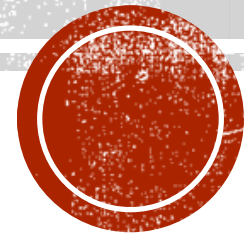


FUN IN PROGRAMMING

CUNY Queens College
CS111 Lab Instructor: Chi Tse (Ricky)



AGENDA:

- Enjoy the fun in programming
- Online Practices
- Coding Competitions
- Hackathons/Programming Challenges



Learn an Hour of Code

Beyond an Hour

Find Local Schools + Camps

Sign up your event



Star Wars: Building a Galaxy with Code

Learn to program droids, and create your own Star Wars game in a galaxy far, far away. (Ages 6+)

Teacher's Notes

<https://hourofcode.com/sw>

Go



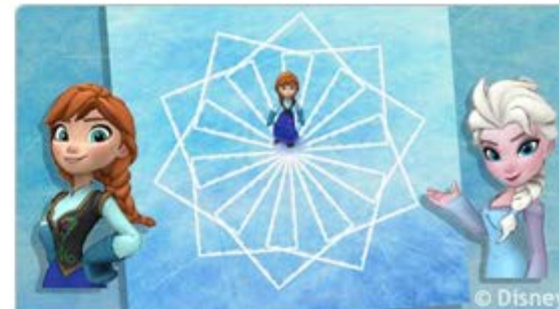
Minecraft Hour of Code

Use blocks of code to take Steve or Alex on an adventure through this Minecraft world. (Ages 6+)

Teacher's Notes

<https://hourofcode.com/mc>

Go



Code with Anna and Elsa

Let's use code to join Anna and Elsa as they explore the magic and beauty of ice. (Ages 8+)










