

Reboot SY 2024 - 2025

Organizers' Kickoff Meeting

Objectives

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1. Goals for Next SY

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2. Current CompProg Curriculum

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2. Current CompProg Curriculum
3. CompProg Training Format

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4. Possible Roles to Fill

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6. Other Roles to Fill?

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6. Other Roles to Fill?
7. Other Concerns/Clarifications/Suggestions

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2. Establish a **simple yet consistent** training routine that requires the right amount of effort for both organizers and students
3. For CompProg: pilot an experimental year-long curriculum for learning CompProg
4. For SoftDev: find some training structure that works for both organizers and students. A curriculum would help!

We have a Reboot Website!

<https://redblazerflame.github.io/reboot-materials>

GitHub:

<https://github.com/RedBlazerFlame/reboot-materials>

Current CompProg Curriculum

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- To be split into two tracks: **Bootcamp** and **Veteran** (patterned after NOI.PH's training format)
- **Bootcamp:** <https://redblazerflame.github.io/reboot-materials/compprog-materials/bootcamp/>
- **Veteran:** <https://redblazerflame.github.io/reboot-materials/compprog-materials/veteran/>

Current CompProg Curriculum

Bootcamp

1. Intro to CompProg
2. **Intro to C++:** Functions, STL features like Vectors and Pairs, Implementation
3. **Basic Algorithms:** Brute Force, Complete Search, Sorting, Prefix Sums, Binary Search, Brute Force with Bitmasks and Recursion
4. **Basic Data Structures:** Priority Queue, Set, Multiset, Map
5. **Math:** Modular Arithmetic, Combinatorics (Combi), Dynamic Programming (DP), Greedy Algorithms
6. **Basic Graph Theory:** Intro to Graphs, Traversals, and Shortest Paths

Current CompProg Curriculum

Veteran

1. Intro to CompProg
2. **Math and Complete Search:** Dynamic Programming (DP), Greedy, Proving Greedy Algorithms, Combinatorics (Combi), Number Theory (NT)
3. **Graph Theory:** Traversals, Shortest Paths, Connected Components and Transitive Closures
4. **Advanced Data Structures and Algorithms:** Segment Trees, Lazy Propagation, Tree Flattening, LCA with Binary Lifting, SQRT Decomposition
5. **Problem Setting**

Current CompProg Curriculum

1. **Bootcamp:** For newcomers aiming for NOI.PH Finals
2. **Veteran:** For NOI.PH Finalists aiming for the International Olympiad in Informatics (IOI)

Proposed Training Format

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- For **CompProg**
 - Weekly synchronous 1 hour meetings, meant to serve as **introductory lectures** to the topic of the week
 - 5-6 hours of asynchronous solving per week (with one weekly progress report to introduce accountability in training)

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- For **SoftDev**
 - No plans yet 🧑
 - For *Reboot SoftDev Trainers*, it'll help to come up with a **plan for SoftDev** ^^

Proposed Training Format

CompProg

- Materials will be on the [Reboot Website](#)
- Submissions will be on **KHub** (Sir Roy will set up a KHub course for Reboot)

Possible Roles to Fill

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- Roles are **NOT mutually exclusive** -- I encourage you to **volunteer for multiple roles**
- Feel free to **volunteer yourself or suggest other roles that we may have missed**

Possible Roles to Fill

1. Module Writers

- Write ***simple*** slides to synthesize the topic for the week (show examples)
 - Recommendation for making slides: Use the **MARP** template found in the [Reboot Materials GitHub](#) (see the [test-slides](#) folder)
- Find **problems** to help the students apply their knowledge per week (show examples)

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2. Trainers

- Meet with the students weekly in the synchronous sessions and answer students' questions in the Discord when you're available

Possible Roles to Fill

3. Externals

- a. Pubmats
- b. Announcements

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4. **Creatives** (Could be merged with Externals, but based on experience in PCPC, this tends to overload externals)

- a. Branding
- b. Other Creative Work for Reboot

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- a. Branding
- b. Other Creative Work for Reboot

5. **Internals**

- a. Logistics
- b. Paperwork

SoftDev

~~The Elephant in the Room~~

SoftDev

- A curriculum (or at least a general "training" format) is needed
- For SoftDevvers, feel free to self-organize and assign roles among yourselves
(~~wow, Agile Scrum~~)
- I will delegate this to other organizers (if you want to volunteer, message nalang sa Discord, haha ^^)

Any More Divisions/Roles to Fill?

Other Concerns/Clarifications/Suggestions?

Thank You!

Have a Good Summer! ✨

Follow your Dreams ✨



**P.S., Surprise Surprise this Slideshow was
Crammed in 1.5 Hours! 🤪**

This is the true power of MARP