• Add line numbers

- Create "week4" directory in your home directory
- Download "Aladdin.txt" file in your "week4" directory
 - » \$ wget http://www.fpx.de/fp/Disney/Scripts/Aladdin.txt
- Create "Aladdin_num.txt" file which has line numbers preceding all text lines
 - » Format: Number Space | Space Text (i.e. "line" => "number | line")
 - » No new line at the end of file, both files should have the same number of lines
- The argument for the executable can be any file name, but the argument will always end with ".txt".
- Only use open(), read(), write()
- Don't use others such as scanf(), printf(),sprintf(),fscanf(),fprintf(),fopen(),...
 - » This also applies to string and int-to-str functions (itoa, etc.)
 - » Otherwise, zero

```
ALADDIN: THE COMPLETE SCRIPT
COMPILED BY BEN SCRIPPS <34RQNPQ@CMUVM.CSV.CMICH.EDU>
(Portions Copyright (c) 1992 The Walt Disney Company)
PEDDLER: Oh I come from a land
   From a faraway place
   Where the caravan camels roam
   Where they cut off your ear /Where it's flat and immense
   If they don't like your face /And the heat is intense
   It's barbaric, but hey--it's home!
   When the wind's at your back
   And the sun's from the west
   And the sand in the glass is right
   Come on down,
   Stop on by
   Hop a carpet and flv
   To another Arabian night!
```

Aladdin.txt

```
ALADDIN: THE COMPLETE SCRIPT
COMPILED BY BEN SCRIPPS <34RQNPQ@CMUVM.CSV.CMICH.EDU>
(Portions Copyright (c) 1992 The Walt Disney Company)
PEDDLER:
           Oh I come from a land
    From a faraway place
    Where the caravan camels roam
   Where they cut off your ear /Where it's flat and immense
    If they don't like your face /And the heat is intense
    It's barbaric, but hey--it's home!
     When the wind's at your back
     And the sun's from the west
     And the sand in the glass is right
     Come on down,
     Stop on by
     Hop a carpet and fly
     To another Arabian night!
```

Aladdin_num.txt

```
$ ls
ex4
$ wget http://www.fpx.de/fp/Disney/Scripts/Aladdin.txt
$ ls
Aladdin.txt ex4
$ ./ex4 Aladdin.txt
$ ls
Aladdin_num.txt Aladdin.txt ex4
```

- Submit source code of your exercise
 - via iCampus
 - Bundle source code and Makefile with tar command
 - » tar.gz format
 - \$ tar cvzf [student_id].tar.gz week4
 - We'll grade your submission with make
 - » If compilation fails, your points for this exercise will be zero
 - Starting this week, if I cannot extract your file with the tar command, it will be zero, so please make sure you submit the correct file.

Note

- The number of lines might differ depending on which vim is used.
- To make sure the number of lines are the same, run the commands

```
» $ awk -v RS='\text{\psi}r\text{\psi}n' 'END{print NR}' Aladdin.txt
» $ awk -v RS='\text{\psi}r\text{\psi}n' 'END{print NR}' Aladdin_num.txt
```

• The values returned by awk should be the same.