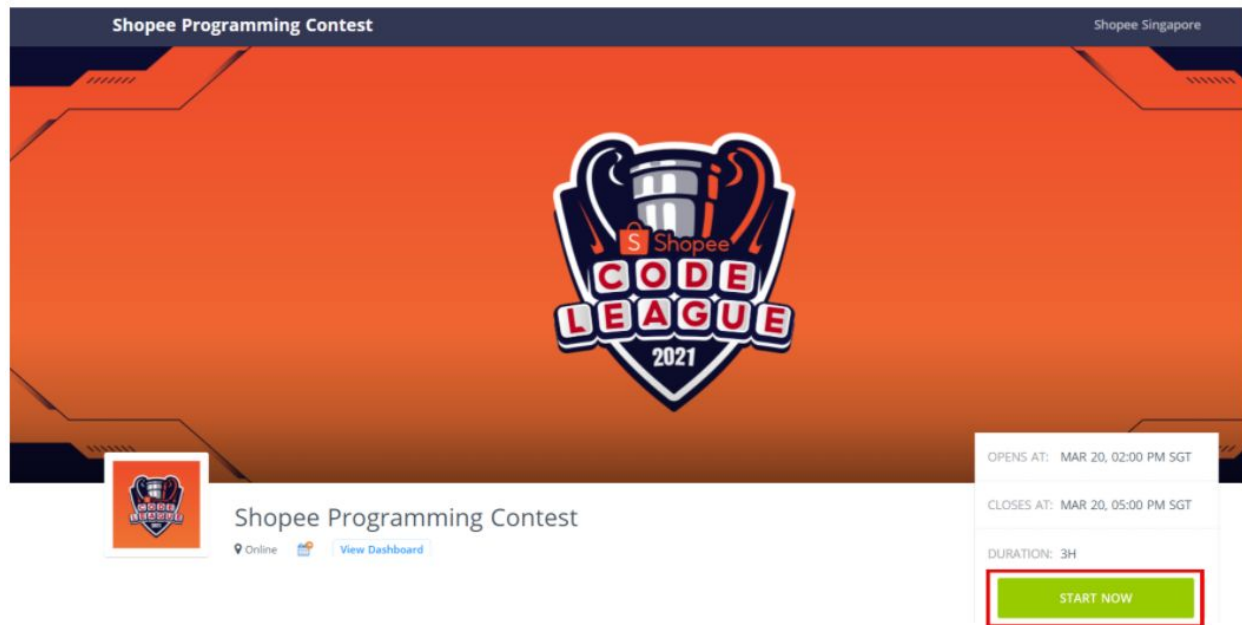
Step 3: Accessing Competition Page

Once the competition has opened, click “Start Now” to access the content page.

If you access the invitation link before the competition launch time, you will see “Register” instead of “Start Now”.

Do note that the “Register” button is invalid, as this is an invite-only competition.

Only the team leader’s email address will be able to access the competition.



Step 4: Discussions Forum

On the competition landing page, there is a “Discussions” forum. Please post any problem statement related questions on the forum. **Do not** send any questions regarding the problem statement to techsg@shopee.com.

Click on the topics to access the discussions or click “Create new topic” to start a new discussion thread.

LEAGUE 2021

Shopee Programming Contest

Online [View Dashboard](#)

OPENS AT: MAR 20, 02:00 PM SGT

CLOSES AT: MAR 20, 05:00 PM SGT

DURATION: 3H

START NOW

ABOUT CHALLENGE

In this contest, you will have to solve 3 algorithm problem statements. You will have 3 hours to read the problems, compile and test your codes and submit your codes.

Shopee Code League Partners

DISCUSSIONS

XXX

1 1

[Create new topic](#)

To view the full discussion thread, click on the topic title. You may also choose to reply to the thread.

Melissa

XXX

1 week ago

1

Replies (1)

Newest Search...


techsg

Click here to add a reply...








