# Technical Document

(See SAGs Appendix G – 12.4.16)

## 4.1.1 Externally Sourced Code

This must be present even if the candidate only declares that no external code has been used. No more than 20% of the code may be from an external source.

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| **[1]** | Candidate has declared externally sourced code. This can be confirmed with an interview incorporating oral review of code and techniques. |
| **[0]** | Not present. |

## 4.1.2 Explanation of Critical Algorithms

The core algorithms that are critical to the correct functioning of the program.  
There may be a few, or even only one critical algorithm.  
Each algorithm must be done using correct convention and must have an explanation. Programming code is NOT acceptable.

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| **[3]** | Algorithm(s) with correct IEB convention, and clear explanation(s) as to why algorithm(s) is critical. |
| **[1-2]** | Algorithm(s) contain errors or not done according to IEB convention and/or explanation(s) as to why algorithm(s) is critical, is not clear. |
| **[0]** | No algorithms(s) and explanation(s). |

## 4.1.3 Advanced Techniques

A minimum of TWO techniques that are NOT part of the syllabus.   
The code and an explanation for each technique, must be provided.

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| **[3-4]** | A good explanation of at least TWO techniques not in the syllabus. Code for techniques is not superficial. |
| **[1-2]** | Candidate has listed techniques in the syllabus or techniques not clearly explained or code for techniques are superficial. Only one significant advanced technique is included. |
| **[0]** | Not present. |