Practice Midterm Mistakes

CPSC 110

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Mistakes I made on practice midterms.

Mistakes

- 2017W1-MT1
    - Includes `dd-template-rule` that doesn't apply in that situation (`compound`)
    - Does not write helper function in itemization template with `ref` rule
    - Wrong order for `substring` and `string-ith`: should be (`<primitive> String I1 <I2>`)
    - Code does something other than what the question asked
    - ** Does not pass all arguments in Natural Helper, especially ones that are constant **
- 2017W2-MT1
    - Does half a page of work the question does not ask for
    - Only does half of what question asks for

Style

- Write expression on a new line after the `else`
- Use (`zero? n`) instead of (`= n 0`) for recursive Natural functions
- Use given examples/constants!
    - Save time, easier to check, easier to grade

Uncertainties

- =, not =?
- Struct with reference: rules are `compound` and `ref`
- Use primitive type for templates consuming a primitive (`@template String`)
- Include `dd-template-rules` for ALL itemization cases, even if some are the same rule

How to prevent these mistakes

- Double check the connections in code
    - Check where template rules came from
    - Make sure `ref` and `self-ref` generate helper functions
- Memorize order of parameters for primitive functions, AND their names
- Read the question! Make sure you are doing what it asks.
- ** Make sure Natural Helper passes ALL arguments! **