Quiz 2

$$S \rightarrow aB \mid bA$$
$$A \rightarrow a \mid aS \mid bAA$$
$$B \rightarrow b \mid bS \mid aBB$$

For the CFG given. Which of the following is NOT a right-sentential Form

- aababB
- aaBaBB
- aaBbS
- S
- None of the given options

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GOTO(I, X)=? Let I = CLOSURE({S→a.B}), X = a

- CLOSURE({S→aB.})
- CLOSURE({ B→a.BB})
- CLOSURE({A→a. , A→a.S})
- CLOSURE(I)
- None of the given options

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Considering the given CFG, CLOSURE (I) when I = { A⟶ .bAA}

- I
- {A⟶b.AA, S⟶b.A, B⟶.b, B⟶b.S}
- Empty set
- {A⟶.a, A⟶.aS, A⟶.bAA}
- None of the given options

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With respect to LR parsing, which of the following situation is not possible.

- Getting a shift-shift conflict
- Getting a shift-reduce conflict
- Getting a reduce-reduce conflict
- Inability to shift, hence declare "Parsing Fail"
- None of the given options

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For the given CFG, let the stack at some stage is $ab . Then the LR(0) automaton will be in a state having items

- CLOSURE({B→b. , B→b.S})
- CLOSURE({B→a.BB})
- CLOSURE({A→a. , A→a.S})
- CLOSURE({S→a.B})
- None of the given options

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