







International Coding Elite Challenge 2023-24

CodeCombat HK-MO-TW Competition

Teachers' Briefing Session (Primary Division)





Strategic Partners CODE COMBAT







Sponsorship





Competition **Secretariat**



Media Partner



Supporting **Organizations**















Overview



- 1. Past Competition
- 2. Competition Platform CodeCombat
- 3. Competition
- 4. Leaderboard Mechanism
- 5. Prizes
- 6. Why should the students join the competition?
- 7. Application Method
- 8. FAQ

Overview



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ICE Challenge 2023 Review:





3,000+ Students from Hong Kong, Macau & Taiwan



International Coding Elite Challenge



100+ Primary and Secondary Schools



200,000+ lines of code





ICE Challenge 2023 Highlights:



Overview



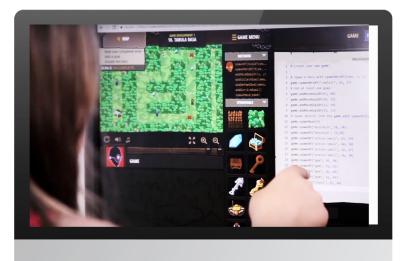
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Competition Platform - CodeCombat

- A gamified, text-based coding platform
- Developed in the US and endorsed by the College Board
- Widespread of use for education
- No. of learners: 20 million
- No. of teachers using the platform: 82,000
- No. of countries users are from: 190
- Extensive programming language
- Python
- JavaScript
- C++
- Bilingual support for English and Traditional Chinese





Modules









Computer Science 1-

Game Development 1-3 Web Development 1-2

Python JavaScript C++ Python JavaScript JavaScript jQuery HTML/CSS

Over 370 levels in total!

Computer Science 1-3 Learning Outcomes



Introduction to Computer Science

- Basic Syntax
- Arguments
- Strings
- While Loops
- Variables



Computer Science 2

- Coordinate Pairs
- If Statements
- If/Else Statements
- Conditional If Statements
- If/Else If Statements
- Nested If Statements
- Parameters and Multiple Parameters
- Event Handlers
- Spawn Event
- Event Concurrency



Computer Science 3

- String Concatenation
- Arithmetic
- Coordinate Property
- Boolean Equality and Inequality
- Return Statement
- Boolean Or/And
- Coordinate Math and Comparison
- Proportion Math
- Break and Continue Statements
- Event Data

Computer Science 4-6 Learning Outcomes



Computer Science 4

- Object Literals
- For Loops
- Function Definitions
- Drawing
- Modulo
- Boolean Logics
- While Conditionals
- Arrays and Indexes
- Nested While Loop
- Optimization

Computer Science 5

- Modulo in Arrays
- Predefined Functions
- Search
- For Loops with Non-1 Step
- Array Push
- Nested Fors as Grid
- Nested Arrays as Grid
- 2D Array
- For Loop Array Access
- Geometry

Computer Science 6

- Variables
- Advanced Arrays
- Break Statements
- Object Literals
- Parameters
- Algorithms
- Queues and FIFO structure
- Vectors
- Math Library Operations
- Recursion



A Unique Mix of Learning and Competing



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Competition - General





Divisions

- Primary Division
- Secondary Division



Regions

- Hong Kong
 (Kowloon East, Kowloon West, New Territories East, New Territories West, Hong Kong Island & Outlying Islands)
- Macau
- Taiwan

Competition - General





Period

- Screening Round: **14 Days**
- Grand Final: 1 Day



Mode

- Screening Round: Online
- Grand Final: Offline

^{*}Finalist from Taiwan will join remotely





Primary Division





< ICE FOUNDATION >

Competition - Screening Round

Difficulty Level: Computer Science 1



Rank automatically once code is submitted

		Red Leaderboard				
		Score	Name	When		•
ě	1	9,660	Shininglice	4 months ago	Fight!	
r#	2	7,745	rrrgx	4 months ago	Fight!	
4	3	6,711	HTYCCCS023	4 months ago	Fight!	
4	4	6,518	Daniel Walters	4 months ago	Fight!	
ě.	5	6,139	wong9d35	4 months ago	Fight!	
4	6	6,092	Daniel Sin	4 months ago	Fight!	
7	7	6,024	cqmasuyi	5 months ago	Fight!	
4	8	5,956	cqyanhaoming	5 months ago	Fight!	
4	9	5,901	Rush_iam	5 months ago	Fight!	
4	10	5,771	steven bs	4 months ago	Fight!	
r#	11	5,749	cqshensibo	5 months ago	Fight!	
4	12	5,727	silversawfish	4 months ago	Fight!	
r i	13	5,700	cqhongbingcheng	5 months ago	Fight!	
re.	14	5,683	cqwuzetao	4 months ago	Fight!	

