AQA Computer Science A-Level

4.2.7 Dictionaries

Past Paper Mark Scheme

Additional Specimen Paper 1
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05	1	**Mark is for AO2 (apply)** Katherine Hepburn;	1

05	2	**Mark is for AO2 (apply)** 52;	1

05	3	**All marks AO1 (knowledge)** Hashing algorithm is applied to the key; The result is an index of where to store the value in an array; It is possible that the hashing algorithm might generate the same key for two different values (this is called a collision); in which case a collision handling method (**A.** example of collision handling method) is used;	4

05	4	**All marks AO1 (knowledge)** A larger hash table is created; Each value in the existing table is inserted into the new table; In a position determined by a new hashing algorithm; **A.** In a position determined by the same algorithm but with larger table size;	3

05	5	**Mark for AO1 (understanding)** By making the value be a data structure (**A.** any suitable example of data structure) that allows more than one catalogue number to be stored (this is necessary because it is not possible to have multiple instances of a key in a dictionary)	1