Exercise

- Build a program that:

    - Emulates a simple file system.

    - A file has a name, size in bytes, and a type (R, RW, W)

    - A folder has a name and may contain files or folders. Its size is given by the size of the files and folders it contains.

- Improve the program to avoid adding an element e to a folder d if:

    - e is already contained in d, or in any subfolder.

    - d is contained in e, or in any subfolder.