* LP Tableux Writer
* Simplex solver
* Transportation problem solver
* Allocation problem solver
* All available as .g3a files for Casio Graphical calculators

Casio Decision Mathematics Suite

# Analysis

## Problem Identification

Myself and my friends in our Further Mathematics class have encountered a problem with the Decision Mathematics modules. It is difficult to check if the answers we have given to questions are correct as the questions are complicated and the algorithms in use have multiple steps involved. It is easy to make a mistake while going through the steps of these algorithms and it causes some confusion as to what the correct answer is. This is where it would be useful to have applications available to us in the lesson that can solve these problems for us. 4 of the 5 of us in the class have available to us a Casio FX-CG50 graphical calculator, which can have graphical programs written for it using the SDK.

The project aim is to create a suite of applications to solve all of the problems available in the Edexcel Further Mathematics Decision module. These applications can be installed onto the Casio calculators and used as any other program on the calculator would be.

## Stakeholders

The stakeholders in this project would be myself and my classmates. Each of us would be capable of checking, testing and evaluating the individual applications and I would be able to frequently get new feedback from them.

Every one of us has a use for it as an academic tool – it will allow us to write our own questions for revision and also mark them ourselves.

## Research