

HKGOI Main Event Contestants' Handbook HKGOI 賽事參賽者手冊

HKGOI 2025/26



Preparation 事先準備



Preparation 事先準備

Required documents 必需文件

Hong Kong Identity Card Student ID Card 香港身分證 學生證

Substitute 替代品

Valid Hong Kong Passport 有效特區護照 Student Handbook 學生手冊

CityU Guest QR Code 香港城市大學訪客 QR Code

Required: For entering CityU campus

必需: 用於進入香港城市大學

Required supplies 必需用品

Stationery 文具

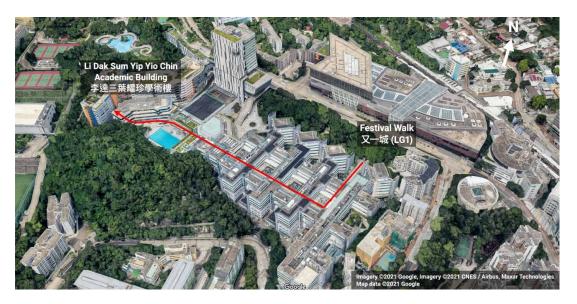




To Reporting Venue 前往報到地點



Access by Festival Walk (LG1) 經又一城 (LG1)



路途遙遠, 請預留充裕時間 The venue is far away. Please allow sufficient time for travel.



Reporting Venue 報到地點

Regardless of the assigned competition venue, all participants should report at G/F Foyer, Li Dak Sum Yip Yio Chin Academic Building.

無論獲派哪個比賽場地,所有 參賽者均須前往李達三葉耀珍 學術樓地下 (G/F) 大堂報到。





Reporting Procedure 報到程序



Reporting Procedure 報到程序

Contestants should simply wait patiently once they arrive at the reporting venue DO NOT proceed to the competition venue directly.

到達報到地點後, 參賽者只需在該處靜候,

請勿直接前往比賽地點。

When the competition venue is ready for entering, contest staff will make an announcement to direct the contestants to enter the venues. If necessary, students should use the washroom before entering the venue.

待比賽場地準備就緒後,工作人員將會作出宣佈,並指引參賽者進入場地。如有需要,參賽者應在進入比賽場地前使用洗手間。



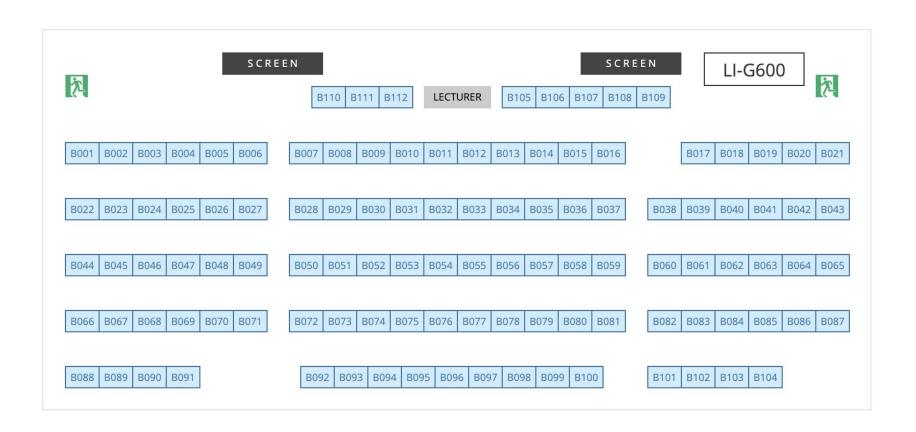
Reporting Procedure 報到程序

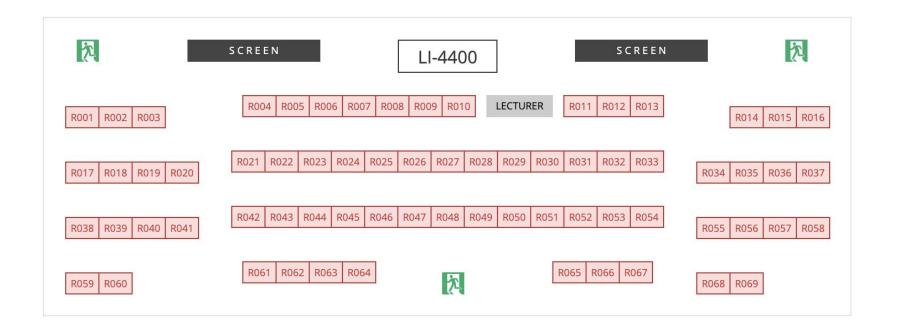
Contest venue door closes at 2:00 p.m. sharp.

