

Trang của tôi / Khoá học / Học kỳ I năm học 2021-2022 (Semester 1 - Academic year 2021-2022)

- / Đại Học Chính Qui (Bacherlor program (Full-time study))
- / Khoa Khoa học và Kỹ thuật Máy tính (Faculty of Computer Science and Engineering) / Khoa Học Máy Tính
- / Nguyên lý ngôn ngữ lập trình (CO3005) Nguyễn Hứa Phùng (DH_HK211) / 3-Syntax Analysis / Kiểm tra văn phạm

```
Đã bắt đầu vàoTuesday, 31 August 2021, 7:00 AMLúcTình trạngĐã hoàn thànhHoàn thành vàoTuesday, 31 August 2021, 7:15 AMLúcThời gian thực14 phút 51 giâyhiện4,33 của 10,00 (43%)
```

Câu hỏi **1**Hoàn thành
Điểm 1,00 của 1,00

Assume that NOTOP is a prefix unary operator, which grammar is valid for an expression using NOTOP?

Chọn một:

 \bigcirc a. exp ightarrow term NOTOP | term

term → BOOLLIT | LP exp RP

 \bigwedge b. exp \rightarrow NOTOP term | term

 $\mathsf{term} \to \mathsf{BOOLLIT} \ | \ \mathsf{LP} \ \mathsf{exp} \ \mathsf{RP}$

 \bigcirc c. exp \rightarrow exp NOT DP term | term

 $\mathsf{term} \to \mathsf{BOOL}$ IT | LP exp RP

 $\, igcup \,$ d. exp $\,
ightarrow \,$ term NOTQP exp | term

 $\mathsf{term} \to \mathsf{BOOLL}$ f | LP exp RP

Câu hỏi **2**Hoàn thành
Điểm 0,00 của 1,00

Which is NOT the unambiguous grammar of a CM-separated list of ID?

Chọn một hoặc nhiều hơn:

 \square a. idl \longrightarrow ID (CM ID)*

 \square b. idl \rightarrow ID idlist

 $\mathsf{idlist} \to \mathsf{CM} \; \mathsf{ID} \; \mathsf{idlist} \; \mathsf{|} \in$

 \checkmark c. idl \rightarrow ID CM idl | ID | \in

lacksquare d idl \rightarrow ID CM idl \mid ID

Câu hỏi **3**

Hoàn thành

Điểm 1,00 của 1,00

Given the productions of grammar G as follows:

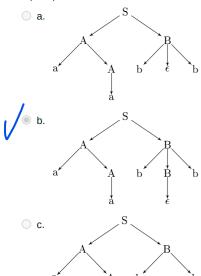
S → AB

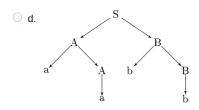
 $A \rightarrow a A \mid a$

 $B \rightarrow b B b | \epsilon$

Select the parse tree of the input string aabb?

Chọn một:





Câu hỏi 4	
Hoàn thành Điểm 1,00 của 1,00	
Given the production	ns of grammar G follows:
S → B A	
A → a A a	
B → b c	
Select the CORRECT	T leftmost derivation so that G can generate string caaaa?
Chọn một:	
a. S => BA => E	BaA => BaaA => caaaA => caaaA => caaaa
○ b. S => BA => E	BaA => BaaA => BaaaA => Baaaa => caaaa
c. S => BA => c.	A => caA => caaA => caaaA => caaaa
O d. S => BA => c.	A => caaaa
Câu hỏi 5	
Không trả lời	
Chấm điểm sửa 1 00	
Chain diem cua 1,00	
Use BNF format to co	omplete productions to describe a nullable comma-separated list of expressions. The non-terminal symbol for the list of
Use BNF format to co	st, the grammar symbol for an expression is exp, and COMMA is for a comma.
Use BNF format to confidence expressions is explis Please fill in the right	st, the grammar symbol for an expression is exp, and COMMA is for a comma. thand sides of exprime to complete the productions of a nullable comma-separated list of expressions.
Use BNF format to concexpressions is explis Please fill in the right explist -> exp exprime	st, the grammar symbol for an expression is exp, and COMMA is for a comma. thand sides of exprime to complete the productions of a nullable comma-separated list of expressions.
Use BNF format to confidence expressions is explis Please fill in the right	st, the grammar symbol for an expression is exp, and COMMA is for a comma. thand sides of exprime to complete the productions of a nullable comma-separated list of expressions.
Use BNF format to convex expressions is explisis . Please fill in the right explist -> expressions exprime exprime ->	st, the grammar symbol for an expression is exp, and COMMA is for a comma. thand sides of exprime to complete the productions of a nullable comma-separated list of expressions.
Use BNF format to convex expressions is explisit Please fill in the right explist -> exp exprime exprime ->	st, the grammar symbol for an expression is exp , and COMMA is for a comma. thand sides of exprime to complete the productions of a nullable comma-separated list of expressions. The ε
Use BNF format to concexpressions is explise Please fill in the right explist -> exp exprime exprime -> You must follow the format to concern the grammar symbol.	st, the grammar symbol for an expression is exp, and COMMA is for a comma. thand sides of exprime to complete the productions of a nullable comma-separated list of expressions. the \$\epsilon\$ following rules to write the right hand sides to match with the solution:
Use BNF format to consexpressions is explisis Please fill in the right explist -> exp exprime exprime -> You must follow the first there are many right.	st, the grammar symbol for an expression is exp, and COMMA is for a comma. It hand sides of exprime to complete the productions of a nullable comma-separated list of expressions. It is a comma. It hand sides of exprime to complete the productions of a nullable comma-separated list of expressions. It is a comma.
Use BNF format to convex expressions is explisis . Please fill in the right explist -> exp exprime exprime -> You must follow the first follows the first follow the first follows the first follow the first follows the first foll	st, the grammar symbol for an expression is exp, and COMMA is for a comma. It hand sides of exprime to complete the productions of a nullable comma-separated list of expressions. It hand sides of exprime to complete the productions of a nullable comma-separated list of expressions. It hand sides of exprime to complete the productions of a nullable comma-separated list of expressions. It hand sides of exprime to complete the productions of a nullable comma-separated list of expressions. It hand sides to write the right hand sides to match with the solution: It hand sides to write the right hand sides to match with the solution: It has a specific to the right hand sides must be separated by exactly one space. It has a specific to the right hand sides and the right hand sides must be separated by a space, a vertival and then a space expressions of the right hand sides (RHS), these RHS must be separated by a space, a vertival and then a space expressions of the right hand sides (RHS), these RHS must be separated by a space, a vertival and then a space expressions of the right hand sides (RHS), these RHS must be separated by a space, a vertival and then a space expressions of the right hand sides (RHS), these RHS with less symbols
Use BNF format to conserve expressions is explised. Please fill in the right explised -> expressions exprime exprime -> You must follow the format follow the follow the follow the follow the follow	st, the grammar symbol for an expression is exp, and COMMA is for a comma. It hand sides of exprime to complete the productions of a nullable comma-separated list of expressions. It is a comma to complete the productions of a nullable comma-separated list of expressions. It is a comma to complete the productions of a nullable comma-separated list of expressions. It is a comma to com
expressions is explisive please fill in the right explist -> exp exprime exprime -> You must follow the first there are many right - The RHS with more - If RHS is empty, please the right - If RHS is empty, please - If RHS is	st, the grammar symbol for an expression is exp, and COMMA is for a comma. It hand sides of exprime to complete the productions of a nullable comma-separated list of expressions. It is a comma to complete the productions of a nullable comma-separated list of expressions. It is a comma to complete the productions of a nullable comma-separated list of expressions. It is a comma to com

