

Lab2\_5

Niklas Ling



## **Step 1 - Understand the problem**

## Rephrase the problem

The company needs a script with 3 different function,

read\_file(filename)

This function is supose to read the file and remove anything that is not a number and return a list of all the numbers of the file and return the list

2. filter\_odd\_or\_even(numbers, odd):

This function will look att all the numbers in the list and see if it odd or even, depending on the bolean value of it will either return a list with the odd or the even numbers in the list and the return the new list

3. reversed\_bubble\_sort(**numbers**):

Here the script needs to implement the bubble sort algoritm to sort the list from big to smaill numbers

## Understanding the words

In the past I've had found it difficult to understand sorting algorithms and I think my problem was that I tried to understand it through code, so I made sure to understand it before starting on code this time around and it helped alot



## Step 2 - Devising a plan

Approach of choice

The plan was devised mostly with flowcharts with the exception of the first function that I first did in psuedo code.

```
readfile(filename)

temp[] , numbers[]

    open file{
        for(each line in file)
        temp=temp + line.split.(" ")
     } close file

for (each x in temp)
{
     numbers.add(int(x))
}

return numbers
```