Students who do not enter the competition venue by that time will be disqualified.

比賽場地大門將於下午2時正準時關上,

如屆時學生仍未進入比賽地點,將被取消資格。









Check the name and school displayed on the screen to confirm you are sitting on the correct seat. Do not touch the computer until the contest starts.

請檢查螢幕上的姓名和學校,確認您的座位無誤。比賽開始前嚴禁接觸電腦。

Welcome 歡迎



DO NOT TOUCH THE COMPUTER UNTIL THE CONTEST STARTS

比賽開始前嚴禁接觸電腦



Mobile phone and electronic devices must be off at all times 手提電話及電子裝置 必須保持關上



No paper/notes/books 不得使用自携紙張/筆記/書本



No audio devices such as headphones Do not cause the computer to produce sounds 不得使用耳機等音效裝置 不得令電腦產生聲音



No peripherals such as USB Drive before, during or after the contest 比賽前、進行中及完結後 均不得使用USB隨身碟等外設裝置



No hardware calculators 不得使用硬體計算機



Do not tamper with the monitoring and backup system 不得干擾監察及備份系統

Contestants who cheat or violate the above WILL be disqualified and banned permanently without warning.

参春者如作弊或違反以上規定將被取消資格及永久禁止参春而不作警告。

Turn off and put all unauthorized articles in your bag.

Calculators are NOT allowed. Zip up your bag and put it under the chair.

將所有違禁品關上並放入袋內, 不得使用計數機。

將袋的拉鍊關上, 然後將袋放在椅子下。









Put your HKID and Student ID card on the table.

You should only have basic stationery,

HKID, Student ID on the table.

將香港身分證及學生證放在桌上。

桌上應只有基本文具、香港身分證及學生證。



You may bring one personal keyboard and one mouse for use in the competition.

你可自備一個鍵盤及一隻滑 鼠於比賽時使用。

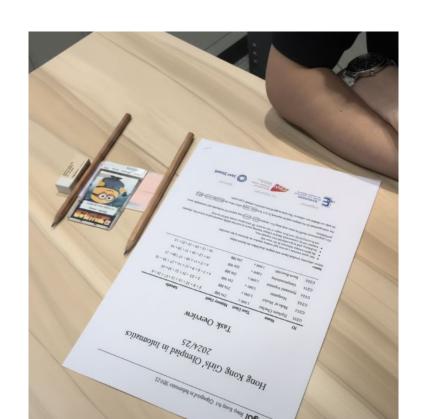
Not allowed **不可**使用:

- Wireless devices 無線鍵盤/滑鼠
- Devices that contain programmable keys
 含可編程按鍵
- Devices that require installation of drivers
 需安裝驅動程式之鍵盤/滑鼠
- Mechanical keyboards fitted with "blue" switches (or equivalent) 裝有「青軸」(或等 同)的機械鍵盤

Contestants will only receive the printed question paper in the language version selected in the nomination form.

參賽者只會收到在提名表格中選擇的語 言版本的紙本試題。

Do not touch the paper until you are told to do so 作出宣佈前不得接觸試卷。



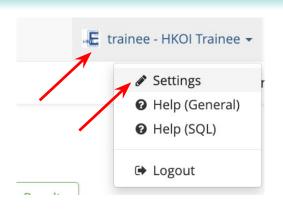


During the Contest 開考後

Settings 設定

If needed, you can change your default programming language and interface language in the "Settings" page.

如有需要,可在「設定」頁更改預設編程語言及介面語言。





Overview 綜覽

During the contest, the contest page will show the 6 contest tasks, and the score distribution of the subtasks.

