Ashton Fire

Charlie Stainton 08.12.24

Task / Solution

- Task: FDS file reader, output summary
- Solution: Simple Python cmd line program
- Run python fds read.py pre-task.fds in terminal /cmd line

Code / Demo

- Attempted to use Python open-source 'fdsreader' issues
- Own design: OO data structure extensible, data encapsulation
- Structure:
 - Define Model data type with methods for summary/ calculation
 - Read file (line by line) into parameter 'blocks' as string
 - Parse parameter blocks and instantiate Model data object

Issues / Improvements

- Use open source parser Given more time, why didn't this work?
- Made assumptions about data format and structure: block attributes, nesting
- Resorted to parse using regex (due to multiple uses of ',' delimiter)
- (More understanding of data format required)
- More options, other calculations could be easily added to OO structure
- Simplest iteration could be used to further elucidate requirements