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CS3B

CFG-PDA\_Equivalence\_Example.cpp output:

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PS C:\Users\Hyuse\Desktop\Automata Simulations\CFG_AND_PDA_Equivalence> .\CFG-PDA_Equivalence_Example.exe
--- CFG-PDA Equivalence Demo for L = {a^n b^n} ---
Input the number of test cases:
3

Enter a string (e.g., aabb, ab, aab, abb, ba):

Analyzing string: ""
1. PDA Simulator Result: ACCEPT
2. CFG Parser Result:    ACCEPT

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! Success! Both methods agree.
This demonstrates that for this string, the PDA and the CFG are behaving equivalently.

Enter a string (e.g., aabb, ab, aab, abb, ba): aabb

Analyzing string: "aabb"
1. PDA Simulator Result: ACCEPT
2. CFG Parser Result:    ACCEPT

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! Success! Both methods agree.
This demonstrates that for this string, the PDA and the CFG are behaving equivalently.

Enter a string (e.g., aabb, ab, aab, abb, ba): abb

Analyzing string: "abb"
1. PDA Simulator Result: REJECT
2. CFG Parser Result:    REJECT

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! Success! Both methods agree.
This demonstrates that for this string, the PDA and the CFG are behaving equivalently.
PS C:\Users\Hyuse\Desktop\Automata Simulations\CFG_AND_PDA_Equivalence> 
```