Sprint #1: LoveCoding OJ

Team #43:

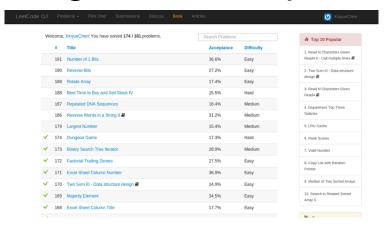
Yige Wang, Yichi Liu, Xinyue Chen

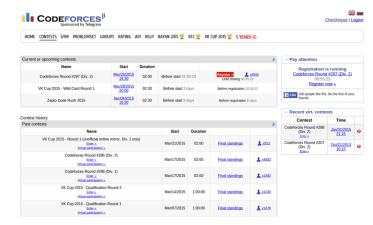
Outline

- Vision
- Design
- Approach
- Progress
- Plan
- References

Vision

- An online judging platform
- Algorithm problems
- Algorithm competitions





Design

- Account Management
 - o Login, register, profile
 - Ranking, history
- Problem Management
 - Upload and display
 - Rich feature code editor
 - Sandbox evaluation
- Competition Management

Approach

- Web framework: Django
- Cloud Deployment: AWS
- Code editor: CodeMirror
- Sandbox: pysandbox

Progress

Account Management

Online Judge is		
Please sign in:		
Username: XinyueChen		
Password: •••		
Login	Sign up	

Please sign up nere:		
Firstname:		
Lastname:		
Username:		
Email:		
Password:		
Confirm password:		
Register	Cancel	

Edit Your Profile:		
School:		
Website:		
Photo:		
Choose File No file chosen		
Bio:		
Confirm Cancel		

Progress

Problem Management

Problem ID	Problem Title
1	证明用冒泡的想法就好了
2	Repeated DNA Sequences

Problem 2: Repeated DNA Sequences

Problem Description:

Problems

All DNA is composed of a series of nucleotides abbreviated as A, C, G, and T, for example: "ACGAATTCCG". When studying DNA, it is sometimes useful to identify repeated sequences within the DNA.

Write a function to find all the 10-letter-long sequences (substrings) that occur more than once in a DNA molecule.

Your Code here:



Progress

pysandbox

```
ubuntu@ip-172-31-42-239:~/sandbox$ python sample2.py sandbox_sample result: RF
cpu: 0ms
mem: 308kB
compare with right result:
compare with wrong result:
1c1
< Hello World
\ No newline at end of file
---
> Hello Obama
```

Plan

- Sprint #2
 - All basic features
 - problem evaluation
 - competition
 - discussion
- Final
 - UI improvement
 - Concurrency concern

References

- Django: https://www.djangoproject.com/
- Bootstrap: http://getbootstrap.com/
- CodeMirror: https://codemirror.net/
- Pysandbox: https://github.com/openjudge/sandbox