

컴퓨터 개념 및 실습

Group project

Sorting

- Putting elements in some certain order
 - Basically addressing how we organize data
- Well-studied algorithms
 - Insert sort
 - Select sort
 - Bubble sort
 - Merge sort
 - Quick sort

Group project details

- 5 groups, each assigned to an algorithm
 - 14~15 students per group
 - Members should study their algorithm
 - Help each other
 - Discuss amongst each other, etc
 - Every single member should understand the assigned algorithm by heart

What to expect for demonstration

- Date: near end of May
- Demonstration logistics
 - I will...
 - Randomly assign initial position to students
 - Randomly assign numbers to students
 - Keep track of number of comparisons used
 - Record the event
 - Students will...
 - Demonstrate sorting in action
 - Describe what is going on while doing it

Rules

- Sorting
 - Sort in non-decreasing order
 - One side will be defined as the lower index
- Actions
 - Those involved in action, describe what is happening
 - Those who are not, do not domineer

Grading

- Group-based grading
 - If one student does not know what to do, the entire group will be penalized
 - Errors in algorithm-in-action will be kept track
 - All members should participate actively, according to the algorithm

Insert sort

- 이해원
- 최성환
- 박재문
- 정종헌
- 시제현
- 구준서
- 정재영 (**14)
- 문진영
- 이효진
- 윤상민
- 임지규
- 김상민
- 오승택
- 이상현

Select sort

- 이재찬
- 폐사란자데
- 홍순범
- 김태영
- 이성렬
- 김수찬
- 김형준
- 임근수
- 김민주
- 김연웅
- 권지웅
- 권상우
- 김영찬
- 오진수

Bubble sort

- 성용운
- 예수웨이
- 이하린
- 정재영 (***)81)
- 신우림
- 김기완
- 손동현
- 최석우
- 서정록
- 김경환
- 김기덕
- 조민정
- 고지형
- 주형진

Merge sort

- 김훈
- 한동엽
- 이크라 아파잘
- 정재윤
- 이동현
- 김상훈
- 송우경
- 허동석
- 신원석
- 서영호
- 오현종
- 송명서
- 엄대현
- 김동현

Quick sort

- 홍용기
- 이진우
- 전민혁
- 카리미
- 김현수
- 박준영
- 한진제
- 최성우
- 오선재
- 김도현
- 김재우
- 정덕인
- 장민석
- 이래건
- 신승원