

**Gebze Technical University
Computer Engineering**

CSE 222 - 2018 Spring

HOMEWORK 2 REPORT

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1 INTRODUCTION

1.1 Problem Definition

There are some experiments and their information. We need to link them each other. Additionally, the first experiments of each day should be linked each other.

We have some method to arrange these experiments.

A user can add and remove an experiment or can remove a day from the list.

We must print the list because users need to see all experiments.

In addition, experiments can be change. So, setter and getter methods are necessary.

This list is complicated for accuracy of experiments. We have to have some ordering methods.

1.2 System Requirements

Java Libraries

-java.util.Iterator

-java.util.NoSuchElementException

5 Class

-driver

-Experiment

-ExperimentList

-ExperimentNode

-Iterator

1.3 Problem Solution Approach

I thought about the problem. Then I decide to write 4 java class. These are;

- 1- ExperimentList, includes methods that we need. It is necessary to arrange our list.
- 2- ExperimentNode, includes an Experiment object. It is important to hand an experiment and link them each other.
- 3- Experiment, includes information of an experiment. (Setup, Day, Time etc.)
- 4- Iterator, is a class that we use it for an iterator. It has its own methods.

And then, we can construct a data structure for these experiments.

2 RESULT

Running Results

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My program has an average time complexity and so, it is not too fast or slow.

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Experiment 1:
Setup:The experiment was run in phases.
day:1
time:08:00
completed:true
accuracy:1780.0

Experiment 2:
Setup:Nothing was calculated in the earth.
day:1
time:05:00
completed:true
accuracy:749.0

Experiment 1:
Setup:This experiment used the 6-city domain and was run in 6 phases.
day:2
time:10:00
completed:true
accuracy:421.0

Experiment 2:
Setup:The planner could take advantage of linking opportunities.
day:2
time:18:30
completed:true
accuracy:17.0
```

addExp method tested.

Experiment 1:

Setup:The experiment was run in phases.

day:1

time:08:00

completed:true

accuracy:1780.0

Experiment 2:

Setup:Nothing was calculated in the earth.

day:1

time:05:00

completed:true

accuracy:749.0

Experiment 1:

Setup:This experiment used the 6-city domain and was run in 6 phases.

day:2

time:10:00

completed:true

accuracy:421.0

The Experiment that we get:

Setup:The planner could take advantage of linking opportunities.

Day:2

Time:18:30

Completed:true

Accuracy:17.0

Experiment 3:

Setup:SET OPERATION IS FINISHED!

day:1

time:00:00

completed:true

accuracy:1234.0