
Module 5a: Naturals

CPSC 110

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Learning goals

- Be able to design functions that operate on natural numbers.
- Be able to design a simple alternative representation for natural numbers.

Notes

For the `Natural` data definition in 01-naturals-starter.rkt:

- Template rules wouldn't normally put `n` by itself in the template, but because our funny “compound” data does NOT have a (`first` `lon`) equivalent, we end up adding `n` ourselves.
 - There must be a way for the first element to **contribute its result!**

For `to-list` with signature `Natural -> ListOfNatural` in 01-naturals-starter.rkt:

- Since `ListOfNatural` is the produced type (as opposed to the consumed type), and the type is so simple, we do not need to write a template for it.

Terminology

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