Search for a Word in a File

Scenario:
Write a program that searches for a specific word in a file (`log.txt`) and prints the line numbers where the word appears.

Constraints:

- The word to search for is up to 20 characters.
- `log.txt` has up to 500 lines.

Input:
The word to search for and contents of `log.txt`.

Output:
The line numbers where the word appears.