

Imię i nazwisko:

Etap	1	2	3	4	Suma
Punkty	0	0	0	0	0
Wynik					

## W1: Text filtering

You have received the code for a text filtering program written by another programmer. The previous programmer wrote most of the program's logic, but was unable to deal with some errors. Your goal is to fix these errors and ensure that it works as required.

Original description of program requirements:

Write a program that accepts any string divided by end-of-line characters on standard input. For standard output, it should only print lines that contain at least one occurrence of the pattern specified in the program argument.

Stages:

1. **[0 p.]** Compile the program and check how it works. Notice all errors and warnings shown by compiler.
2. **[0 p.]** Fix problems found in the code and check if the program works as intended.
3. **[0 p.]** Add handling of `W1_LINENUMBER` environment variable. If it has value 1, TRUE, or `true` the program prints line number (in original input) followed by the colon and then the rest of the line, e.g.:  
`5:line with pattern.`
4. **[0 p.]** Add handling of `W1_LOGFILE` environment variable. If it has a value the program should save its output also to the file pointed by the value. If file does not exists the program should create it.