

AQA Computer Science A Level 4.4.3 Context-free languages

Flashcards

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What name is given to the rules that define how symbols can be replaced by other symbols?







What name is given to the rules that define how symbols can be replaced by other symbols?

Production rules







Which of the following is an example of a production rule?



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Which is an example of a production rule?







What type of object is enclosed in angle brackets in Backus-Naur form?







What type of object is enclosed in angle brackets in Backus-Naur form?

Non-terminal

(Meta-components, syntactic variables)







What name is given to an object in Backus-Naur form that cannot be broken down further?







What name is given to an object in Backus-Naur form that cannot be broken down further?

Terminal







Which of the following examples is in valid Backus-Naur form?

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Which of the examples is in valid Backus-Naur form?







Why is it that Backus-Naur form is capable of representing some languages that cannot be represented by regular expressions?







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Backus-Naur form supports recursion







What is represented by ellipses in syntax diagrams?







What is represented by ellipses in syntax diagrams?

Terminals







Which of the following examples uses recursion?

A) <Number> ::= <Digit> | <Digit><Number>
B) <Name> ::= <Forename><Surname>
C) <Age> ::= <Digit>|<Digit><Digit>







Which of the examples uses recursion?







Which shape represents non-terminals in syntax diagrams?







Which shape represents non-terminals in syntax diagrams?

Rectangle



