AQA Computer Science A Level
4.12.3 Writing functional programs

Flashcards

Which of the following is not true of first-class objects?

1. They can appear in expressions
2. They can be assigned to a data type
3. They can be assigned as arguments
4. They can be returned in function calls

Which was not true of first-class objects?

2

What name is given to the set of outputs from a function?

What name is given to the set of outputs from a function?

Co-domain

Which part of this type signature is the argument type?

$$f : \ A \ \rightarrow \ B$$

Which part of this type signature is the argument type? f : A → B

A

What name is given to the set of inputs to a function?

What name is given to the set of inputs to a function?

Domain

$$f\,x \;=\; 4x \qquad g\,x \;=\; \frac{x}{2}$$

What is g ○ f?

What is g ○ f?

$$2x$$

What do functional programs use as first-class objects?

What do functional programs use as first-class objects?

Functions

What name is given the process of giving particular input to a function?

What name is given the process of giving particular input to a function?

Function application

What must be true of two functions if they are to be combined?

What must be true of two functions if they are to be combined?

The domain of one of the functions must be the same as the co-domain of the other function