Instructions

• You should only write this report if your classification achieved on Trabalho1 in mooshak was larger than or equal to 150 points. Submit the pdf version of the document to INFORESTUDANTE not later than April 11th.

• Write your report in a clear, concise and objective manner and use the template in the next page to guide you in the writing process. Use font Arial, size 12, single space between lines, and do not modify the size of the margins. Your report cannot have more than 3 pages. Do not write code in the report, but you are allowed to describe your approach from a high-level perspective using pseudo-code. In that case, use the pseudo-code conventions described in the book Cormen et al, Introduction to Algorithms (Section 2.1).

Report for Programming Problem 1 - 2048

Team:

Student ID: _____ Name _____

Student ID: _____ Name _____

1. Algorithm description
(Describe the main working principles of your approach to the problem – give pseudo-code or a textual explanation. Identify the recursive step, the base case and the rejection conditions. Explain speed-up tricks that you have considered to improve the efficiency of your approach)

2. Data structures
(Describe the main data structures that you have used in your approach.)

3. Correctness
(In case you have achieved 200 points, justify why your approach is correct. In case you got "Wrong Answer" or "Time Limit Exceed" in some cases, explain why this happened and what could have been done to improve your approach)

4. Algorithm Analysis
(Give the overall memory and time complexity of your approach, in particular, that of the recursive step and the base case)

5. References
(Provide all the bibliography and internet links that you have used to support the development of your approach)