Câu hỏi **6** Hoàn thành Điểm -0,33 của 1,00

Which is the grammar of a nullable list (no separator) of parameters where param is a non-terminal symbol representing a parameter?

Chọn một:

- igcup a. parmlist o param parmlp
 - $\operatorname{parmlp} \to \operatorname{SM} \operatorname{param} \operatorname{parmlp} | \in$
- \bigcirc b. parmlist \rightarrow param parmlp \mid \in
 - parmlp ightarrow SM param parmlp | param
- lacktriangledown c. parmlist ightarrow param parmlp
 - parmlp \rightarrow param parmlp $| \in$
- $parmlp o param parmlp \mid$ \in

Câu hỏi **7**

Hoàn thành

Điểm -0,33 của 1,00

A grammar is invalid when it cannot generate a string of terminal symbols. Which grammar is invalid?

Chọn một:

The empty string is not a terminal symbol

 $@ \ a.\ s \rightarrow A\ s\ B\ r\ |\ D$

 $r \mathop{\rightarrow} B \, r \, | \in$

 \bigcirc b. s \rightarrow A s | t

 $r \to B \; r \mid C$

 \bigcirc c.s \rightarrow As|Br|D



Câu hỏi **8**

Hoàn thành

Điểm 0,00 của 1,00

Given the following grammar G where the terminal set is{ADD,MINUS,MUL,DIV,LB,RB}, the non-terminal set is {exp,term,fact}, the start symbol is exp, and the production set is:

exp → term MINUS exp | term

term → term ADD fact | term MUL fact | fact

fact → factor DIV fact | factor

factor → LB exp RB | INT

Let INT be the token of integers, ADD of '+', MINUS of '-', MUL of '*', DIV of '/', LB of '(' and RB of ')'.

Determine the precedence and association of operators so that write the result of the following expression in the blank:

Câu trả lời: $|_{109}$

Câu hồi 9	
Hoàn thành	
Điểm 1,00 của 1,00	

Given the following grammar G where the terminal set is{ADD,MINUS,MUL,DIV,LB,RB}, the non-terminal set is {exp,term,fact}, the start symbol is exp, and the production set is:

 $exp \rightarrow term MINUS exp | term$

term \rightarrow term ADD fact | term MUL fact | fact

fact \rightarrow factor DIV fact | factor

factor → LB exp RB | INT

Let INT be the token of integers, ADD of '+', MINUS of '-', MUL of '*', DIV of '/', LB of '(' and RB of ')'.

Determine the precedence and association of operators so that write the result of the following expression in the blank:

123 - 4 + 32 / 16 / 2 * 3 - 10 ?



Câu hỏi **10** Hoàn thành

Điểm 1,00 của 1,00

Which string can be generated by the following grammar?

 $s \longrightarrow A s B \mid n$

 $n \rightarrow CI \in$

Chọn một:

- a. AAA—ВВВ
- O b. AAnBB
- c. AAABBB
- Od. AACBBB

▼ Tutorial

Chuyển tới...

Syntax tutorial code ▶

Copyright 2007-2020 BKĐT-Đại Học Bách Khoa Tp.HCM. All Rights Reserved. Địa chỉ: Nhà A1- 268 Lý Thường Kiệt, Phường 14, Quận 10, Tp.HCM. Email: elearning@hcmut.edu.vn Phát triển dựa trên hệ thống Moodle