

The lab was programmed in python so it doesn't need to be compiled. There are no arguments to use on the command line, just run it.

Here is an example of creating a new file and two executables to go inside of it.

```
Enter the path of the data file or enter x to exit: newfile.pagerthing
File with that name not found, creating a new one...
E to load an executable
D to dump
L to list
X to enter new data file
e
How many pages does this executable take?15
There is enough space, loading executable into memory
E to load an executable
D to dump
L to list
X to enter new data file
l
Executable 1 located - occupies pages: 0-14
E to load an executable
D to dump
L to list
X to enter new data file
d
Frame 0 is nonempty, belongs to process #1
Frame 1 is nonempty, belongs to process #1
Frame 2 is nonempty, belongs to process #1
Frame 3 is nonempty, belongs to process #1
Frame 4 is nonempty, belongs to process #1
Frame 5 is nonempty, belongs to process #1
Frame 6 is nonempty, belongs to process #1
Frame 7 is nonempty, belongs to process #1
Frame 8 is nonempty, belongs to process #1
Frame 9 is nonempty, belongs to process #1
Frame 10 is nonempty, belongs to process #1
Frame 11 is nonempty, belongs to process #1
Frame 12 is nonempty, belongs to process #1
Frame 13 is nonempty, belongs to process #1
Frame 14 is nonempty, belongs to process #1
```

```

E to load an executable
D to dump
L to list
X to enter new data file
e
How many pages does this executable take?1
There is enough space, loading executable into memory
E to load an executable
D to dump
L to list
X to enter new data file
l
Executable 1 located - occupies pages: 0-14
Executable 2 located - occupies pages: 15
E to load an executable
D to dump
L to list
X to enter new data file
d
Frame 0 is nonempty, belongs to process #1
Frame 1 is nonempty, belongs to process #1
Frame 2 is nonempty, belongs to process #1
Frame 3 is nonempty, belongs to process #1
Frame 4 is nonempty, belongs to process #1
Frame 5 is nonempty, belongs to process #1
Frame 6 is nonempty, belongs to process #1
Frame 7 is nonempty, belongs to process #1
Frame 8 is nonempty, belongs to process #1
Frame 9 is nonempty, belongs to process #1
Frame 10 is nonempty, belongs to process #1
Frame 11 is nonempty, belongs to process #1
Frame 12 is nonempty, belongs to process #1
Frame 13 is nonempty, belongs to process #1
Frame 14 is nonempty, belongs to process #1
Frame 15 is nonempty, belongs to process #2
E to load an executable
D to dump
L to list
X to enter new data file

```

Here is an example of loading a file that already contains 5 executables and appending a new one to it

```
Enter the path of the data file or enter x to exit: existingfile.txt
E to load an executable
D to dump
L to list
X to enter new data file
l
Executable 1 located - occupies pages: 0
Executable 2 located - occupies pages: 1-2
Executable 3 located - occupies pages: 3-5
Executable 4 located - occupies pages: 6-9
Executable 5 located - occupies pages: 10-14
E to load an executable
D to dump
L to list
X to enter new data file
d
Frame 0 is nonempty, belongs to process #1
Frame 1 is nonempty, belongs to process #2
Frame 2 is nonempty, belongs to process #2
Frame 3 is nonempty, belongs to process #3
Frame 4 is nonempty, belongs to process #3
Frame 5 is nonempty, belongs to process #3
Frame 6 is nonempty, belongs to process #4
Frame 7 is nonempty, belongs to process #4
Frame 8 is nonempty, belongs to process #4
Frame 9 is nonempty, belongs to process #4
Frame 10 is nonempty, belongs to process #5
Frame 11 is nonempty, belongs to process #5
Frame 12 is nonempty, belongs to process #5
Frame 13 is nonempty, belongs to process #5
Frame 14 is nonempty, belongs to process #5
```

```
E to load an executable
D to dump
L to list
X to enter new data file
e
How many pages does this executable take?1
There is enough space, loading executable into memory
E to load an executable
D to dump
L to list
X to enter new data file
l
Executable 1 located - occupies pages: 0
Executable 2 located - occupies pages: 1-2
Executable 3 located - occupies pages: 3-5
Executable 4 located - occupies pages: 6-9
Executable 5 located - occupies pages: 10-14
Executable 6 located - occupies pages: 15
E to load an executable
D to dump
L to list
X to enter new data file
d
Frame 0 is nonempty, belongs to process #1
Frame 1 is nonempty, belongs to process #2
Frame 2 is nonempty, belongs to process #2
Frame 3 is nonempty, belongs to process #3
Frame 4 is nonempty, belongs to process #3
Frame 5 is nonempty, belongs to process #3
Frame 6 is nonempty, belongs to process #4
Frame 7 is nonempty, belongs to process #4
Frame 8 is nonempty, belongs to process #4
Frame 9 is nonempty, belongs to process #4
Frame 10 is nonempty, belongs to process #5
Frame 11 is nonempty, belongs to process #5
Frame 12 is nonempty, belongs to process #5
Frame 13 is nonempty, belongs to process #5
Frame 14 is nonempty, belongs to process #5
Frame 15 is nonempty, belongs to process #6
```