Using optparse-applicative

What are we doing here?

We're going to make a command-line todo list application. This
meetup focuses on understanding and using the library
`optparse-applicative` and writing the command-line argument
parsing portion of that application.

Why `optparse-applicative`?

- well maintained and documented
- lots of blog posts to use to get familiar
- seems fairly "batteries included"
- covers many use cases

Remember Applicative and Alternative

- the `Applicative` pattern proves useful for parsing command line arguments!

  ```
  DataConstructor <$> argument <*> argument
  ```

- and using `Alternative` lets us parse in parallel! This will only fail if *both* parses fail.

  ```
  twoTries :: String -> Maybe Char
  twoTries xs = upper xs <|> numbr xs
  ```

  This turns out to be a great combination for reading command line arguments.