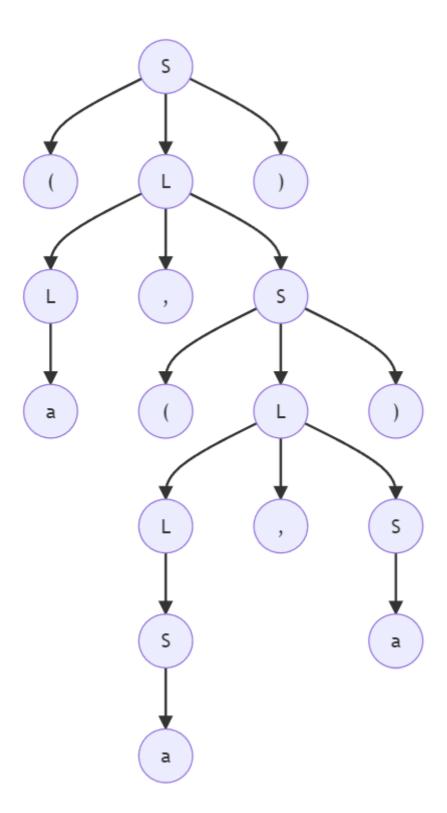
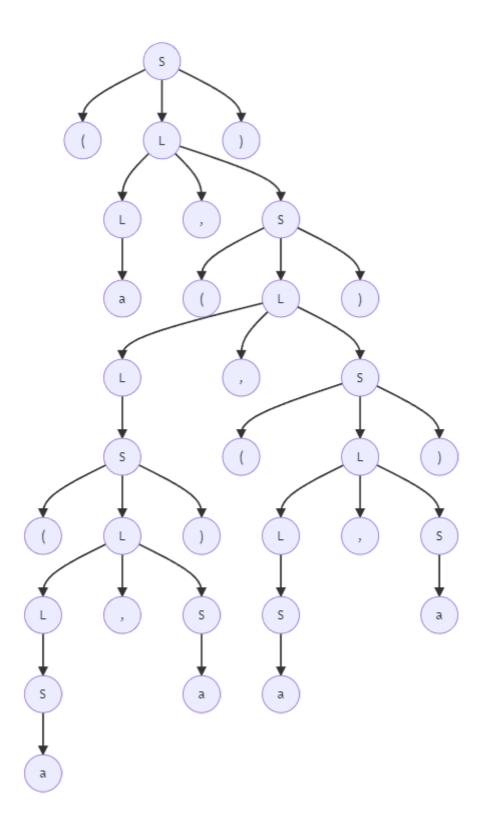
## 1. (a,(a,a))



2. (a,((a,a),(a,a)))



3.1-с

1. (a,(a,a))

$$S->(L)->(L,S)->(L,(L))->(L,(L,S))->(L,(L,a))->(L,(S,a))->(L,(a,a))->(S,(a,a))->(a,(a,a))$$

2. (a,((a,a),(a,a)))

```
S->(L)->(L,S)->(L,(L))->(L,(L,S))->(L,(L,(L)))->(L,(L,(L,S)))->(L,(L,(L,a)))->(L,(L,(S,a)))->(L,(L,(a,a)))->(L,(S,(a,a)))->(L,((L),(a,a)))->(L,((L,S),(a,a)))->(L,((L,a),(a,a)))->(S,((a,a),(a,a)))->(a,((a,a),(a,a)))
```

## 3.2-a

```
S->aSbS->abSaSbS->abaSbS->ababS->abab
S->aSbS->abS->abaSbS->ababS->abab
```

## 3.3

```
S-> not T | T
T-> F and F | F
F-> L or L | L
L-> true | false | (S)
```