

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

- / <u>Đại Học Chính Qui (Bacherlor program (Full-time study))</u>
- / 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

Điểm	<b>4,33</b> của 10,00 ( <b>43</b> %)	
hiện		
Thời gian thực	14 phút 51 giây	
lúc		
Hoàn thành vào	Tuesday, 31 August 2021, 7:15 AM	
Tình trạng	Đã hoàn thành	
lúc		
Đã bắt đầu vào	Tuesday, 31 August 2021, 7:00 AM	

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:

igcup a. exp ightarrow term NOTOP | term

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

lacksquare b. exp ightarrow NOTOP term | term

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

 $\, \bigcirc \,$  c. exp  $\rightarrow$  exp NOTOP term | term

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

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

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

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:

- ${\color{red}\mathbb{Z}}$  a. idl  $\rightarrow$  ID (CM ID)\*
- lacksquare b. idl ightarrow ID idlist

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

- $\hfill \Box$  c. idl  $\rightarrow$  ID CM idl | ID |  $\in$
- $\blacksquare$  d. idl  $\to$  ID CM idl | ID

Câu hỏi **3** 

Hoàn thành

Điểm 1,00 của 1,00

Given the productions of grammar  $\ensuremath{\mathsf{G}}$  as follows:

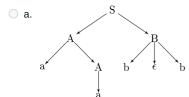
S → AB

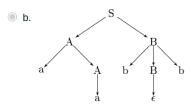
 $A \rightarrow a A \mid a$ 

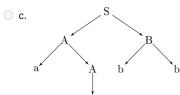
 $B \rightarrow b B b | \epsilon$ 

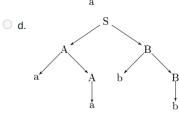
Select the parse tree of the input string aabb?

Chọn một:

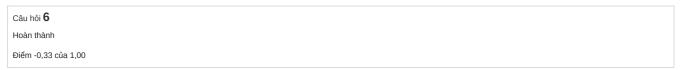








Câu hỏi <b>4</b>	
Hoàn thành Điểm 1,00 của 1,00	
Given the production	ns of grammar G follows:
S → B A	
A → a A   a	
B → b   c	
Select the CORRECT	T leftmost derivation so that G can generate string caaaa?
Chọn một:	
a. S => BA => E	BaA => BaaA => caaaA => caaaA => caaaa
○ b. S => BA => E	BaA => BaaA => BaaaA => Baaaa => caaaa
c. S => BA => c.	A => caA => caaA => caaaA => caaaa
O d. S => BA => c.	A => caaaa
Câu hỏi <b>5</b>	
Không trả lời	
Chấm điểm sửa 1 00	
Chain diem cua 1,00	
Use <b>BNF</b> format to co	omplete productions to describe a nullable comma-separated list of expressions. The non-terminal symbol for the list of
Use <b>BNF</b> format to co	st, the grammar symbol for an expression is exp, and COMMA is for a comma.
Use <b>BNF</b> format to confidence expressions is <b>explis</b> 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 <b>BNF</b> format to concexpressions is <b>explis</b> 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 <b>BNF</b> format to confidence expressions is <b>explis</b> 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 <b>BNF</b> format to convex expressions is <b>explisis</b> . 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 <b>BNF</b> format to convex expressions is <b>explisit</b> Please fill in the right explist -> exp exprime exprime ->	st, the grammar symbol for an expression is <b>exp</b> , and COMMA is for a comma.  thand sides of <b>exprime</b> 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 <b>BNF</b> format to consexpressions is <b>explisis</b> 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 <b>BNF</b> format to convex expressions is <b>explisis</b> . 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 exymbols must write before 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 first follow the f	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.	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



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

## Chọn một:

- $\bigcirc$  a. parmlist  $\rightarrow$  param parmlp
  - $\mathsf{parmlp} \to \mathsf{SM} \; \mathsf{param} \; \mathsf{parmlp} \; \mathsf{|} \in$
- $\bigcirc$  b. parmlist  $\rightarrow$  param parmlp  $\mid$   $\in$ 
  - parmlp ightarrow SM param parmlp | param
- lacktriangledown c. parmlist ightarrow param parmlp
  - $\mathsf{parmlp} \to \mathsf{param} \; \mathsf{parmlp} \; \mathsf{|} \in$
- $\bigcirc$  d. parmlist  $\rightarrow$  param parmlp  $\mid$   $\in$ 
  - parmlp ightarrow param parmlp |  $\in$

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:

- $@ \ a.\ s \rightarrow A\ s\ B\ r\ |\ D$ 
  - $r \to B \ r \mid \ \in$
- $\bigcirc$  b. s  $\rightarrow$  A s | t
  - $r \to B \: r \: | \: C$
- $\bigcirc$  c.s  $\rightarrow$  As|Br|D
  - $r \rightarrow Br|C$
- $\bigcirc$  d. s  $\longrightarrow$  B r
  - $r \rightarrow Brl \in$

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:

123 - 4 + 32 / 16 / 2 \* 3 - 12 ?

Câu trả lời: 109

, = 0 = 1 , = 0 : 1 0	The state of the s
Câu hỏi <b>9</b>	
Hoàn thành	
Điểm 1,00 của 1,00	
	e 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:
123 - 4 + 32 / 16 / 2 * 3 - 10 ?	
Câu trả lời: 109	
Câu hỏi <b>10</b>	
Hoàn thành	
Điểm 1,00 của 1,00	
Which string can be generated by the follow	ying grammar?
	ing granina.
s - AsB n	
$r \rightarrow ci \in$	
Chọn một:	
a. AAA—BBB	
○ b. AAnBB	
© c. AAABBB	
O d. AACBBB	
Q. 74.0000	
. The state	
▼ Tutorial	
Chuyển tới	

Syntax tutorial code ▶

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