

## Report Task A

### 1 Introduction

Introduce the report and its main task in a simple way so that an uninitiated person can understand what the report will be about.

### 2 Background

Describe sorting in general.

#### 2.1 Place of insertion

Describe the algorithm and its pros and cons.

#### 2.2 Quick sort

Describe the algorithm and its pros and cons.

#### 2.3 Merge sort

Describe the algorithm and its pros and cons.

### 3 Method and implementation choice

Describe the choices you made for each algorithm and how you went about it.

### 4 Results and Analysis

#### 4.1 Sorteringsalgoritmer

**Table 1 Description you need to change. For the files of size 10**

Algorithm	Running time ( $s$ / $ms$ / $\mu s$ )					
	1	2	3	4	5	Average value
Insertionsort						
Quicksort						
Mergesort						

**Table 2 Description you need to change. For the files of size 100**

Algorithm	Running time ( $s / ms / \mu s$ )					
	1	2	3	4	5	Average value
Insertionsort						
Quicksort						
Mergesort						

**Table 3 Description you need to change. For the files of size 1000**

Algorithm	Running time ( $s / ms / \mu s$ )					
	1	2	3	4	5	Average value
Insertionsort						
Quicksort						
Mergesort						

**Table 4 Description you need to change. For the files of size 10 000**

Algorithm	Running time ( $s / ms / \mu s$ )					
	1	2	3	4	5	Average value
Insertionsort						
Quicksort						
Mergesort						

**Table 5 Description you need to change. For the files of size 100 000**

Algorithm	Running time ( $s / ms / \mu s$ )					
	1	2	3	4	5	Average value
Insertionsort						
Quicksort						
Mergesort						

**Table 6 Table description for displaying each c-constant and the mean value of the c-constants, i.e.  $\bar{c}$**

Algorithm	c constants					
	$c_{10}$	$c_{100}$	$c_{1000}$	$c_{10000}$	$c_{100000}$	$\bar{c}$
Insertionsort						
Quicksort						
Mergesort						

## 4.2 Identification of breakpoints

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## 4.3 Hybrid sorting algorithms

**Table 7 Table description**

File size	Algorithm	Running time ( $s / ms / \mu s$ )					
		1	2	3	4	5	Average value
10	HybridQ						
	HybridM						
100	HybridQ						
	HybridM						
1000	HybridQ						
	HybridM						
10000	HybridQ						
	HybridM						
100000	HybridQ						
	HybridM						

## 5 Conclusions

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