

POST MORTEM
CS 135 Fall 2025, Assignment 04

Question 3: `morelistfun.rkt`

Mistakes in Contracts:

- Mixing up `Num`, `Rat` and `Nat`.
- Writing `List`, `lst` or `list of` instead of `listof`.
- Writing `Number/number` instead of `Num`.
- Missing brackets.

Question 4: `spells.rkt`

Mistakes in Data Definitions (Q4a):

- Students should remember to capitalize data types like `Spell` and `Spellbook`.
- Students should be using the `anyof` construct for `Spell` and using brackets.
- Multiple formats were accepted for the `Spellbook` definition, but students should be cautious when choosing their format and adhering to it. For example, `listof` requires brackets and using "one of" requires students to explicitly specify the base `empty` case.

Mistakes in Code Style (Q4b):

- Many students used a disallowed recursion in `valid-spellbook?`. These solutions changed both parameters, `available-slots` and `spellbook`, in the recursive call. Although we allow this in the final version, it is clearly stated that we only allow recursion up to the second version in this assignment. Please refer to the [sample solutions](#) for a solution using only valid recursion.

Mistakes in Contracts:

- Writing `(listof Sym)` instead of `Spellbook`.
- Writing `Num` instead of `Nat`.
- Writing `Boolean` instead of `Bool`.
- Missing the `?` in `valid-spellbook?` function name.

Question 5: `horner.rkt`

Mistakes in Contracts:

- Writing `Rat` instead of `Num`.
- Writing `List`, `lst` or `list of` instead of `listof`.
- Missing brackets.