



Kristianstad
University
Sweden

Kristianstad University
SE-291 88 Kristianstad
Sweden
+46 44 250 30 00
www.hkr.se

Lab2_5

Niklas Ling



Kristianstad
University
Sweden

Kristianstad University
SE-291 88 Kristianstad
Sweden
+46 44 250 30 00
www.hkr.se

Step 1 - Understand the problem

Rephrase the problem

The company needs a script with 3 different function,

1. `read_file(filename)`

This function is suppose 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 boolean 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 algoritmn 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



Kristianstad
University
Sweden

Kristianstad University
SE-291 88 Kristianstad
Sweden
+46 44 250 30 00
www.hkr.se

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



