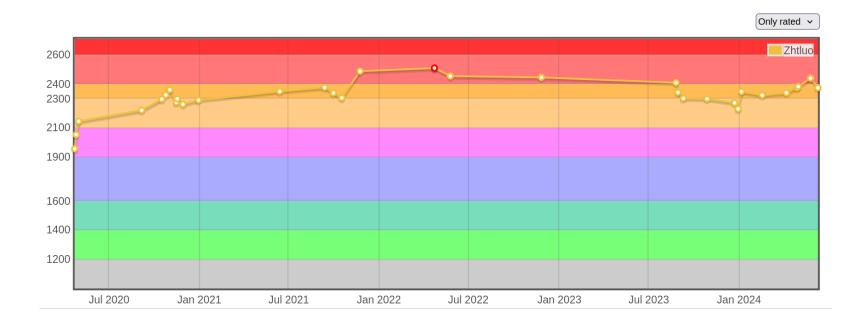
Topic O: Introduction, Implementation. Self-Untro
ZHONGTANG LUO (ZHTLUO-COM)



Date 🔻	Contest	Rank 🔷	Team	Score	Prize
04 Apr 2019	ICPC 2019 World Finals	19	Shanghai Jiao Tong University (Manual/Intelligence): Enze Sun, Xiaohan Mao, Zhongtang Luo	7/11	
19 Apr 2018	ACM-ICPC 2018 World Finals	<b>§</b> 8	Shanghai Jiao Tong University (Nightfall): Boning Li, Wenda Qiu, Zhongtang Luo	7/11	\$6000

What will this course be?

Competitive Programming

- ICP C

- Caleforces

Pop Quiz (B Road Band)

What will this course be about Basics 000

Claim: Mastering CP1/2 is generally enough for NAQ (Purdue ICPC)
Caleforces Masters.

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Claim: Mastering CP1/2 is generally enough for NAQ (Purdue ICPC)
Caleforces Masters.

We are going la practice a lot o

## Assessment: Thursday Contest

- You have 90 minutes to solve 3 problems in class. Problems solved in class net
   2 points.
- However, you are not required or expected to solve every problem in class!
   You may bring unsolved problems back home and upsolve them as homework before the due date. Every problem nets 1 point as homework.
- As a rule of thumb, you need 4 points every week for an A, and 2 points every week for a P over 12 sessions. 2 lowest performances are dropped when calculating the grade.
- Arriving more than 10 minutes late or leaving more than 10 minutes early without being excused counts as missing the class.
- Print your own template for the next session!!!

Grades (slowst) entirely based on contest 2 rapsolves A The grade mode change & drop deadline for this 12-week course is earlier 000 (6 extra credits available)

Syllabus Read... Course Tijn-up Codeforces for contest Ed for disassion. Google Doe for grade sheet Problem gets solved by repeating observations

· Problem

Things You Know Problem gets solved by repeating observations Making observations to build a bridge between knowledge & problem. Problem gets solved by repeating observations Solved the problem. Making observations to build a bridge between knowledge & problem. Problem gets solved by repeating observations 'solved' the problem. Making deservations to build a bridge between knowledge & problem. To become letter at solving problems...

1. Become better at making observations 2. Rnow more techniques 3. Become fastes cet implementation. Problems reflect these archetypes... Mathematical Problem

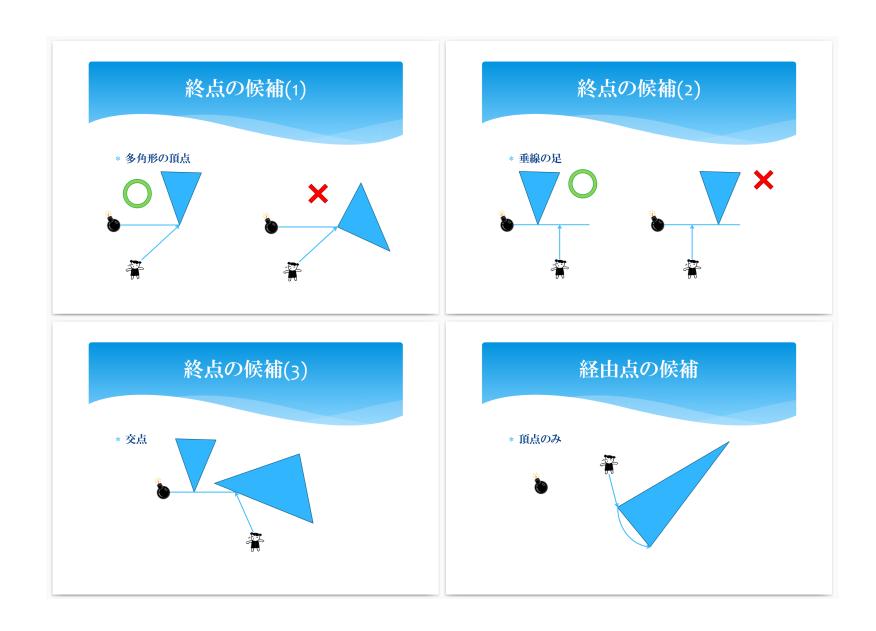
Observation: How do I look at a problem and come up with ideas?

Substrings Technique: 1 fau many chings do I know? How many things do I not know? ICPC Ranking Implementation: How fast / accurate can l code xxx; How can I improve the speed/qual.

of my code? Contest Structure for This course Every week 1 Easy problem to review 1 topic - specific problem 1 implemention / seometry We will have both inpl. and seo next week.

Alice and Bomb (Geometry)

Alice and Bomf (Geometry)



Concerns from lost semester

- More lectures?

We only have 1 prob/topic.

Very hard to increase lecture without

more work load...

- Course requires 3th. I don't know?

Every week we have review material on our webpage
The easy problem also tends to review the material.

- I spend 20 hrs every week?

Office hours

Email me

Hou to Be Good	
- Be good at CP1	
Preses.  - Be sood at CP1  - Be OK at CP2	
Do Codeforces and UCup	
- Join CPU	
Upsolve probs after contast	
Make liberal use of office	hous 0

First thing out of Syllabus... (Sundoku)

First thing out of Syllabus. (Sum doku)

What is the complexity of searching through Sundaku?

First thing out of Syllabus... (Sundoku) What is the complexity of searching through Sundaku? Thesis of proof - by - AC: In CP you don't get point by proving the perfect also; you get point by throwing together a code that happens to work on the test case. 30 min code with 60% AC > 30 min proof + 30 min code with 100% AC. Collory (Tore Complexity). CPI <108 computations => CP3 <1010 is worth a boy o Collary (Correctness) You can guess anything that looks more correct than wrong.

This Chursday...

First contest &

• Lap-lop + Reference

• Be prepared for seometry