Flowchart for the whole **filename_space_remover** program

Start

get user input source directory

test that user input directory is valid

user input directory valid?

no → print: invalid user input directory abort message

yes

report totals for:
all regular filenames
intra-filename space regular filenames
all directory filenames
intra-filename space directory filenames

totals look credible ?

no → print: check filesystem manually then re-run this program abort message

yes

filenames with spaces still exist ?

no → print: no intra-filename spaces found here, so exiting this program abort message

yes

report listings for:

intra-filename space regular filenames
intra-filename space directory filenames

get user response to whether, based on content of listing report, they would now like to make any investigations and changes to the filesystem while this program is still running.

Stop

```
                              manual fs          no
                              changes to make ───────────┐
                              ?                           │
                                                          │
                          yes│                            │
                             ▼                            │
                        ┌────────────┐                    │
            yes         │ manual fs  │   no               │
         ┌──────────────│ changes done│──────┐            │
         │              │ ?          │       │            │
         │              └────────────┘◄──────┘            │
         │                                                │
         ▼                                                │
   ┌──────────────────────────┐                           │
   │ get user confirmation for the                        │
   │ renaming of up to date listing ◄─────────────────────┘
   │ of intra-space filename files │
   └──────────────────────────┘
                 │
                 ▼
            ┌────────┐       no      ┌────────────────────────────────┐
            │ ok to  │──────────────►│ print:                         │
            │ rename files │         │ You chose not to rename the listed │────────────►
            │ ?      │               │ files, so we're done. Exiting now │
            └────────┘               │ abort message                  │
               yes│                  └────────────────────────────────┘
                  ▼
   ┌──────────────────────────────────┐
   │ rename files with intra-filename spaces │
   └──────────────────────────────────┘
                  │
                  ▼
   ┌──────────────────────────────────────────┐
   │ report totals for:                        │
   │ all regular filenames                     │
   │ intra-filename space regular filenames    │
   │ all directory filenames                   │
   │ intra-filename space directory filenames  │
   └──────────────────────────────────────────┘
                  │
                  ▼
            ┌────────────┐     no      ┌──────────────────────────────┐
            │ filenames  │────────────►│ print:                        │
            │ with spaces still │      │ no files with intra-filename spaces │──────►
            │ exist ?    │             │ found here, so exiting this   │
            └────────────┘             │ program SUCCESS message       │
               yes│                    └──────────────────────────────┘
                  │
                  │                    ┌──────────────────────────────┐
                  └───────────────────►│ print:                        │
                                       │ Unexpected error: spaced files │────────►
                                       │ are still here!               │
                                       │ ABORT message                 │
                                       └──────────────────────────────┘
```