比賽開始後, 比賽介面會顯示 6 題比賽題目, 及每題子任務的分數分佈。

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Diplon	na Checker	Maths or M	lusic? Na	vigation	Pyramio	dal Seq	uence	Ger	rym	nanderi	ng	Smart R	eservoi	r		
ID	Name		Max Score	Your Score					S	ubtask	5				,	Action
G251	Diploma Ch	necker	100		0/8	0/8	0/1	0/1	4	0/12	0 /	/ 17	0/24	0/6	Submit	Submission
G252	Maths or M	lusic?	100		0/5	0/10	0	/ 21		0 / 23		0/2	6	0 / 15	Submit	Submission
G253	Navigation		100		0/4	0/5	0/6	0/9	0 /	/11 0	/ 14	0/17	0/16	0 / 18	Submit	Submission
G254	Pyramidal S	Sequence	100		0/8	0/7	0/1	0/1	0	0 / 17		0/20	0	/ 27	Submit	Submission
G255	Gerrymano	lering	100		0 / 10	0/	15	0/16		0/2	l	0/2	24	0/14	Submit	Submission
G256	Smart Rese	rvoir	100		0/1	6 0	/ 13	0 / 15		0/	23	0	/ 21	0 / 12	Submit	Submission

Overview 綜覽

Click the task title to enter the task statement page. 按下題目名稱進入題目頁面。

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Diplon	na Checker	Maths or M	usic? N	avigation	Pyramio	dai Seq	luence	Gerr	ymand	ering	Smart F	Reservoii			
ID	Name		Max Score	Your Score					Subta	sks				,	Action
G251	Diploma Ch	necker	100		0/8	0/8	0 / 11	0 / 1	4 0/	12 0	/ 17	0/24	0/6	Submit	Submissions
G252	Maths or M	lusic?	100		0/5	0/10	0	/ 21	0 /	23	0/2	26	0/15	Submit	Submissions
5253	Navigation		100		0/4	0/5	0/6	0/9	0/11	0 / 14	0/17	0/16	0 / 18	Submit	Submissions
G254	Pyramidal S	Sequence	100		0/8	0/7	0 / 11	0 / 10	0 /	17	0/20	0	/ 27	Submit	Submissions
3255	Gerrymano	dering	100		0 / 10	0/	15	0/16	0 .	/ 21	0/2	24	0/14	Submit	Submissions
256	Smart Rese	ervoir	100		0/1	6 0	/ 13	0 / 15		0 / 23	0	/ 21	0/12	Submit	Submissions

2024-11-23 14:30:00 - 2024-11-23 17:30:00 | Duration: 3 h | Questions / Appouncements | Submissions

Task 題目

In general, a coding task requires the solution code to be correct and efficient (runs within the time/memory limit).

一般來說,編程題目要求解答程式碼必須正確且有效率(即在時間與記憶體限制內執行完成)。 Entry level tasks focus on the correctness of the code, while harder tasks test on both. 較淺的題目通常著重程式碼的正確性,而較難的題目則會同時考驗這兩點。

Diploma Checker G251 Time Limit: 1.000 s Memory Limit: 256 MB Submit Submissions The International Baccal greate Diploma Programme (IBDP) is a two-year educational programme for high school students. All students enrolled in the IBDP must complete the following: • 6 subjects, with each subject contributing between 1 and 7 points (inclusive) towards their final score, and

: (trimmed 縮略)

for the 6 subjects she took, while her grades in TOK and EE are X and Y respectively. Can you determine whether Alice passed the IBDP or not, and if she passed, what is her total score?

the core component, contributing between 0 and 3 points (inclusive) to their final score.

INPUT

The input consists of 8 lines in total.

The i-th of the first 6 lines (1 $\leq i \leq$ 6) contains a single integer A_{ii} denoting Alice's score for the i-th subject.

The next line contains a single character X, denoting Alice's TOK grade.

The next line contains a single character Y, denoting Alice's EE grade.

OUTPUT

If Alice failed the IBDP, output Fail on the first and only line.

Otherwise, output Pass on the first line. Then, output Alice's total score on the second line.

