Meeting 3: Recursion

Okay, we get it. You win.

Today
• Your questions
• More Scala crash course
• Functions and pattern matching

Announcements

• Piazza and groups
• Lab 1 due Fri/Sat
• Submit on moodle (exactly 3 files named appropriately) and Cog
• Sign up for interviews
• Interview preparation: 30 minutes; 7 questions: 4 easy, 2 medium, 1 hard; 3 for each person plus 1 together.
• Come up after class to get your partners
• Get to know your whole team: need new partner from your team next lab

Questions
• short code
• Destructive update versus non?
• How to write jsy files?

Lab 1 jsy

\[ e_s = n \mid e_1 + e_2 \mid e_1 - e_2 \mid e_1 \times e_2 \]
\[ e_1 / e_2 \mid -e_1 \]
\[3 + 4 + 5 \downarrow 12\]

\[(1 + 3) + 2 \quad \text{?}
(1 + 3) + 6 \quad \text{?}
\]

\[
\text{val four} = 1 + 3
\]

\[
\text{four} + 2
\]

\[
\text{four} + 5
\]

\[
x + 2
\]

Environment

\[[x \mapsto v, \ldots]\]

\[[\text{four} \mapsto 4]\]
\[ [\text{four} \rightarrow 4] (\text{four} + 2) \downarrow 6 \]

val

environment : mapping from variable to value