LIVE EVENTS 5

To start a new discussion thread, click “Create a new topic”. Remember to “Publish topic”. Other participants will be able to reply to your discussion thread.

Home > Challenges > Shopee Code League Dummy Test 1 > Discussions > New



Topic title...

B *I*       


2000 words over the limit of 2000 words.


[Preview](#)
[Publish topic](#)

LIVE EVENTS 5

Step 5: Begin the Competition

Please read the competition instructions carefully.





Shopee Code League Dummy Test 1

Jun 11, 2020, 12:30 PM SGT - Jun 30, 2020, 12:30 PM SGT

LIVE
INVITE ONLY ACCESS

02:59:16

HRS MIN SEC

Finish Test

[INSTRUCTIONS](#)
[PROBLEMS](#)
[SUBMISSIONS](#)
[LEADERBOARD](#)
[ANALYTICS](#)
[JUDGE](#)


Instructions

- 1) You may either write your codes on Hackerearth or upload them onto Hackerearth.
- 2) Please remember to click "Submit"
- 3) Please only click "Finish Test" when you are confident that you are done with the test.
- 4) Please read the problem statements, test and compile your codes, and submit your codes within these 3 hours.
- 5) You will not be able to access the problem statements once the contest ends.

LIVE EVENTS 5

To view the problem statements, click "Problems". The entire competition is 3 hours long. The countdown will begin at 1pm (GMT+7) / 2PM (GMT+8) and you will have 3 hours or up to 4:00pm (GMT+7) / 5:00pm (GMT+8) (whichever earlier) to submit your codes.

Please attempt and submit your answers within the competition timing.



Shopee Code League Dummy Test 1

LIVE
INVITE ONLY ACCESS

02:56:55

Finish Test

Jun 11, 2020, 12:30 PM SGT - Jun 30, 2020, 12:30 PM SGT

PROBLEMS

SUBMISSIONS

LEADERBOARD

ANALYTICS

JUDGE

5

LIVE EVENTS

Problems

You have to solve as many problem(s) as you can before the timer ends and based on the accuracy of your submission you will get the scores.

SOLVE PROBLEMS	ACCURACY	MAX. SCORE
● Removing trees	0%	100
● Build the shelters	0%	100
● Weird elevators	0%	100

RECENT SUBMISSIONS

DEVELOPERS	RESULT	LANGUAGE
techsg Build the shelte...		C
techsg Removing trees		C

?

[← Problems / Removing trees](#)

Removing trees

Max. score: 100

You are given a tree consisting of N vertices. What is the minimum number of vertices that should be removed such that all the remaining parts of the initial tree contain less than K vertices?

Input format

- The first line contains one integer K .
- The second line contains one integer N .
- The third line contains $N - 1$ space-separated integers a_i for $2 \leq i \leq N$ which means that vertices i and a_i are connected by an edge.

Output format

Print one number denoting the answer to the question.

Constraints

RECENT SUBMISSIONS

DEVELOPERS	RESULT	LANGUAGE
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View All

?

Step 6: Submission

You are allowed multiple attempts for each problem statement.

To test your code, please **click “Compile & Test”**. To save your code, please **click “Submit”**.

Please note that the competition will **NOT** end when you click “Compile & Test” or “Submit”. You can still attempt it again.

```
7  
8 }  
9  
10 int main() {  
11     int K;  
12     scanf("%d", &K);  
13     int N;  
14     scanf("%d", &N);  
15     int i_arr;  
16     int *arr = (int *)malloc(sizeof(int)*(N-1));  
17     for(i_arr = 0; i_arr < N-1; i_arr++)  
18         scanf("%d", &arr[i_arr]);  
19  
20     int out_ = solve(K, N, arr);  
21     printf("%d", out_);  
22 }
```