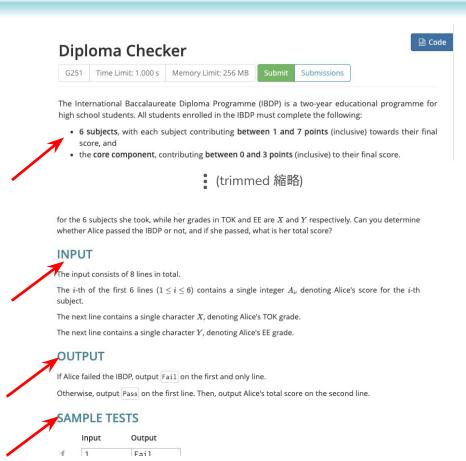
SAMPLE TESTS

	Input	Output	
1	1	Fail	

Task 題目

Usually, a task consists of these part. 通常. 題目包含以下部分

- Statement 題目描述
- Input 輸入
- Output 輸出
- Sample Tests 樣例
- Subtask Constraints 子任務限制



Task 題目

No need to validate inputs. The input always satisfy the specified input format and constraints. 無需驗證輸入。輸入必定符合列明的輸入格式與限制。

Unless specified by the task, do **NOT** output prompts (e.g., "Please enter X and Y:")

除非題目要求, **不要**輸出提示訊息(例如:"請輸入X和Y:")

Your program's output will be automatically fixed for output format. Trailing spaces in each line will be removed and an end-of-line character will be added to the end of the output if not present.

程序的輸出格式會自動修正。每行最尾的連續的空格會被刪除,及在輸出最後補上換行符(如沒有)



The International Baccalaureate Diploma Programme (IBDP) is a two-year educational programme to high school students. All students enrolled in the IBDP must complete the following:

- 6 subjects, with each subject contributing between 1 and 7 points (inclusive) towards their final score, and
- the core component, contributing between 0 and 3 points (inclusive) to their final score.

: (trimmed 縮略)

for the 6 subjects she took, while her grades in TOK and EE are X and Y respectively. Can you determine whether Alice passed the IBDP or not, and if she passed, what is her total score?

INPUT

The input consists of 8 lines in total.

The i-th of the first 6 lines (1 $\leq i \leq$ 6) contains a single integer A_{ii} denoting Alice's score for the i-th subject.

The next line contains a single character X, denoting Alice's TOK grade.

The next line contains a single character Y, denoting Alice's EE grade.

OUTPUT

If Alice failed the IBDP, output Fail on the first and only line.

Otherwise, output Pass on the first line. Then, output Alice's total score on the second line.

SAMPLE TESTS

Input	Output	
1	Fail	

Subtasks 子任務

Each task is further divided into subtasks, with additional constraints. Subtask of harder task could be easier than the full task of entry tasks.

題目設有子任務,帶有額外限制。難題的子任務可比入門級的完整題目簡單。

To score points for a subtask, contestants' programs must be correct for all test cases in that subtask.

要獲得子任務的分數,參賽者的程式必須對該子任務中的所有測試數據都正確。

SUBTASKS

For all cases:

 $1 \le A_1, A_2, A_3, A_4, A_5, A_6 \le 7$

X and Y are one of the following characters: A, B, C, D, E.

Points Constraints

1 8
$$A_1 = A_2 = A_3 = A_4 = A_5 = A_6 = 1$$

 $X = Y = D$

2 8
$$A_1 = A_2 = A_3 = A_4 = A_5 = A_6 = 7$$

 $X = Y = D$

$$egin{array}{lll} 3 & & 11 & & 2 \leq A_1 \leq 7 \ & & A_2 = A_3 = A_4 = A_5 = A_6 = 7 \ & & X = Y = |{\sf D}| \end{array}$$

4 14 It is guaranteed that the first line of the output is Pass
$$X = Y = D$$

5 12
$$2 \le A_1, A_2, A_3, A_4, A_5, A_6 \le 7$$

 $X = Y = \boxed{D}$

$$6 17 X = Y = D$$

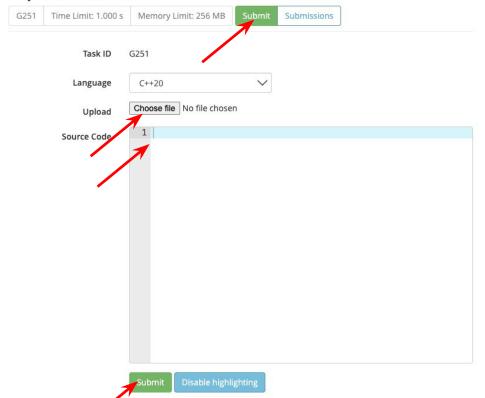
Submit 提交

Contestants can use the software installed in the virtual machine (e.g. Visual Studio Code) to code their solution.

