## AQA Computer Science A-Level 4.3.6 Optimisation algorithms Past Paper Questions

## Additional Spec Qs Paper 1

0 1 Table 1 contains a list of problems.

## Table 1

Letter	Problem
Α	Finding the shortest route that visits all nodes in a graph exactly once
В	Finding the shortest path between two nodes in a graph
С	Finding an item in a large unordered list
D	Finding a route between two nodes in a graph
E	Finding out if any program will eventually stop if given a particular input

0 1 . 1	State the letter (A-E) that corresponds to the problem that Dijksta's Algorithm is designed to solve.
	Write the letter corresponding to the correct answer in the box provided in your Electronic Answer Document.
	[1 mark]
0 1 . 2	State the letter (A-E) that corresponds to an intractable problem.
	Write the letter corresponding to the correct answer in the box provided in your Electronic Answer Document.  [1 mark]
0 1 . 3	Explain the significance of problem E for computation.  [1 mark]