Teacher's Notes

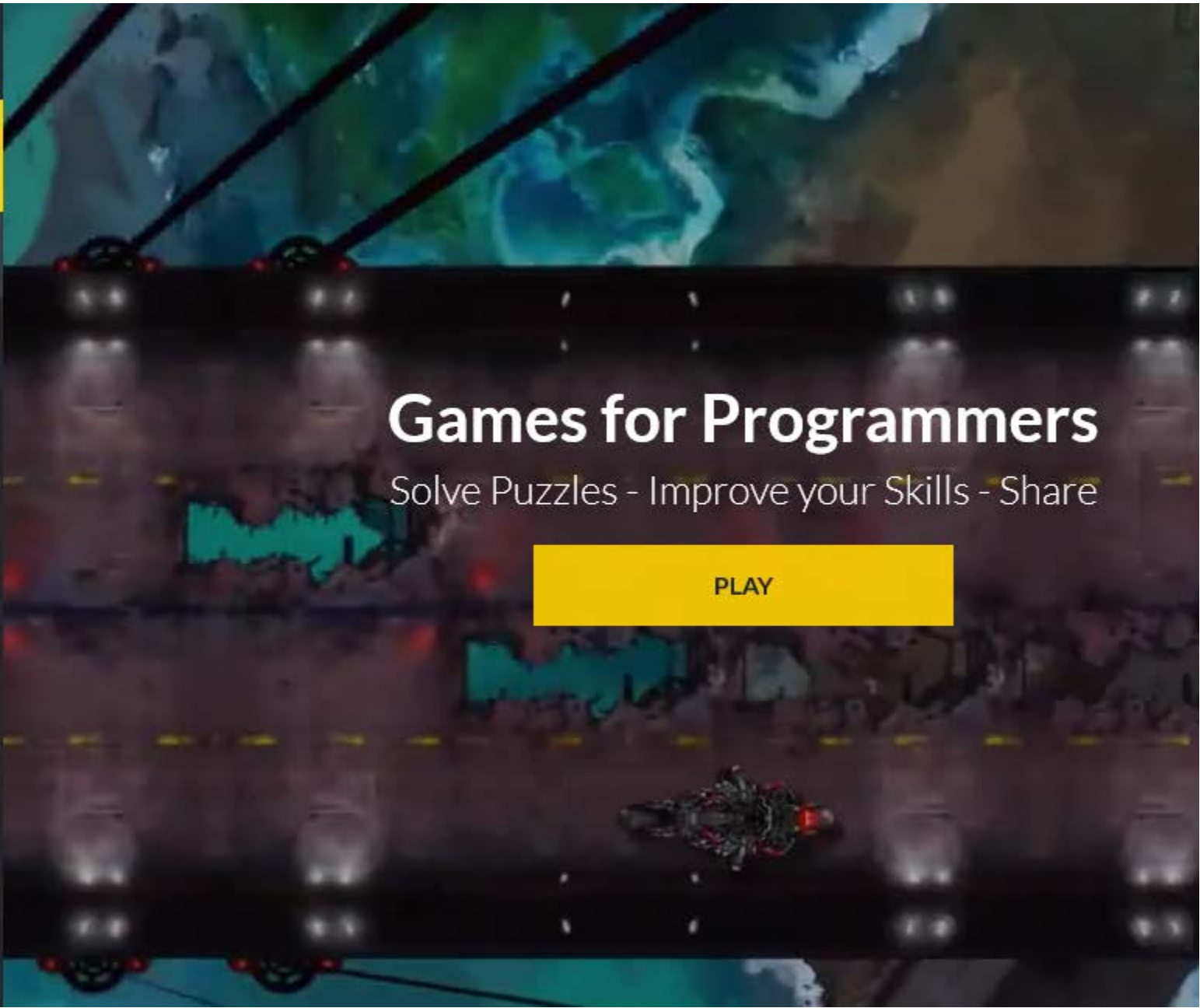
<https://hourofcode.com/frzn>

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Games for Programmers

Solve Puzzles - Improve your Skills - Share

PLAY



ONLINE PRACTICES

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Zhejiang University

0100 01010110

Online Judge



ONLINE PRACTICES

Welcome to the Timus Online Judge, problem archive with online judge system

The online contest finishes in: 3 h 30 min

Timus Online Judge is the largest Russian archive of programming problems with automatic judging system. Problems are mostly collected from contests held at the Ural Federal University, Ural Championships, Ural ACM ICPC Subregional Contests, and Petrozavodsk Training Camps. To start solving problems, visit the [guide](#).

Timus Online Judge provides you an opportunity to participate in online versions of many contests held at the Ural Federal University on a regular basis. See the [rules](#) of online contests.

This site is created and administrated by the students and graduates of the Ural Federal University.



ONLINE PRACTICES

Project Euler.net

About Project Euler

What is Project Euler?

Project Euler is a series of challenging mathematical/computer programming problems that will require more than just mathematical insights to solve. Although mathematics will help you arrive at elegant and efficient methods, the use of a computer and programming skills will be required to solve most problems.

The motivation for starting Project Euler, and its continuation, is to provide a platform for the inquiring mind to delve into unfamiliar areas and learn new concepts in a fun and recreational context.

Who are the problems aimed at?

The intended audience include students for whom the basic curriculum is not feeding their hunger to learn, adults whose background was not primarily mathematics but had an interest in things mathematical, and professionals who want to keep their problem solving and mathematics on the cutting edge.

Can anyone solve the problems?

The problems range in difficulty and for many the experience is inductive chain learning. That is, by solving one problem it will expose you to a new concept that allows you to undertake a previously inaccessible problem. So the determined participant will slowly but surely work his/her way through every problem.



ONLINE PRACTICES



Master any CS Domain

With more than five domains to choose from, you can decide if you want to improve your coding skills on Artificial Intelligence or Machine Learning. Whether you are a beginner or an industry veteran, you will find several contests that challenge you and help you boost your coding chops. Think you've mastered a domain? Great. Go ahead and practice to excel in another domain.



Artificial
Intelligence



Algorithms



Functional Programming



Code Golf



Machine
Learning



ONLINE PRACTICES

11,920,641 members (58,579 online)



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CodeProject. A Guide.

What is CodeProject?

CodeProject is a community of Software development and Design developers joined together with certain common goals: to learn, to teach and to have fun programming. Developers from all over the world come together to share source code, tutorials and knowledge for **free** to help their fellow programmers.



CODING COMPETITIONS



A **Directi** Educational Initiative

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Home » Compete

Compete



This is the place to show off your skills

Try your hand at one of the competitions; solve a problem and write great code. Put yourself up for recognition and win great prizes. Contests begin on the first of every month.

[Convert to my Timezone](#)

The times are in IST(Indian Standard Time)

Future Contests

CODE	NAME	START	END
IPC15P1A	ICPC Preparatory Series by Team SkullCrackers	2015-11-25 21:00:00	2015-11-26 02:00:00



CODING COMPETITIONS



COMPETE

LEARN

COMMUNITY

JOIN



Competitive Programming



Test your **algorithm skills**.

Compete head-to-head in the Topcoder Arena!

SIGN UP

PROBLEM ARCHIVE

PAST SRMS

LAUNCH WEB ARENA (BETA)

LAUNCH APPLET ARENA

Competitive Programming at Topcoder

Test your skills on algorithm problems involving machine learning, graph theory, optimizations, recursion, dynamic programming and much more.

