## Encoding II, Algorithms and Data Structures Elias Gestrich

## Exercise 1: IEE 754 Number format

## Exercise 2: ASCII

```
a) S = 53_{16}, k = 6B_{16}, I = 49_{16}: "SkI" = 536B49_{16} = 101\,0011\,0110\,1011\,0100\,1001_2
```

## Exercise 3: Binary Search Trees

```
a) insert(11)
empty tree: 11 becomes root

11

insert(10)
10 < 11

10

insert(9)
9 < 11 \rightarrow 9 < 10

11

10

10
```

