

Exercises - Mozilla

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# Exercises

1. Given a grammar  $G = (\Sigma, V, P, S)$  and a production  $A \rightarrow \alpha$  it holds that  $FIRST(\alpha) = \emptyset$  implies  $A$  is nullable?

TRUE  FALSE

2. A multidimensional array in C is simulated defining 1 dimensional arrays whose elements are arrays. To compute the relative position of one element  $a[i_1, i_2, \dots, i_k]$  the following formula is applied:

- $(i_k + D_k(\dots(i_2 + i_1 * D_2\dots))) * size + base - (L_k + D_k(\dots L_2 + i_2 * D_2 \dots))$
- $(i_k + D_k(\dots(i_3 + (i_2 + i_1 * D_2) * D_3)\dots)) * size + base$

Done

Taskbar: gv: giftl, Mozil, Mathem, Konso, TeX Do, El GIMP

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# Answers

1. Answer to exercise [1](#):

Given a grammar  $G = (\Sigma, V, P, S)$  and a production  $A \rightarrow \alpha$  it holds that  $FIRST(\alpha) = \emptyset$  implies  $A$  is nullable?

FALSE

2. Answer to exercise [2](#):

A multidimensional array in C is simulated defining 1 dimensional arrays whose elements are arrays. To compute the relative position of one element  $a[i_1, i_2, \dots, i_k]$  the following formula is applied:

$$(i_k + D_k(\dots(i_2 + i_1 * D_2\dots))) * size + base - (L_k + D_k(\dots L_2 + i_2 * D_2 \dots))$$

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Done

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