Competition - Quota



Top 150 : Finalists

1 Screening Round

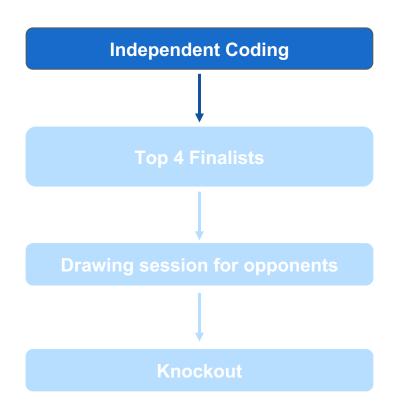


2 Grand Final





Competition - Grand Final

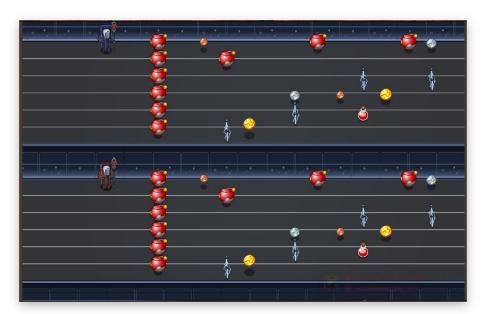






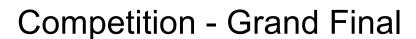
Competition - Grand Final

Difficulty Level: Computer Science 3



Rank automatically once code is submitted

		Red Leaderboard				
		Score	Name	When		•
ě	1	9,660	Shininglice	4 months ago	Fight!	
ě	2	7,745	rrrgx	4 months ago	Fight!	
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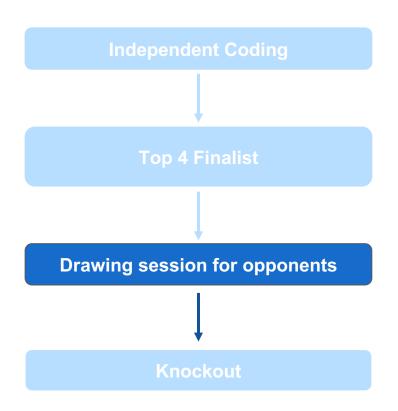
Congratulations!

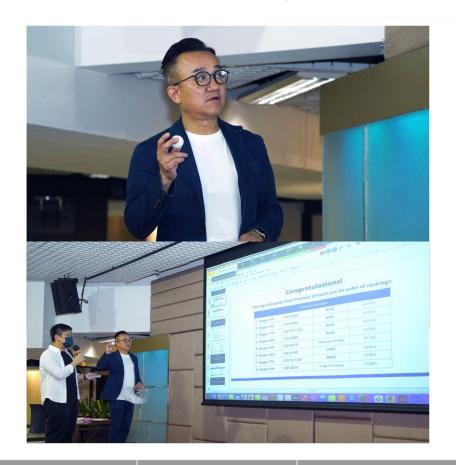
The top 4 finalists from Primary division are (in order of ranking):

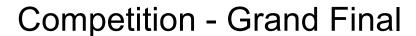
Primary Division					
1. Region	ICE No.	NAME	XX%		
2. Region	ICE No.	NAME	XX%		
3. Region	ICE No.	NAME	XX%		
4. Region	ICE No.	NAME	XX%		



