

Task 1

Implementing a Context-Free Grammar (CFG) parser that checks if a given string can be derived from the grammar rules.

Input	Output
6 S AB S BA A aaB B Bb B AB B NULL aab	Accepted
6 S AB S BA A aaB B Bb B AB B NULL aba	Rejected

Explanation for Test case 1

$S \rightarrow AB \rightarrow aaB \rightarrow aab$

Task 2

Operator Precedence Parsing

Sample input:

3+4-5

2*4-8/2

15*10%7-2

(122+3)/15-5

Sample output:

2

4

1

3.33