CSE 130 (Wi 25) Handout

Jan 14, 2025

Question 1

How shall we implement ADD?

```
• A.let ADD = n - n INC m
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- B.let ADD = $n m \rightarrow INC n m$
- C. let ADD = n n = INC
- \mathbf{D} .let ADD = $n n \pmod{\mathbb{N}}$
- E.let ADD = n n (INC m)

Question 2

How shall we implement MULT?

```
• A.let MULT = n m \rightarrow n ADD m
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- B. let MULT = n n (ADD m) ZERO
- C. let MULT = \n m -> m (ADD n) ZERO
- \mathbf{D} .let MULT = n n (ADD m ZERO)
- E.let MULT = $n m \rightarrow (n ADD m)$ ZERO

Question 3

You can write SUM using numerals but its tedious. Is the below a correct implementation of SUM?

- **A.** Yes
- **B.** No