

INTRODUCTION TO PARSING

Computational mathematics

TOP-DOWN ANALYSIS

Parsing

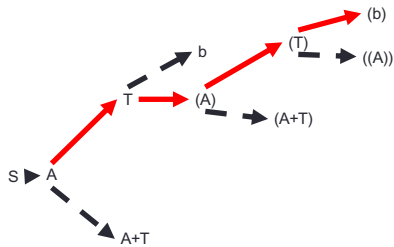
Introduction

- We must find a path in the tree from the root to a leaf.
- This path will indicate that there is a leftmost derivation for the string using the grammar.
- If there is no such path, the string is rejected.

When to finish?

- For the string (b), it can be said that the lowest branch of the tree is useless when a + is found in the strings that are derived.
- Therefore, that branch can be ignored from the since level

When to finish



Remark

- Top-down parsing builds a derivation for any string in the language.
- In spite of this, a grammar with several rules or with rules with bodies with several symbols would make the tree grow quickly.
- Always, we will look for a deterministic search.
