### Homework 7

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## **Question 3**

## **Problem-solution approach**

Codes from the book are taken and java's structures are used. Execution times are calculated and output into the console. Data structures are all printed to be verified but since there is a huge number of elements in each data structure I could not screenshot all of them. I recommend you to run the code if you want to see them verified(each data structure's elements will be output to the screen, you can comment out sections in order to be able to see it more clearly). However, there is no problem with these structures anyways since they are taken from the book or java's implementations are used. Execution times are in nanosecond. The only thing missing was book's b tree remove method which was not mentioned in the book.

#### **Tests cases**

No test cases, just the output

### **Class diagram**

No class diagram

## **Command and output**

