Parsing and Abstract Syntax Tree

Context Free Grammars

Consider the following grammar:

```
S' \rightarrow NP VP

VP \rightarrow V NP

NP \rightarrow NP1 | D NP1

NP1 \rightarrow N | | ADJ NP1

N \rightarrow boy | girl | John | flowers | ...

V \rightarrow sees | likes | ...

ADJ \rightarrow big | small | ...

D \rightarrow a | the
```

- Check whether "today is a cold sunny day" is a valid string.
- Draw the parse tree for this input string.