Exercise: File Handling

1. Even Lines

Write a program that reads a text file and prints on the console its even lines. Line numbers start from 0. Before you print the result, replace {"-", ",", "!", "!", "?"} with "@" and reverse the order of the words.

Examples

text.txt	output
-I was quick to judge him, but it wasn't his fault.	fault@ his wasn't it but him@ judge to quick was @I
-Is this some kind of joke?! Is it?	safer@ is It here@ hide @Quick@
-Quick, hide here. It is safer.	

2. Line Numbers

Write a program that reads a text file, inserts line numbers in front of each line, and counts all the letters and punctuation marks. The result should be written to another text file.

Examples

text.txt	output.txt
-I was quick to judge him, but it wasn't his fault.	Line 1: -I was quick to judge him, but it wasn't his fault. (37)(4)
-Is this some kind of joke?! Is it? -Quick, hide here. It is safer.	Line 2: -Is this some kind of joke?! Is it? (24)(4) Line 3: -Quick, hide here. It is safer. (22)(4)

3. File Manipulator

Create a program that will receive commands until the command "End". The commands can be:

- "Create-{file_name}" Creates the given file with an empty content. If the file already exists, remove the existing text in it (as if the file is created again)
- "Add-{file_name}-{content}" Append the content and a new line after it. If the file does not exist, create it, and add the content
- "Replace-{file_name}-{old_string}-{new_string}" Open the file and replace all the occurrences of the old string with the new string. If the file does not exist, print: "An error occurred"
- "Delete-{file name}" Delete the file. If the file does not exist, print: "An error occurred"

Example

Input	Comment
Create-file.txt	The first command creates the empty file
Add-file.txt-First Line	After the first and second Add command, the
Add-file.txt-Second Line	content is:













First Line Replace-random.txt-Some-some Replace-file.txt-First-1st Second Line Replace-file.txt-Second-2nd On the first Replace command, an error must occur Delete-random.txt After the next two Replace commands, the content is: Delete-file.txt 1st Line Fnd 2nd Line After the first Delete command, an error occurs Finally, the 'file.txt' file is deleted

4. Directory Traversal

Write a program that traverses a given directory for all files. Search through the first level of the directory only and write information about each found file in report.txt. The files should be grouped by their extension. Extensions should be ordered by name alphabetically. The files with extensions should also be sorted by name. report.txt should be saved in the chosen directory.

Examples

Input	Directory View	report.txt
•	∨ RESO 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	.html
	∨ Example	index.html
	<> index.html	.js
	JS index.js	index.js
	python.py	.pptx
		demo.pptx
	= demo.pptx	•ру
	≡ log.txt	program.py
	= notes.txt	python.py
	program.py	.txt
		log.txt
		notes.txt













