

Process I/O and redirections

fd reassignment is preserved through fork

BNF Grammar

- terminals: strs of characters in input
- nonterminals: strs of strings
- rules: define how they relate

EX.

$CS61 ::= \text{"CS61 is" emotionword}$

$\text{emotionword} ::= \text{"awesome"} \mid \text{"terrible"}$

Q1. empty language

$\text{shutup} ::=$

Q2. word language

$\text{letter} ::= \text{"a"} \mid \text{"b"} \mid \dots \mid \text{"z"}$

$\text{word} ::= \text{letter} \mid \text{word letter}$

$\mid \text{letter word}$

Q3: parenthesis

$\text{emp} ::= \text{" "}$

$\text{parens} ::= \text{emp} \mid \text{"(" parens ")"} \mid \text{parens parens}$

Pipes

pipe: std output of prog after pipe \rightarrow std output of
prog before pipe