參賽者可以使用安裝在虛擬主機內的軟件 (如 Visual Studio Code)來編寫程式。

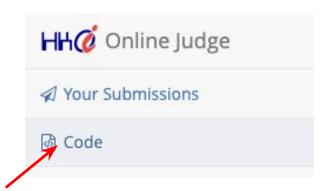
In the submit page, contestants can either upload the source code or paste the source code to the page.
在提交頁面中,參賽者可以選擇上傳原始碼檔案,或直接將原始碼貼至頁面上。

Diploma Checker



There is also a built-in "Code" IDE in the Judge system. Contestants can access it on the sidebar, or open the IDE per task within the task page.

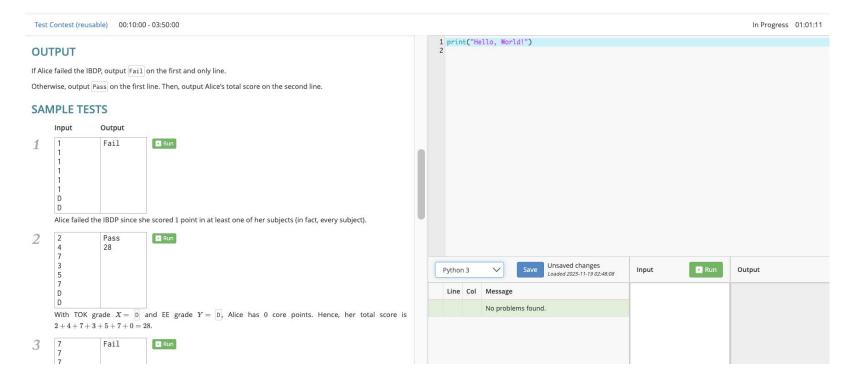
評測系統中也有內建的「Code」IDE。參賽者可以透過側邊欄進入,或是直接在題目頁面中針對個別題目開啟 IDE。





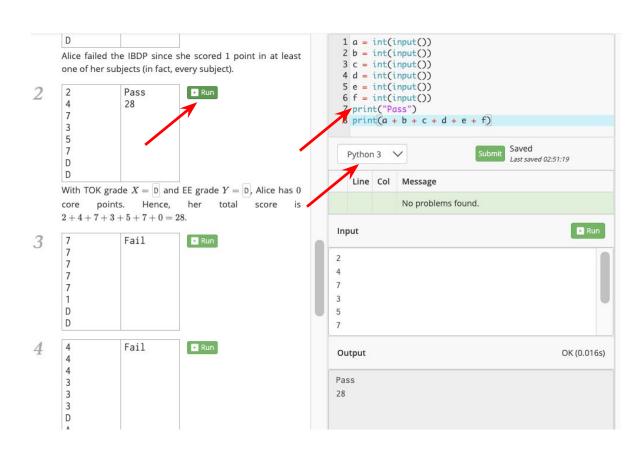
The International Baccalaureate Diploma Programme (IBDP) is a two-year educational programme for high school students. All students enrolled in the IBDP must complete the following:

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- . the core component, contributing between 0 and 3 points (inclusive) to their final score.