1:1 vscode

☒ Provide custom input

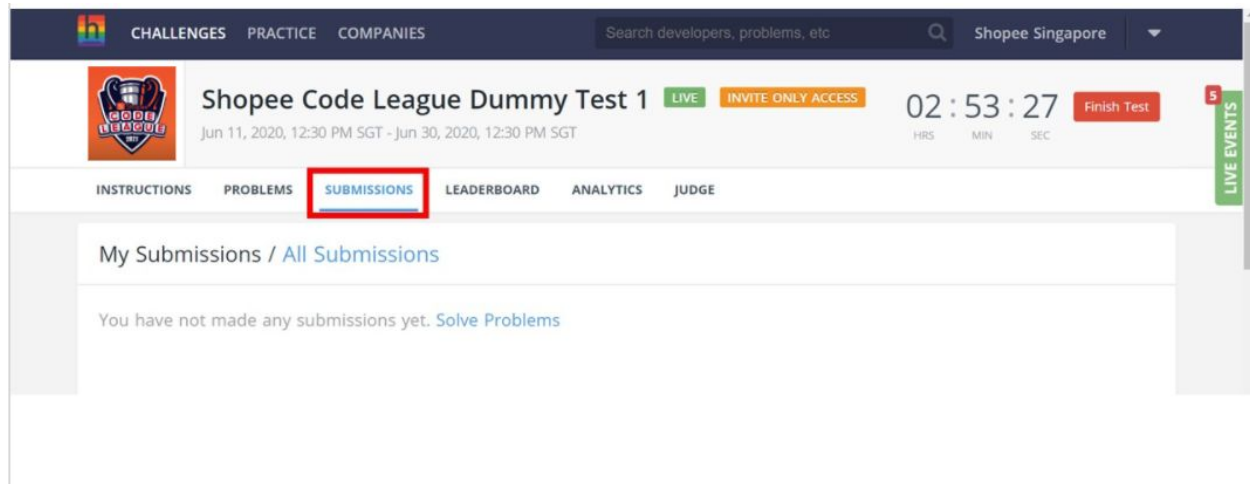
COMPILE & TEST

SUBMIT

5
LIVE EVENTS



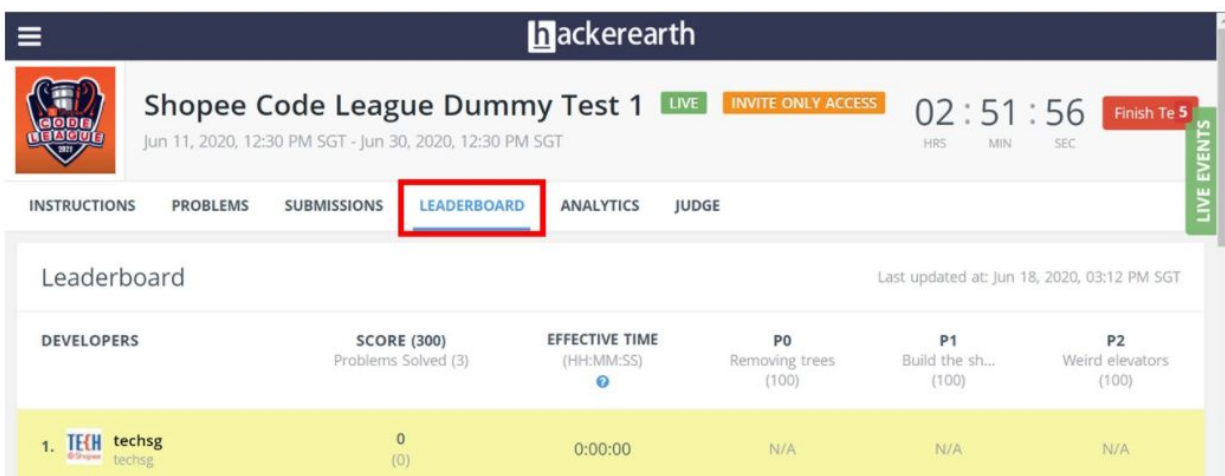
Click “Submissions” to view all your submissions.