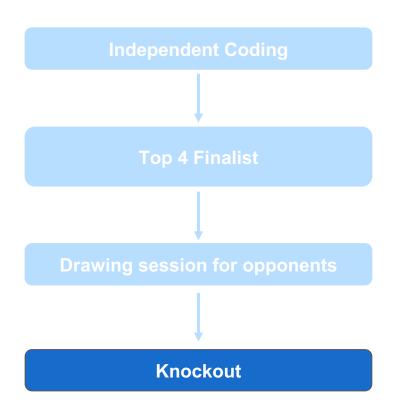
Competition - Grand Final

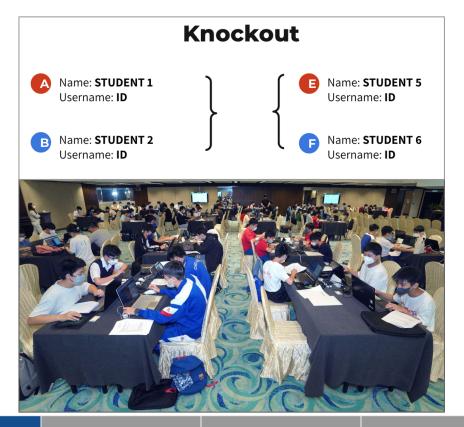












AR Treasure Hunt



For 150 Finalists







Application

Screening Round

Grand Final

ICE Alumni

Ace of Coders

Code Quest

Relaxation Session

< ICE FOUNDATION >

- For 150 Finalists







Application

Screening Round

Grand Final

ICE Alumni

Ace of Coders

Code Quest



Sharing Session & Panel Discussion

For Teachers and Parents







Award Ceremony

Release of results & Award presentation



ICE Alumni



All nominated students will be promoted to be ICE Alumni

Upcoming Events

- A complimentary tour & workshop at **Age at Home**
- Theme: Gerontechnology
- First-come-first-served basis
- Details will be announced soon
- Related link: https://ageathome.hk/zh/

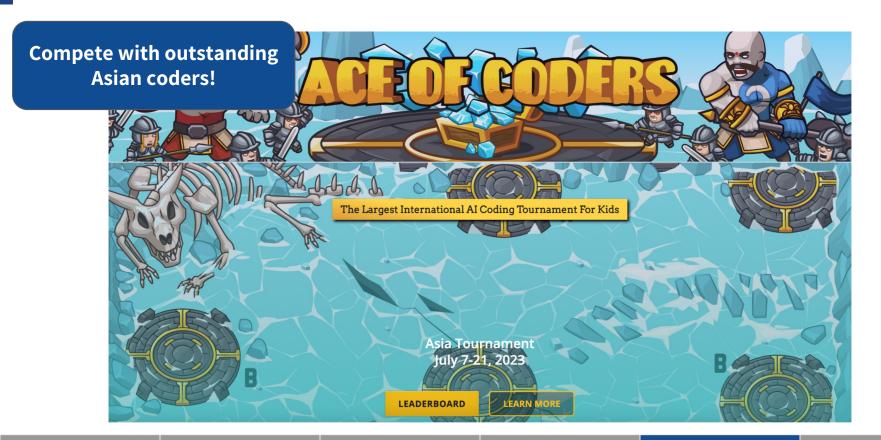








Competition - Asian Game: Ace of Coders



Application

Screening Round

Grand Final

ICE Alumni

Ace of Coders



Competition - Global Final: Code Quest



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Leaderboard Mechanism



^{*}Links will be announced prior to the competition

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Prizes





Certificate



Trophy



CodeCombat Full License



Sponsored Items



Direct entry to Global Competitions







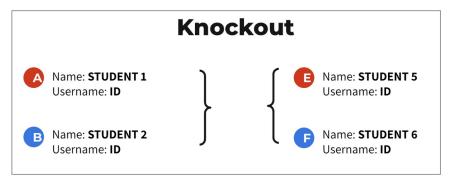
Awards - Screening Round

Award	Prizes
Top 150	Outstanding Coder (<i>Printed</i> Certificate)
Others	Certificate of Participation (<i>Digital</i> Certificate)
The Most Participating Teachers Appreciation Awards (5 per division)	

Awards - Grand Final



Award	Prizes			
HK-MO-TW Overall				
Champion	Trophy + Printed Certificate + CS1-6 license (duration of 3 months) + *Eligibility to participate in CodeQuest			
1st Runner-up	Trophy + Printed Certificate + CS1-6 license (duration of 3 months) + *Eligibility to participate in CodeQuest			
2nd Runner-up	Trophy + Printed Certificate + CS1-6 license (duration of 3 months) + *Eligibility to participate in CodeQuest			



Awards for **HK-MO-TW Overall** will be based on the **knockout results**.

Awards - Grand Final



Congratulations!

The top 4 finalists from Primary division are (in order of ranking):

Primary Division					
1. Region	ICE No.	NAME	XX%		
2. Region	ICE No.	NAME	XX%		
3. Region	ICE No.	NAME	XX%		
4. Region	ICE No.	NAME	XX%		

Awards for Hong Kong/Macau/Taiwan are based on the Leaderboard ranking.

