RGPV 2020

What are leftmost and rightmost derivations? Explain with suitable example ?

Grammar:

S → aS / ∈

For generating strings ‘aaa’.

Left most derivation:

A leftmost derivation is obtained by applying production to the leftmost variable in each step.

S → aS

→ aaS (Using S → aS)

→ aaaS (Using S → aS)

→ aaa∈

→ aaa

Right most derivation:

A rightmost derivation is obtained by applying production to the rightmost variable in each step.

S → aS

→ aaS (Using S → aS)

→ aaaS (Using S → aS)

→ aaa∈

→ aaa

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