Step 7: Leaderboard

Click “Leaderboard” to see where your team ranks against the other teams.

You will be able to see your total score, effective time, and scores for each problem statement on the leaderboard.



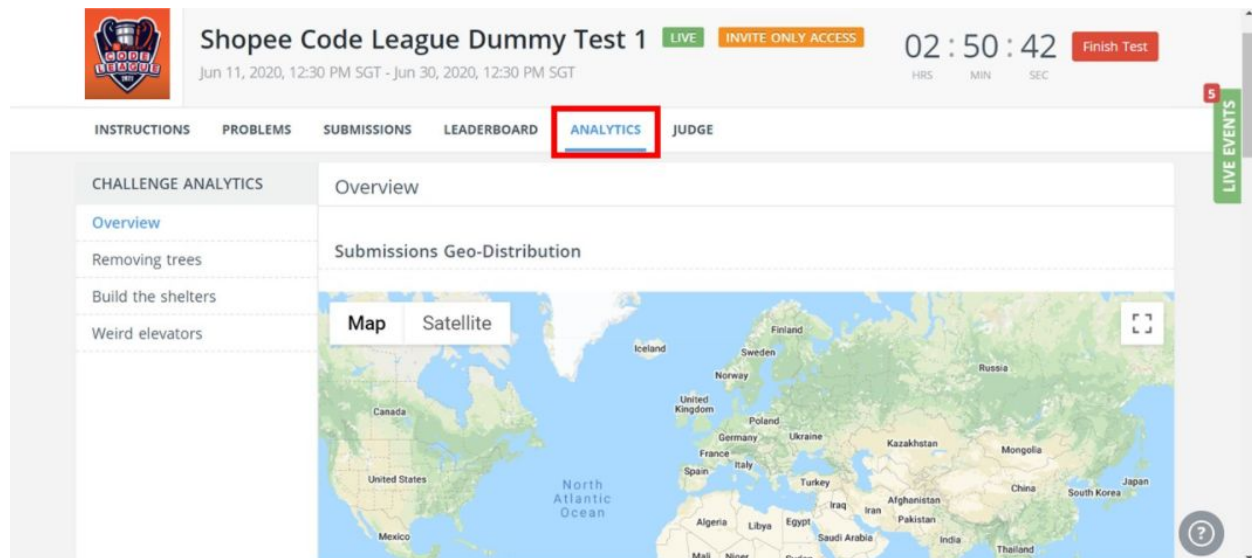
Team scoring and ranking will follow the below criteria:

- There is no partial scoring for each problem, it is either a full score or zero.
- There is no penalty time.
- Participants are ranked according to the total score. Participants who have the same total score are ranked by least effective time.
- The effective time is the total time taken to solve all the problems. The time taken for a solved problem is the time elapsed from the beginning of the challenge to the submission of the

accepted solution. There is no time added for a problem that is not correctly solved.

Step 8: Analytics

Click “Analytics” to find out where the participants are coding from!



To read up more on the programmes supported by Hackerearth, you can click “Judge” .

DEVELOPERS WIKI

Solution Guide

Judge Environment

HackerEarth Contests

College Contests

Problem Setter Guide

Bot Problem Judge

Math formatting guide

SQL Judge

Hackerearth Ratings

HackerEarth API v3

HackerEarth API v2

Judge Environment

Language Compilers

Language	Version	Flags/Notes	Max Memory Limit
Bash	gnu bash v4.3.11	Time Limit: 0.5X	256 MB
C	gcc 5.4.0	Time Limit: X Flags: -std=gnu99 -w -O2 -fomit-frame-pointer -lm	256 MB
C++	g++ 5.4.0	Time Limit: X Flags: -std=c++11 -w -O2 -fomit-frame-pointer -lm	256 MB
C++ 14	g++ 5.4.0	Time Limit: X Flags: -std=c++14 -w -O2 -fomit-frame-pointer -lm	256 MB
C++ 17	g++ 5.4.0	Time Limit: X Flags: -std=c++14 -w -O2 -fomit-frame-pointer -lm	256 MB
C#	mcs 5.4.0.201	Time Limit: 2X Flags: -unsafe+ -warn:0 Runtime: .Net 4.0	256 MB

