Derivation of Algorithms
CA 2 – Deriving programs
(Replacing a constant with a variable)
10%

Question

Given an integer array f[0..N), where {N >= 0}, determine if all the array elements are greater than 100.

Your answer should contain the following parts:

Specification	[5 marks]
Invariant	[2 marks]
Outline solution	[5 marks]
S0; derivation	[5 marks]
S1; derivation	[6 marks]
Proof of termination	[2 marks]
Total	[25 marks]

Deliverables

Please upload a typed PDF version of your solution. This is an individual assignment. Any evidence of plagiarism will result in a grade of zero for all students involved. Please include a signed declaration form with your submission (form can be found on the MOODLE page).

Deadline Sunday 8th of December