

YTP

International Program

YTP, Young Turing Program, is a social good initiative of SYSTEX Corporation. Based in Taiwan, YTP would like to continue to expand our reach to the Asian region to support more young talents in pursuing programming expertise and help bring software's positive impact to the world.



少年圖靈計畫
Young Turing Program

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A. Background

The rapid development of information technology has changed the daily life of human beings, shattered our imagination, and created countless new opportunities at the same time. The key to causing these dramatic changes is the development of software. Now is the era of software-defined everything. Software talents and professionals will be the most critical force for industrial development and national progress. The Young Turing Program (YTP), named after Alan Turing, the father of computer science, devotes to helping talented young people have an international perspective and vision. Through coding competitions, project implementation, and an overseas visit to interact with the world. Ultimately, we expect these young talents to find their passion, make up their minds to join the software industry, and create a better life for the world with their outstanding logical thinking and innovative abilities.

B. Organizer

Established in 1997, SYSTEX Corporation (TWSE code: 6214) is a leading Taiwan-based IT service provider with approximately 4,200 employees, ranked among the top 100 in Taiwan service industries. SYSTEX has rendered professional IT services for over 30,000 enterprise and government clients, covering Taiwan, Hong Kong, China, Asia, Europe, and the United States. Distributing more than 70 products and solutions, SYSTEX is the prime partner of many international software companies and reported consolidated revenue of USD 1.1 Billion in 2022.

YTP, Young Turing Program, is one of SYSTEX's ESG projects, and the key mission is to invest in young software talents and make them shine in the world.

C. International Young Turing Program

The International Young Turing Program is a sub-program of the YTP with three phases, that is, Coding Competition, Project Challenge, and Overseas Visit.

Phase I: Coding Competition

The YTP online coding competition is held on the Contest Management System (CMS), and winning teams will be eligible to participate in the phase II activity, the YTP Project Challenge.

Phase II: Project Challenge

Phase II, will focus on real-world problem-solving skills. Phase I winners will progress to this advanced stage.

Organizers are planning a data science competition on a public platform like Kaggle. Details including schedule, platform, and rules will be revealed four weeks before the event.

Anticipated for a two-week period in spring 2024.

Phase III: Overseas Visit

The winning team in Phase II will be awarded with a free visit to Taiwan. YTP will cover the team's accommodation and round-trip airfare.

D. Program Schedule

Date	Activity	Instruction
Sep. 1, 2023 - Sep. 21, 2023 (Taipei time)	Online Registration	Registration URL: https://systex.surveycake.biz/s/49egZ
Sep. 23, 2023	YTP Coding Competition	Online contest
Feb, 2024	YTP Project Challenge	Team project implementation
Jul. 2024	Overseas Visit	Free visit to Taiwan

E. Application Requirements

1. Team must consist of three students.
2. Participants must be enrolled in a public or private "senior high school" including recent graduates.

3. Preference will be given to students who have relevant experience in school or off-campus programming competitions.
4. Phase I, YTP Coding Competition is open to senior high school students worldwide, but Phase II, the YTP Project Challenge is only open to high school students in the Asian region.

F. Program Enrollment

Participants are required to fill out the program application form completely as a team.

1. Online Registration: Fill out the registration form at <https://systemx.surveycake.biz/s/49egZ>
2. Team Leader: Each team must have a leader who will represent the team and act as a contact person to confirm all relevant correspondence and document submissions during the program duration.
3. Team member changes: Any change of team member must be notified to YTP one week prior to the start of the "YTP Coding Competition". Changes in team members will only be effective after approval by YTP.
4. Once the registration form is submitted, YTP will send an email notification to the team.
5. YTP reserves the right to verify the eligibility of registered teams to participate in the program. If there is any doubt about the information provided, the team may not be accepted for the program.

G. YTP Coding Competition

1. YTP Coding Competition is scheduled to take place on Sat., Sep. 23, 2023, Taiwan time.
2. Event Agenda:

Time (GMT+8)	Activity	Instruction
9:00-10:00	CMS website services open	CMS available to access
10:00-13:00	YTP Coding Competition	Login & compete from anywhere

3. Prerequisites and Rules:

- i. On the day of the competition, participants must prepare a computer (laptop or PC) with an internet connection, and a keyboard. A mouse is optional.
 - ii. All teams will compete at the same time, regardless of region.
 - iii. Each team will have a unique set of accounts and passwords.
 - iv. The coding questions are written in English and can be downloaded from the contest website.
 - v. Participants may ask questions online via CMS, and YTP staff may or may not respond on their own judgment.
 - vi. All submissions, evaluations, and scores are done by Contest Management System (CMS) and interactive with participants through an internet connection.
 - vii. The Contest Management System (CMS) will evaluate all uploaded code online with various test cases.
 - viii. During the competition, participants can only communicate with their fellow team members or the YTP staff.
 - ix. If any participant interferes with the competition, the Organizer may suspend his or her rights immediately to ensure the competition runs smoothly.
 - x. The team with the highest score wins the contest after 3 hours of an online coding competition.
4. Programming Language:
- C++ (C++17 / g++)
 - C (C11 / gcc)
 - Python (Python 2.7 / CPython, or Python 3.10 / CPython)

H. YTP Project Challenge

The upcoming Phase II, the YTP Project Challenge, will focus on enhancing real-world problem-solving skills. Teams that emerged victorious in Phase I will have the privilege to progress to this advanced stage.

The organizers are preparing a data science competition that will take place on a public platform, such as Kaggle. The specifics of this competition – including the schedule, platform, and rules – will be revealed four weeks before the event starts.

It is anticipated that this competition will span a period of two (2) weeks, scheduled for the spring of 2024. Furthermore, the team that secures the top position will be rewarded with a free trip to visit Taiwan.

I. Overseas Visit

YTP will offer a free trip to Taiwan for the winning team. The team will have the opportunity to meet with their mentor professors, interact with the coding community in person, share their successes and make friends with other YTP teams in Taiwan.

In addition, YTP will arrange visits to leading universities, software companies, and start-ups, as well as sightseeing tours in Taiwan.

The detailed schedule could be adjusted according to the team's wishes after the winner of the Project Challenge is elected.

Notice

- The organizer has the right to adjust the program and award trip arrangement based on the realistic situations at that time, such as unpredictable disaster.
- Please visit our website for more detail information: <https://www.tw-ytp.org/en/>
- And welcome to contact us via YTP email account: ytp@tw-ytp.org if you have any questions.

Organizer

SYSTEX Group

Co-host

Taiwan Information Technology Development Education Foundation

National Taiwan University Competitive Programming Club

Sprout Community

Contact us

Young Turing Program, YTP

YTP Execution Team : ytp@tw-ytp.org