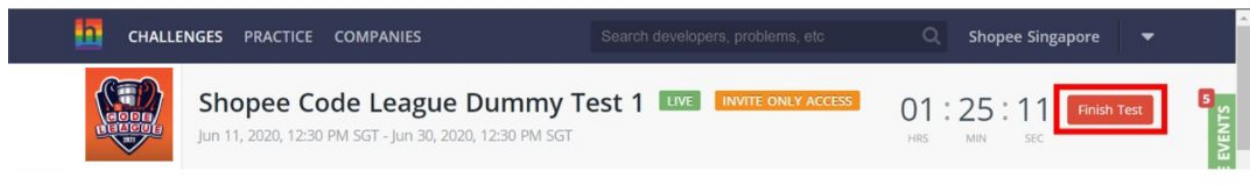
5

LIVE EVENTS

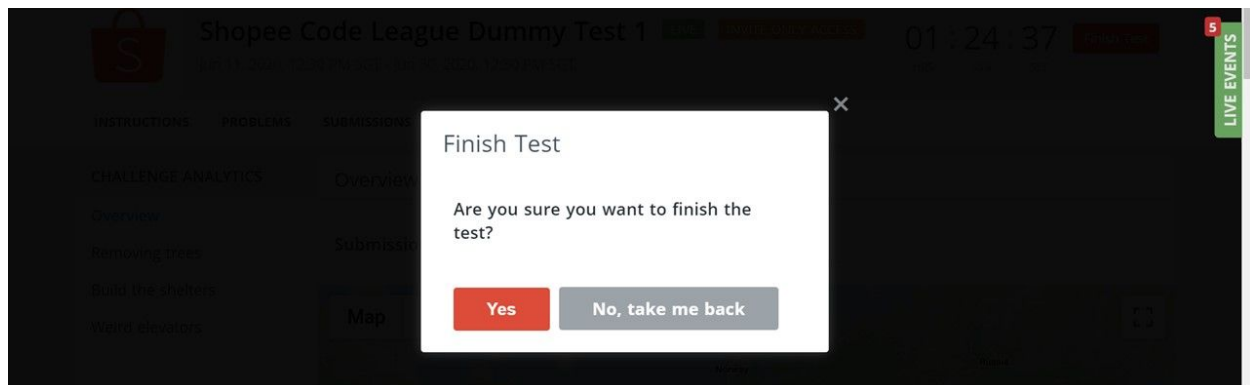
?

Step 9: End Competition

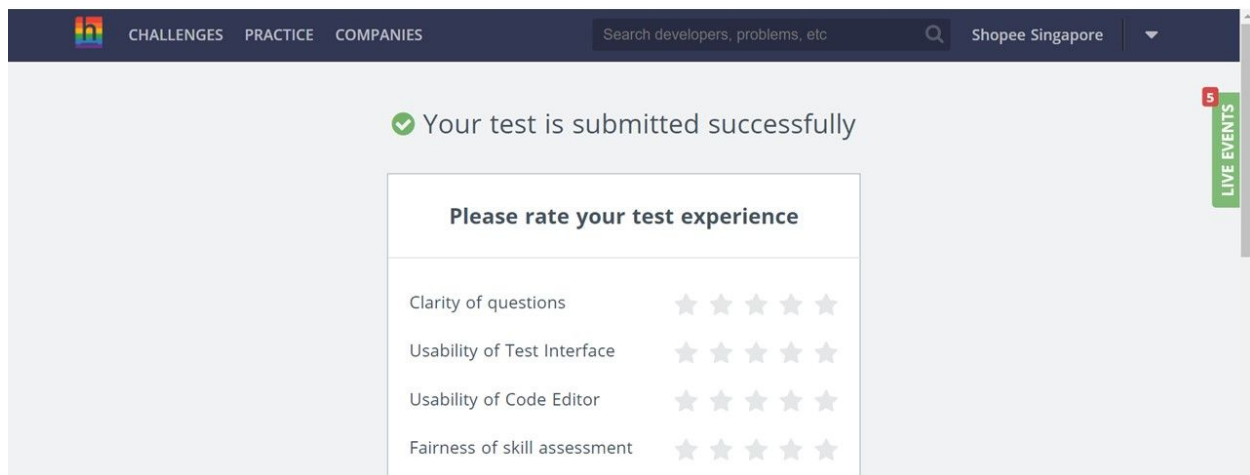
Once you are confident and ready to end the competition, please click “Finish Test”.



