

Final Project Announcement

Dead or Alive

Requirements

15 min Presentation (10%)

Report (10%)

Project

- Team members
 - 1 ~ 5 members a team
- Topics
 - Choose one of topics on class website
 - Propose by yourself

Schedule

Date	Event
5/24	Send team member list
5/31	Send topic
6/12 ~ 6/13	First presentation & Review
6/14	Special presentation & Vote
6/26 ~ 6/27	Second presentation
7/2	Final report

Presentation & Report

- What are the data structures used?
 - Construction, operations, complexity
- What are the problems related to the data structure?
- What are the motivations to study the problem?

Presentation & Report

- How to use the data structure to solve the problem?
- What are the experiment performance of the data structure? (Optional)
- Is it possible to do better?

Simple Example

- Topic: Binary Search Tree
- Motivation
 - Sorting is an important problem. Data can be found faster if they are sorted. We use binary search tree to help us sort numbers.
- Problem Definition
 - Given a sequence of numbers $A[1..n]$, rearrange A to get B , such that $B_i \leq B_{i+1}$ for $1 \leq i \leq n$.
Output B .

Simple Example

- Data Structure

...

- Sorting by BST

...

- Conclusion

- ... If we can restrict the height of binary search tree, then we may sort numbers more efficiently.

Communication

- Send team member list
 - Send to fhliu@cs.nthu.edu.tw
 - Team name, student id & name of members, team e-mail address
- Send topic
 - Send to fhliu@cs.nthu.edu.tw
 - Team name, topic

Communication

- Choose presentation time
 - Receive possible presentation time
 - Choose time and reply
- Send final report
 - Send to all the tutors

Language

- Use English or Chinese for presentation and report
- But use English for the slides of presentation