**Problem 1.** Following you find an implementation of the binary search.

- (a) Write down the recurrence relation and
- (b) solve them using a recursion tree.
- (c) What is BigO? Prove that!

**Problem 2.** Solve the following recurrence relation using a recursion tree

```
F(n) = 2F(n/2) + 4n

F(1) = 1
```

## Pop Quiz 2 - Answersheet

Problem 1.

## Problem 2: