# Purely functional palindromic trees Iteration VI results

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# **ABSTRACT**

This is the results of BS-3 Project and it contains a general project results so far.

### CCS CONCEPTS

 $\bullet$  Theory of computation  $\rightarrow$  Data structures design and analysis;

## **KEYWORDS**

palindrome, eertree, purely functional, persistent

#### 1 DOCUMENTATION AND COMMENTS

Most of the functions have a simple comment description, not heavily technical. Everything can be collected and formed into nice-looking documentation using *Haddoc*.



Figure 1: Example of some entry generated by haddoc

# 2 TESTS AND EXAMPLES

Some functions have an example which also can be used as a *doctest*.



Figure 2: Example of some entry with doctest

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More complex functions are covered with QuickCheck's proper-

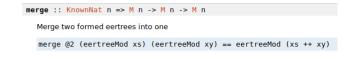


Figure 3: Example of some entry with property test

In this example it can be seen as:

 $merge(eertree(S_1), eertree(S_2)) \equiv eertree(S_1 + S_2)$ 

<sup>\*</sup>Project supervisor.