Awards - Grand Final



Award	Prizes			
Hong Kong				
Champion	Trophy + Printed Certificate + CS1-6 license (duration of 3 months) + *Eligibility to participate in CodeQuest + 4-hour Yacht Charter*			
1st Runner-up	Trophy + Printed Certificate + CS1-6 license (duration of 3 months) + *Eligibility to participate in CodeQuest			
2nd Runner-up	Trophy + Printed Certificate + CS1-6 license (duration of 3 months) + *Eligibility to participate in CodeQuest			







* Italian Yacht (Azimut 62FT) sponsored by Hong Kong Yachts Charter (HKYC)

Awards - Grand Final



Award	Prizes				
Macau / Taiwan					
Champion	Trophy + Printed Certificate + CS1-6 license (duration of 3 months) + *Eligibility to participate in CodeQuest				
1st Runner-up	Trophy + Printed Certificate + CS1-6 license (duration of 3 months) + *Eligibility to participate in CodeQuest				
2nd Runner-up	Trophy + Printed Certificate + CS1-6 license (duration of 3 months) + *Eligibility to participate in CodeQuest				
Kowloon East/ Kowloon West/ New Territories East/ New Territories West/Hong Kong Island & Outlying Islands					
Champion	Trophy + Printed Certificate + CS1-6 license (duration of 3 months) + *Eligibility to participate in CodeQuest				
1st Runner-up	Trophy + Printed Certificate + CS1-6 license (duration of 3 months) + *Eligibility to participate in CodeQuest				
2nd Runner-up	Trophy + Printed Certificate + CS1-6 license (duration of 3 months) + *Eligibility to participate in CodeQuest				

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Why should the students join the competition?



Learn more about the fundamentals and advanced concepts of coding

Every step of the competition is built for learning. From our briefing seminar, student workshop, license accesses through to exchange with professors. We hope to educate and inspire students.



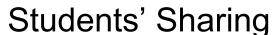
High Flexibility

Students can join the screening round anytime within the competition period.



Opportunity to represent Hong Kong/Macau/Taiwan in international competitions

Coding opens doors. This competition is no exception, through demonstrating competency and ability, students will open up new opportunities to compete on a global scale.





ICE Challenge 2023 CodeCombat Grand Final (Primary Division)

Champion: Lau Pak Sun - Hong Kong & Macau Lutheran Church Primary School



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Overview



Application Method Primary Division

Application Method

< ICE FOUNDATION >

Application period:

Application opens NOW!

Application closes on 7 Oct 2023 (Sat) 6:00pm (GMT+8)

Students' Application Form

https://forms.gle/SKSLazd3B4acxebB7

Where can I find the application form?

- Scan the QR code on the right
- 2. Competition Website: https://icefoundation.io/ice-challenge-2023-24/
- 3. Upcoming eDM from Caprikon Education (Whitelist: events@caprikon.education)
- ICE Foundation's / Caprikon Education's Facebook / IG / LinkedIn Page



Teachers' / Supporting Org.
Application Form

https://forms.gle/EQadSeFvVLC7gzHU7

Application



Application form for <u>Teachers & Supporting Org.</u>



老師/支持機構 登記表 | ICE Challenge 國際編程精英挑戰賽2023-24 CodeCombat 港澳台挑戰賽 小學組

這次比賽主要分為兩個組別,分別為中學組及小學組競賽,而香港的學生亦會再按學校所屬區份競逐獎項(九龍東、九龍西、新界東、新界西和香港島及離島),希望令三地學生能夠有更多機會深入交流編程心得。同時我們亦會與各慈善團體合作,一方面鼓勵同學們關注時事和從事義工服務,另一方面推動更多有需要的學生參與活動和提升編程技巧。同時,比賽亦首次增設最踴躍參與教師感謝獎,頒予提名最多學生的首五位小學老師。

CodeCombat 港澳台挑戰賽(小學組)

報名:2023年9月1日(五)至10月7日(六) 教師簡介會:2023年9月14日(四)

初賽: 2023年10月21日 (六) -11月3日 (五)

決賽:2023年12月

Application form for **Each Student**



學生報名表 | ICE Challenge 國際編程精英 挑戰賽2023-24 CodeCombat 港澳台挑戰 賽 (小學組)

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CodeCombat HK-MO-TW Challenge (Primary Division)

Application: Sep 1, 2023 (Fri) to Oct 7, 2023 (Sat)

Teachers' Briefing: Sep 14, 2023 (Thurs)

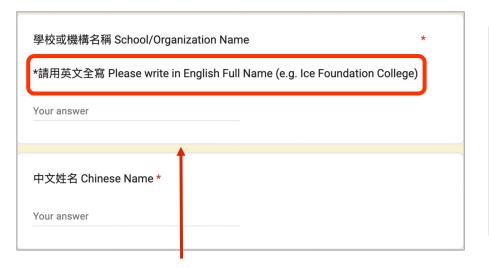
Screening Round: Oct 21, 2023 (Sat) to Nov 3, 2023 (Fri)

Grand Final: Dec 2023

重要提醒 Important Reminders:

- 老師可提名最多20位學生參與比賽。建議提名對編程有興趣的學生參與。
 Teachers may nominate up to 20 students to participate in the competition. It is recommended that students have an interest in coding.
- 主辦單位將根據報名表格所提供的聯絡資料作日後發放比賽資訊用途。 Email is the primary communication channel for the competition.
- 遞交報名表後,任何資料更改必須直接聯絡比賽大會秘書處 啟瀚科技教育。
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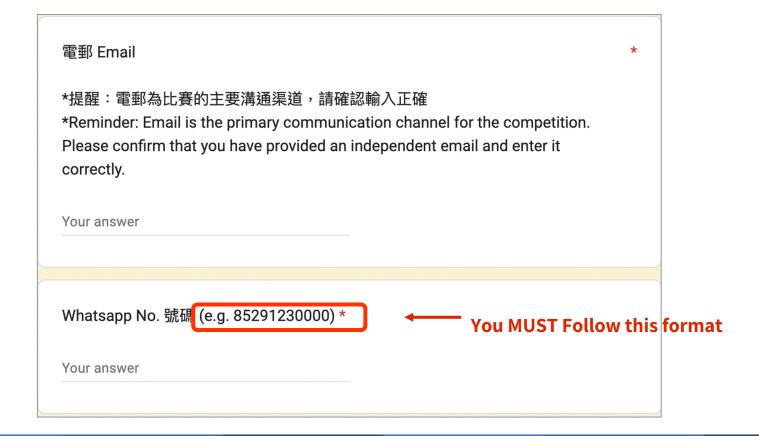




*You MUST Follow this format

*You MUST follow this format and write in English Full Name









學生報名表 | ICE Challenge 國際編程精英 挑戰賽2023-24 CodeCombat 港澳台挑戰 賽 (小學組)

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Grand Final: Dec 2023

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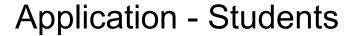
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學校名稱 School Name	*
*請用英文全寫 Please write in English Full Name (e.g. Ice Foun	dation College)
Your answer	
支持機構名稱 (如有) Organization Name (If any)	
Your answer	

*You MUST follow this format and write in English Full Name

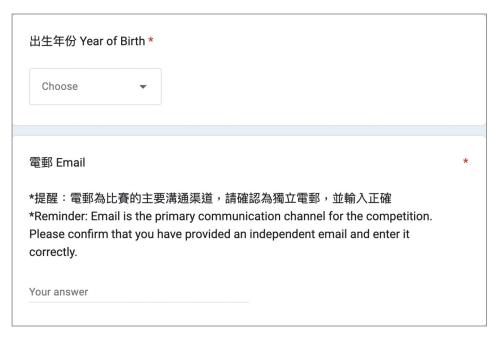
學校地區 School's Region *可參閱以下網頁 You can refer to the following link: https://www.edb.gov.hk/tc/student-parents/sch-info/sch-search/schlist-bydistrict/index.html 九龍東 (九龍城 觀塘 西貢 黃大仙) Kowloon East 九龍西 (深水埗 油尖旺) Kowloon West 新界東 (北區 沙田 大埔) New Territories East 新界西 (葵青 荃灣 屯門 元朗) New Territories West 香港島及離島 Hong Kong Island & Outlying Islands 澳門 Macau





中文姓名 Chinese Name	*	
*提醒:請確認輸入正確 *Reminder: Please confirm that your input is correc	ct.	
Your answer		
英文姓名 English Name (e.g. Chan Tai Man, Peter) You MUS	T Follow	this format
*提醒:登記姓名將用作製作證書,請確認輸入正確 *Reminder: The name will be used for certificate production. Please confirm your input is correct.	n that	
Your answer		





*Students'/parents' email
(Please make sure to check this email)

*It should not be the same as teachers' email



You MUST Follow this format



提交此表格代表本人同意比賽大會秘書處啟瀚科技教育的私隱條款。 I confirm that understand and agree to the privacy policy of the competition secretariat Caprikon Education. https://caprikon.education/privacy-policy/ 明白 Understand Submit Page 1 of 1 Clear form





1. Nomination by school:

Each school can nominate up to <u>20</u> students for <u>each</u> division

1. Nomination by supporting organisation:

Each partnering organisation can nominate up to <u>20</u> students for <u>each</u> division

1. Students *MUST NOT* change their username (ICE no.) during the competition



Overview



- 1. Past Competition
- 2. Competition Platform CodeCombat
- 3. Competition
- 4. Leaderboard Mechanism
- 5. Prizes
- 6. Why should the students join the competition?
- 7. Application Method
- 8. FAQ



FAQ Session







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Competition Secretariat



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