

Exercise 1

✓ Write a grammar for generating strings of balanced parenthesis.

E.g. “()”, “()()”, “()()”

✓ Given the following grammar

$$\begin{array}{lll} E & \rightarrow & T E' \\ E' & \rightarrow & + T E' \mid \epsilon \\ T & \rightarrow & F T' \\ T' & \rightarrow & * F T' \mid \epsilon \\ F & \rightarrow & (E) \mid \text{id} \end{array}$$

- Define a top-down parse for the expression $\text{id} + \text{id} * \text{id}$
- Define the corresponding left-most derivation

Feature Models

features:

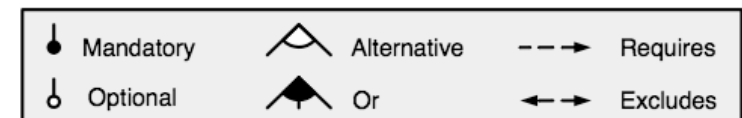
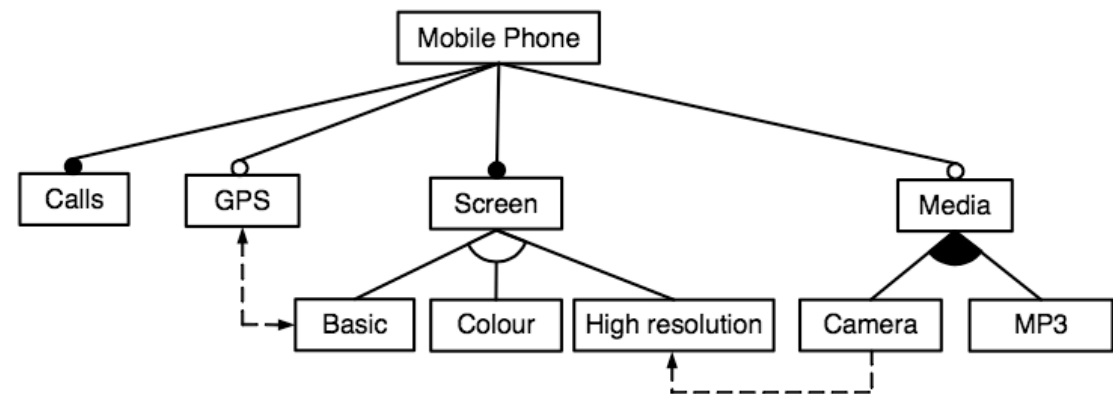
```

MobilePhone {
  Calls,
  [GPS],
  Screen { Basic | Colour | HighResolution },
  [Media { Camera + MP3 }]
}
  
```

cross-tree:

GPS <-> Basic

Camera -> HighResolution



- ✓ Define the grammar
 - ✗ Terminals and non-terminals
 - ✗ Production rules
 - ✗ Start symbol