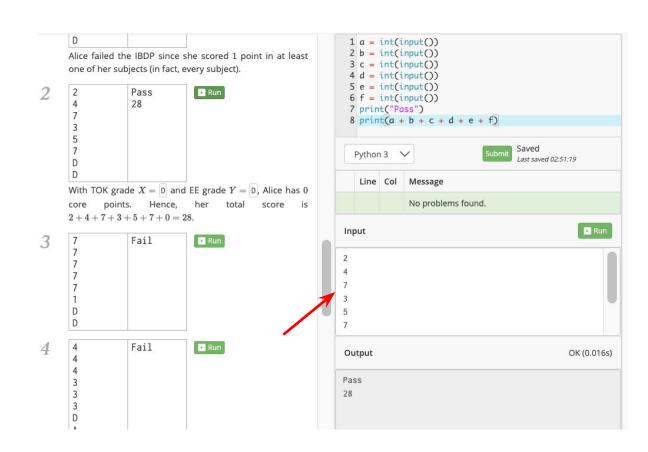
After coding the solution in the "Code" IDE, contestant can directly test the program with samples via the "Run" button.

在「Code」IDE 中編寫完解答後, 參賽者可以按下「執行」按鈕, 直接使用範例測試程式。



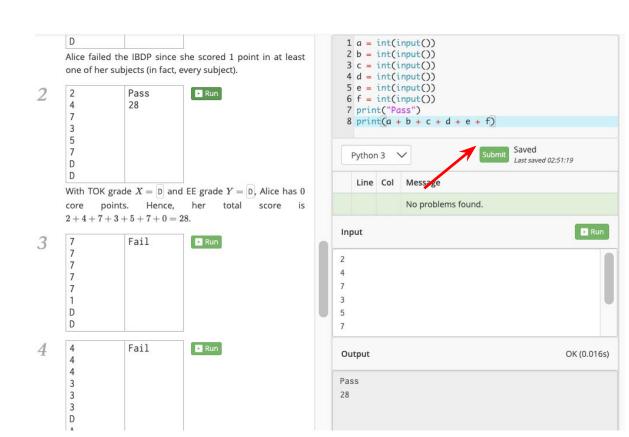
Contestants can also test their programs with own test cases.

參賽者也可以使用自訂的測 試數據來測試程式。



Pressing the "Submit" button would directly submit the code to be judged.

按下「提交」按鈕將直接送出程式碼進行評測。



Judge Results 評測結果

After judging, contestants will be redirected to a judge results page, with the summary on the scores gained from each subtasks.

評測完成後,畫面將跳轉至評測結果頁面,並顯示在各子任務的得分總結。

Judge Results

Subtask	Test	Result	Score
1	1	Wrong Answer	
2	1	Accepted	100.000
3	Including	tests in Subtask 2	100.000
3		Accepted	100.000
4	Including	tests in Subtask 3	100.000
4	19	Accepted	100.000
5	Including	tests in Subtask 4	100.00
5		Wrong Answer	
6	Including	tests in Subtask 1	0.000
6	Including	tests in Subtask 5	0.000
6	Skipped		
7	Including	tests in Subtask 4	100.000
7	1	Wrong Answer	
8	Including	tests in Subtask 6	0.000
8	Including	tests in Subtask 7	0.000
8	Skipped		

Summary

	Subtask	Prev	This	Score	Max Score
	1	0	0	0	8
	2	0	8	8	8
	3	0	11	11	11
	4	0	14	14	14
1	5	0	0	0	12
	6	0	0	0	17
	7	0	0	0	24
	8	0	0	0	6
	Tota	ı	33	33	100

Source Code (Python 3)