You will be prompted to confirm your decision.



Congratulations, your competition has been submitted successfully!



Important to take note:

1. Even if you close your browser/ are logged out of your Hackerearth account, the timer will still continue counting down.
2. Please log into your Hackerearth account to submit before the timer ends.
3. Once we have reached the competition end time, the competition will end. Even if you did not click 'Finish Test', your codes will be saved and submitted for grading.

HACKEREARTH FREQUENTLY-ASKED QUESTIONS (FAQs)

This section outlines the Frequently-Asked Questions about the Hackearth Platform. This section has been separated into the following categories:

1. [Joining Competition](#)
2. [Registration](#)
3. [Submission](#)

1. Joining Competition

Questions	Answers
How to join the competition?	The competition can only be accessed via the UNIQUE link sent to the team leader's email . If your team would like to compete in the programming competition, please assign a team leader to fill up this form by 17 March 11AM (GMT+7) / 12PM (GMT+8) .
Why do I see a "Register" instead of a "Start Now" button?	<p>If you access the invitation link before the competition launch time, you will see "Register" instead of "Start Now".</p> <p><u>Do note that the "Register" button is invalid, as this is an invite-only competition.</u></p> <p>Refresh the page when the competition is launched and you should see the 'Start Now' button.</p>

2. Registration

Questions	Answers
How do I register for Hackerearth?	<p>No registration is required. One team member from each team is to have one Hackerearth account.</p> <p>The team leader will receive a unique link for access to the competition platform.</p>
What happens if there are multiple sign-ins using 1 Hackerearth account?	<p>If another team member tries to log into the same account, a warning will be displayed on the second team member's system stating that the test is already open on another system.</p> <p>If the second team member chooses to proceed logging in, the test will end on the other system.</p>

3. Submission

Questions	Answers
How to submit the codes on the Hackerearth platform?	<p>To run and save your code, please click “Submit” at the bottom of the problem statement.</p> <p>Please note that the competition will NOT end when you click “Compile & Test” or “Submit”. You can still attempt it again.</p>
Can I run the codes on my local machine instead of Hackerearth?	Yes, you may run your codes on your local machine. However, you will have to copy your codes over to the Hackerearth platform for submission.
How many times can we submit each day on Hackerearth?	You may submit up to 200 times a day.
For the top 100 teams are we required to send the codes written or only submit the result generated?	For Hackerearth, there is no need to send in the codes since each team has to submit their codes on the platform.
I am unable to make my submission on Hackerearth. What do I do?	<p>Please email techsg@shopee.com with the email subject: Submission Issue (Your Team Name)</p> <p>Include your Team Name and members details.</p> <p>Only emails received BEFORE the deadline of the competition will be taken into consideration.</p>
How long is the competition?	The countdown will begin at 1pm (GMT+7) / 2PM (GMT+8) and you will have 3 hours or up to 4:00pm (GMT+7) / 5:00pm (GMT+8) (whichever earlier) to submit your codes.