```
sets
                                                                                                                                                                                                                                                                                                                                                        ops
                                                                                                                                                                                                                                                                                                                                                                             sorts
                                                                                                                                                       functions
                                                                                                                                                                                                                                                                                                                                                                                                   algebra
                                                                                                                                                                                                                                                      key: tree left, right: tree isempty: tree
                                                                                                                                                                                                                                                                                                                                                                                                    tree
                            key(t) left(t) right(t)
                                                                                                                                                                                                                                                                                                                                                                           tree, elem, bool
                                                                                                  empty() = \langle \ \rangle
maketree(l, x, r) = \langle l, x, r \rangle
Sei t = \langle l, x, r \rangle; sonst sind key, left, right undefiniert.
                                                                                                                                                                       bool = {true,false} elem : beliebige Menge tree = {\langle \rangle} \cup {\langle l, x, r \rangle | x \in \text{elem}, l, r \in \text{tree}}
                                                                                                                                                                                                                                                                                                                                                     empty:
                                                                                                                                                                                                                                                                                                                               maketree: tree \times elem \times tree \rightarrow tree
isempty(t)
=(t\stackrel{?}{=}\langle\;\rangle)
                                                                                                                                                                                                                                                          \rightarrow tree \rightarrow bool
                                                                                                                                                                                                                                                                                                       \rightarrow elem
```