

1)

Prefix: `* * a + b c d`

Postfix: `a b c + d * d *`

2) Terminals and non-terminals

$\langle \text{goal} \rangle ::= \langle \text{letter} \rangle \mid \langle \text{letter} \rangle \langle \text{next} \rangle$

$\langle \text{next} \rangle ::= , \langle \text{letter} \rangle$

$\langle \text{letter} \rangle ::= A$

Terminals include: "A" and ",". Non-terminals are $\langle \text{goal} \rangle$, $\langle \text{next} \rangle$, and $\langle \text{letter} \rangle$.

3) Attached separately.

4) Attached separately.

Recursively, my program could only compute up to fibonnaci(40);

Iteratively, I got these:

55.0

1.02334155E8

-2.85007387E8

1.795713797E9

5) $f(0) = 4$

$f(10) = 9$