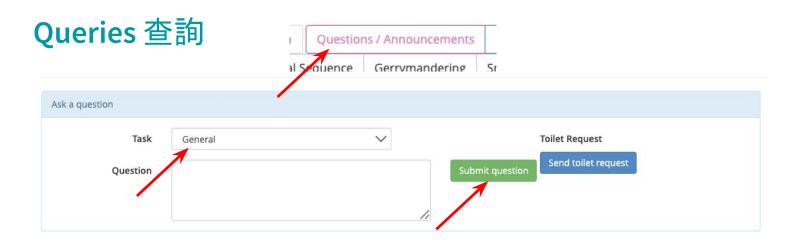
Share / Details +

Judge Results 評測結果

ID	Name	Max Your Score Subtasks								Action					
251	Diploma Checker	100	33	0/8	8/	8 11/	11	14/1	1 0/	12	0/17	0/24	0/6	Submit	Submissions
52	Maths or Music?	100	1	0/5	0/	10	0/2	1	0/2	3	0/	26	0 / 15	Submit	Submissions
3	Navigation	108		0/4	81	5 0/6	5 0	/9 0	/ 11	0 / 14	0/17	0 / 16	0 / 18	Submit	Submissions
į	Pyramidal Sequence	100		0/8	0/	7 0/1	11	0/10	0/	7	0/20	0	27	Submit	Submissions
	Gerrymandering	100		0 / 10	0	/ 15	0 /	16	0/	21	0 /	24	0/14	Submit	Submissions
è	Smart Reservoir	100		0/1	6	0 / 13	C	/ 15	0	/ 23	(/21	0 / 12	Submit	Submissions

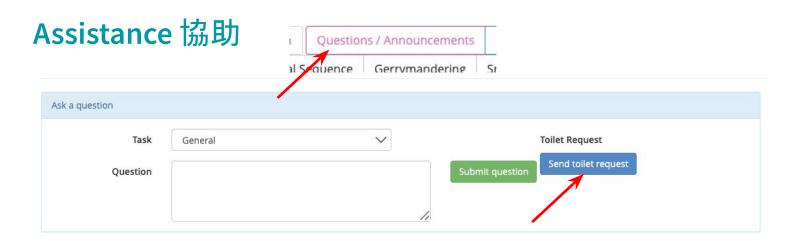
The current results will be updated on the contest front page overview. You can also read your previous submissions in the "Submissions" tab. Your results are not visible to other contestants during the contest.

你目前的成績將會更新至比賽首頁的總覽中。你也可以在「您的提交」分頁查看你過去的提交紀錄。在比賽期間,其他參賽者無法看到你的成績。



During the contest, contestants are allowed to seek clarifications by using the Questions / Announcements feature. When the task statement indeed contains an error or critical ambiguity, the clarification will be announced to all contestants.

比賽時, 參賽者可透過「問答」功能, 要求大會裁判澄清題目的文字描述。當題目說明確實包含錯誤或嚴重歧義時, 將向所有參賽者公佈澄清內容。



If contestants wish to go to the toilet during the test, they must make a request using the Questions / Announcements feature. Contestants may only go to the toilet upon approval by the invigilators. It will be regarded as cheating if you leave the seat without the invigilator's approval.

如參賽者欲前往洗手間,他們必須先用「問答」功能提出要求。獲監考員批准後,方可前往洗手間。未經批准擅自離開座位將視為作弊行為。

Assistance 協助

In case of technical problems or emergencies (like the workstation disconnecting or freezing) where you cannot use the Questions / Announcements feature, please raise your hand for an invigilator's help and do not try to fix it on your own.

如遇到技術問題或突發情況(例如, 脫離虛擬主機、電腦無反應等), 且不能使用「問答」功能, 請舉手尋求監考員協助, 請勿自行處理。



End of Contest 比賽完結後

End of Contest 比賽完結後

Please remain seated quietly and wait for the judging to finish. 請在座位靜候完成評測。

When instructed, please check your score again. If you have any objection, you should raise it immediately. They will not be handled after you leave the venue. 收到指示後, 請檢查你的分數。如有異議應當場提出, 離開試場後不會再接受異議。

End of Contest 比賽完結後

When instructed, pack all your belongings including the question papers and rough work sheets. Leave the room orderly.

收到指示後收拾個人物品,包括試卷及草稿紙,然後有序離開。

End of Contest 比賽完結後

The competition results will be released on the official HKGOI website (hkoi.org/hkgoi) on the day of the competition. You may also log in to the Online Judge System at judge.hkoi.org to view your submitted code, detailed judging results, and the rankings and scores of all participants.

比賽結果將於比賽即日內於 HKGOI 官方網站 (hkoi.org/hkgoi) 公佈。你亦可以登入網上評測系統 judge.hkoi.org 查閱你提交的程式碼、詳細評測結果以及全部參賽者的名次及分數。

Please note that the temporary practice accounts are valid until 12:00 midnight tonight. Please log in to review the information before the accounts expire.

請注意, 臨時練習帳戶有效期到比賽當晚 12 時為止, 請在限期前登入查閱。