

# ASSESSMENT FORM DBL ALGORITHMS (2IO90) FOR MIDTERM REPORT

Group:

Grade:

Assessment of the reports for DBL Algorithms is based on an evaluation of various aspects, as listed below. Most aspects are evaluated on a scale consisting of five possible scores, which can be interpreted as follows:

poor	almost satisfactory	decent	good	excellent
0	0	0	0	0

For each aspect there is a short explanation about what “weak” means, and what you need to do get the score “excellent”. The final grade is of course based on the scores for the individual aspects. Here’s a rough indication of how the scores are translated to a final grade:

- Several scores on aspects concerning the algorithms and on aspects concerning the experimental evaluation are poor, other scores are mostly almost satisfactory → final grade = 4
- Most scores, in particular on aspects concerning the algorithms and on aspects concerning the experimental evaluation, are almost satisfactory → final grade = 5
- Most scores are decent, some may be almost satisfactory → final grade 6–7
- Most score are good, some may be decent → final grade 7–8
- Almost all scores are at least good, and many scores on aspects concerning the algorithms and experimental evaluation are excellent → final grade  $\geq 9$

## General

### Requirements

The paper does not use the provided LaTeX template and/or does not adhere to the page limit.	0	0	The report uses the provided LaTeX template and it adheres to the page limit (14—16 pages, excluding an appendix with notation)
The individual sections do not have the required lengths.	0	0	The individual sections have the specified lengths.

### Appearance

The report looks messy.	0	0	0	0	0	The report looks nice, contains useful and clear illustrations. Pseudocode is formatted nicely, and figures. Subsections are used when appropriate and have a reasonable length.
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### Writing style

The report is hard to read due to the many grammatical and spelling errors.	0	0	0	0	0	The report is a pleasure to read: sentences are grammatically correct and easy to parse, there are hardly any spelling errors, and the style is appropriate for a scientific paper on algorithms.
The text is badly structured and it is often unclear how individual sentences or paragraphs relate to each other.	0	0	0	0	0	The text is well structured: sections, subsections and paragraphs have a clear topic and are pleasant to read, and they connect well.

### Notation

Proper notation is not introduced, and terminology is not defined.	0	0	0	0	0	Appropriate notation and terminology is introduced. The notation is well chosen and consistent, and terminology is explained clearly.
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### References

Many references are incomplete and/or not formatted according to the guidelines.	0	0	0	0	0	References are complete and formatted according to the guidelines.
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## Introduction

## Introduction

There is hardly any motivation or background for the problem being studied.	O	O	O	O	O	The background and motivation are described in a clear and appealing way, with references where appropriate.
The exact problem being studied is not defined, or in a very unclear manner.	O	O	O	O	O	There is a problem statement that is clear without being overly formal.
There is hardly any discussion of previous work on (variations of) the problem or the discussion is very unclear.	O	O	O	O	O	The discussion of previous work contains at least seven, well-chosen papers. For each paper it is clear which problem is being studied and what the results are, and the relation between the papers is explained in a structured manner.
The main results in the report are not discussed, or in a very unclear or incomplete manner.	O	O	O	O	O	The main results in the report are described well, and the relation between these results and the previous work is explained clearly.

## The algorithms

## Description

The algorithm is not explained clearly. The global flow of control is unclear, and details are missing or incorrect. Pseudocode is very hard to read.	O	O	O	O	O	One algorithm is explained fully, with pseudocode where appropriate. The global flow of control as well as the details of the various steps are clear. When pseudocode is used, it is correct, easily readable and not too long.
No figures are used.	O	O	O	O	O	Figures illustrate important concepts and steps in the algorithms in a clear and meaningful way.

## Analysis

No analysis of the running time is given, or the analysis is incorrect.	O	O	O	O	O	A detailed and correct analysis is given of the running times of the described algorithm.
It is not clear why the algorithm correctly computes what it is supposed to compute.	O	O	O	O	O	Where relevant and non-trivial, it is proved that the algorithm computes a valid and optimal solution. The proofs are clear and concise. Where appropriate, examples are given that show cases in which the algorithm gives low-quality solutions.