Member Tutorials

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[How to Dissect a Topcoder Problem Statement](#)

[Mathematics for Topcoders](#)

[How to Find a Solution](#)

[Dynamic Programming: From Novice to Advanced](#)

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CODING COMPETITIONS



Greater New York Region

Sunday, November 8, 2015
Queens College (Flushing, Queens)
[Contest announcement mailing list](#)

2015 General Contest Information

- [Contest rules](#)
- [Final standings](#)
- [Problems](#)
- **Hosted by:** [Queens College Department of Computer Science](#) located in Flushing, Queens
- **Date:** Sunday, November 8, 2015



CODING COMPETITIONS

Facebook Hacker Cup Website

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PEOPLE >

851,999 likes

ABOUT >

The Facebook Hacker Cup is an annual worldwide programming competition where hackers compete against each other for fame, fortune, glory and a shot at the...
READ MORE

<http://www.facebook.com/hackercup/>

Facebook Hacker Cup
January 10 · 🌐

Update on Facebook Hacker Cup 2018

We want to give a quick update on what's going on with Hacker Cup this year. We're taking a short break to make some improvements to contest quality and logistics, and as such, we won't be holding Hacker Cup in the first half of this year. Depending on how quickly we're able to make these improvements, we hope to have a contest towards the end of this year. We want to thank you all for your patience, and we look forward to seeing your submissions when we're back. Please stay tuned for news later in 2018.

Happy Hacking,
The Hacker Cup Team



CODING COMPETITIONS

code jam

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About

What is Code Jam?

Code Jam calls on programmers around the world to put their skills to the test by solving multiple rounds of algorithmic puzzles. The online rounds conclude in the World Finals, which rotates globally. In addition to being challenging and fun, Code Jam problems can help you develop your coding and programming skills. If you've never tried Code Jam, what are you waiting for? If you're a returning participant, welcome back, and thanks for stopping by.

To learn more about other Google coding competitions, visit:

- [Kickstart](#) for university students or industry professionals looking to develop their coding skills and potentially pursue a Google career.
- [Hash Code](#) for students in Africa, Europe, and the Middle East looking to work as a team on real Google problems.



HACKATHONS / CODING CHALLENGES

Participate in online and in-person hackathons.

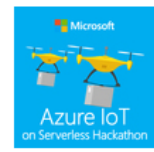
Post a hackathon

Browse hackathon projects

Search by title, keyword, or location

Type: Online

Sort by: Recently Added



Azure IoT on Serverless Hackathon
Online
Build IoT business applications using a Serverless architecture.

★ \$20,000 IN PRIZES
🕒 3 months TO SUBMIT



Smackathon
Online
Decentralize the music industry - build smart contract applications that disrupt the world of music

★ \$15,000 IN PRIZES
🕒 19 days TO SUBMIT



Hack Productivity 4
Online
Hack the workday with Office 365 - submission period opens May 7th!

★ \$35,500 IN PRIZES
🕒 SUBMISSIONS OPEN SOON



HACKATHONS / CODING CHALLENGES



Challenge.gov

Government Challenges, Your Solutions

836 Competitions Found

Xamine Challenge: Machine Inspection of Uncertain Information



\$25,000 in prizes

Uncover machine-based capabilities to review intelligence products against existing tradecraft standards.

Open Until Jul 02, 2018

Posted by:
Office of Director of National Intelligence

The Unlinkable Data Challenge: Advancing Methods in Differential



\$50,000 in prizes

Propose a mechanism to protect personally identifiable information while maintaining a dataset's utility

Open Until Jul 26, 2018

Posted by:
National Institute of Standards and Technology

Preventing Childhood Obesity



Preventing Childhood Obesity

\$375,000 in prizes

Create an innovation to promote healthy weight for children & families.

Open Until Oct 15, 2019


Posted by:
Health Resources and Services Administration



HACKATHONS / CODING CHALLENGES




LIVE 5 UPCOMING 10 PREVIOUS



HACKATHON
True AR Challenge & Hac...

ENDS IN
23 : 10 : 10
DAYS HOURS MINUTES


START NOW



HACKATHON
Beginner Hack 1.0

ENDS IN
23 : 16 : 39
DAYS HOURS MINUTES

START NOW




HACKATHON
Pitney Bowes SMB Challe...

ENDS IN
34 : 16 : 39
DAYS HOURS MINUTES

START NOW



HACKATHONS / CODING CHALLENGES

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What is Microsoft Imagine?

Microsoft Imagine connects students with the tools, resources and experiences they need to elevate their skills for today's working world. Whether it's building a game, designing an app or launching a project, Microsoft Imagine helps students develop their ideas and boldly bring them to life.



Competitions

Technology competitions for all levels and interests ranging from short skill building challenges to in-depth competitions where students create games, apps and integrative solutions.



Developer Tools

Professional level developer tools and software for students at no cost - everything needed to create games, apps and websites.



Online Learning

Free online training and courses to help students learn the latest technology and take their coding skills to the next level.



REFERENCES:

- <http://web.engr.oregonstate.edu/~huanlian/>
- <http://codecondo.com/coding-challenges/>
- <http://nifty.stanford.edu/>

