Prove that the following grammar is ambiguous or not.

1. E → E + E | E ∗E | ( E ) | id
2. E → T | E + T

T → F | T ∗ F

F → id | ( E )

1. S→ AB|aaB

A→ a|Aa

B→ b

1. S→ aSbS|bSaS|ϵ
2. S→S(E)|E

E→(S)E|0|1|ϵ

1. S → aS | aSbS | c
2. S → a | b | c | SRS

R → +| −|∗|/