

ITP20003 Java Programming

Lab 6. Raise Family

Lab 6

- Examples

- LinkedList
- SortedList
- Hierarchical Tangram
- Generic LinkedList

- Missions 10, 11 & 12

- Team 

| | | |
|--------|-----|---------|
| Team1 | 김지민 | Wongani |
| Team2 | 김소은 | 이한빈 |
| Team3 | 김시온 | 유채우 |
| Team4 | 김아론 | 이지행 |
| Team5 | 김예균 | 김재윤 |
| Team6 | 박수현 | 황보효정 |
| Team7 | 박혜빈 | 양예진 |
| Team8 | 백주열 | 윤석규 |
| Team9 | 심충일 | 전혜원 |
| Team10 | 이종원 | 이혁재 |

StrSequence and SortedStrList

- StrSequence extends StrList
 - add concat()
- SortedStrList extends StrList
 - override add() (i.e., redefine add())

Mission 10. UniqueStrList

- construct UniqueStrList by extending StrList
- implement contains(str) which returns true when str is already in the list
- add() adds a string to the list only if the given string is not already in the list
- show that UniqueStrList is correct by UniqueStrListTest

LinkedList and ArrayList

- Generalize StrList into LinkedList which can hold objects of any class
 - c.f. Object class
 - Every class in Java is an extension of the Object class
 - Common interface methods: equal(), toString(), hashCode(), etc.
- Generalize LinkedList into List
 - LinkedList extends List
 - ArrayList extends List

Revised Figures

- Define Circle, Square, Triangle as children of Figure

Mission 11. Revise Tangram

- Replace Circle, Triangle and Square of your Tangram work with the revised version
- Redefine the other figures as children of Figure
- Add new figures Hexagon and Ellipse
 - An Hexagon can be defined with a centroid and a radius
 - An Ellipse can be defined with a centroid, a width and a height

