

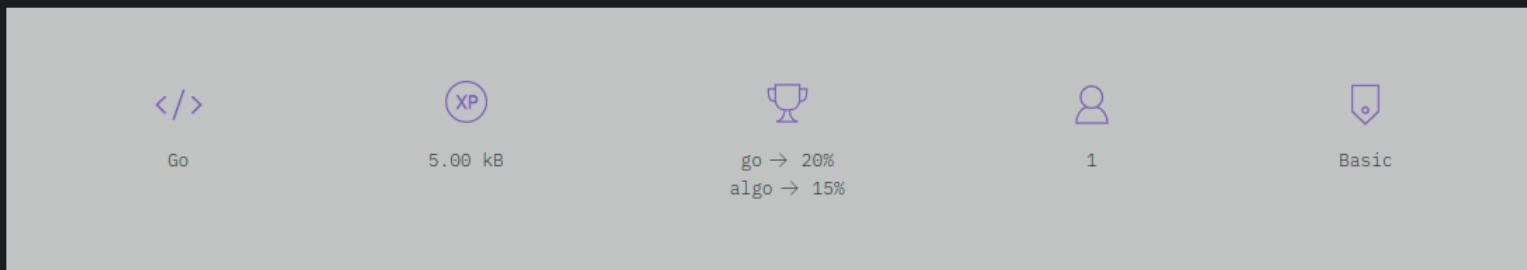
One year ago



go-reloaded

● SUCCEEDED

Repo to create for this project → <https://learn.01founders.co/git/ppjd/go-reloaded>



Welcome back. Congratulations on your admission. We knew you would make it. Now it is time to get into projects.

Objectives

In this project you will use some of your old functions made in your old repository. You will use them with the objective of making a simple text completion/editing/auto-correction tool.

One more detail. This time the project will be corrected by auditors. The auditors will be other students and you will be an auditor as well.

We advise you to create your own tests for yourself and for when you will correct your auditees.

Introduction

- Your project must be written in **Go**.
- The code must respect the good practices.
- It is recommended to have **test files** for unit testing.

The tool you are about to build will receive as arguments the name of a file containing a text that needs some modifications (the input) and the name of the file the modified text should be placed in (the output). Next is a list of possible modifications that your program should execute:

- Every instance of `(hex)` should replace the word before with the decimal version of the word (in this case the word will always be a hexadecimal number). (Ex: "1E (hex) files were added" -> "30 files were added")
- Every instance of `(bin)` should replace the word before with the decimal version of the word (in this case the word will always be a binary number). (Ex: "It has been 10 (bin) years" -> "It has been 2 years")
- Every instance of `(up)` converts the word before with the Uppercase version of it. (Ex: "Ready, set, go (up) !" -> "Ready, set, GO !")
- Every instance of `(low)` converts the word before with the Lowercase version of it. (Ex: "I should stop SHOUTING (low)" -> "I should stop shouting")
- Every instance of `(cap)` converts the word before with the Capitalized version of it. (Ex: "Welcome to the Brooklyn bridge (cap)" -> "Welcome to the Brooklyn Bridge")
 - For `(low)` , `(up)` , `(cap)` if a number appears next to it, like so: `(low, <number>)` it turns the previously specified number of words in lowercase, uppercase or capitalized accordingly. (Ex: "This is so exciting (up, 2)" -> "This is SO EXCITING")
- Every instance of the punctuations `.` , `,` , `!` , `?` , `:` and `;` should be close to the previous word and with space apart from the next one. (Ex: "I was sitting over there ,and then BAMM !" -> "I was sitting over there, and then BAMM!!").
 - Except if there are groups of punctuation like: `...` or `!?`. In this case the program should format the text as in the following example: "I was thinking ... You were right" -> "I was thinking... You were right".
- The punctuation mark `'` will always be found with another instance of it and they should be placed to the right and left of the word in the middle of them, without any spaces. (Ex: "I am exactly how they describe me: ' awesome '" -> "I am exactly how they describe me: 'awesome'")
 - If there are more than one word between the two `'` marks, the program should place the marks next to the corresponding words (Ex: "As Elton John said: ' I am the most well-known homosexual in the world'" -> "As Elton John said: 'I am the most well-known homosexual in the world'")
- Every instance of `a` should be turned into `an` if the next word begins with a vowel or a `h` . (Ex: "There it was. A amazing rock!" -> "There it was. An amazing rock!").

The code

```
+GO main.go  X
+GO main.go > ...
You, 10 months ago | 1 author (You)
1 package main // editing /auto correction tool
2
3 import (
4     "bufio"
5     "fmt"
6     "log"
7     "os"
8     "strconv"
9     "strings"
10 )
11
12 func stringremove(slice []string, s int) []string { // Removes a string from a slice of string
13     return append(slice[:s], slice[s+1:] ... )
14 }
15
16 func runeremove(slice []rune, s int) []rune { // Removes a string from a slice of string
17     return append(slice[:s], slice[s+1:] ... )
18 }
19
20 func main() { // open and scan
21     var strarr []string
22     file, err := os.Open(os.Args[1])
23     if err != nil {
24         log.Fatal(err)
25     }
26     defer file.Close()
27     fileScanner := bufio.NewScanner(file)
28     fileScanner.Split(bufio.ScanWords)
29     for fileScanner.Scan() {
30         strarr = append(strarr, fileScanner.Text())
31     }
32
33     if err := fileScanner.Err(); err != nil {
34         log.Fatal(err)
35     } // calling in functions
36     for i, str := range strarr {
37         // fmt.Println(i, len(str), str)
38         if str == "(hex)" {
39             strarr[i-1] = hexNumberToInteger(strarr[i-1])
40             strarr = remove(strarr, i)
41             i--
42         }
43
44         if str == "(bin)" {
45             strarr[i-1] = bintodecimal(strarr[i-1])
46             strarr = remove(strarr, i)
47             i--
48         }
49
50         if str == "(up)" {
51             strarr[i-1] = toUpper(strarr[i-1])
52             strarr = remove(strarr, i)
53             i--
54         }
55
56         if str == "(low)" {
57             strarr[i-1] = tolower(strarr[i-1])
58     }
```

```
58     strarr = remove(strarr, i)
59     i--
60 }
61
62 if str == "(cap)" {
63     strarr[i-1] = caps(strarr[i-1])
64     strarr = remove(strarr, i)
65     i--
66 }
67
68 // (remove hex/bin etc)
69 if str == "(cap," {
70     x := trimatoi(strarr[i+1])
71     for u := 1; u ≤ x; u++ {
72         strarr[i-u] = caps(strarr[i-u])
73     }
74     strarr = remove(strarr, i)
75     i--
76     strarr = remove(strarr, i+1)
77     i--
78 } // (remove up+number),
79
80 if str == "(up," {
81     x := trimatoi(strarr[i+1])
82     for u := 1; u ≤ x; u++ {
83         strarr[i-u] = toUpper(strarr[i-u])
84     }
85     i--
86     strarr = remove(strarr, i+1)
87     i--
88 }
89
90 if str == "(low," { // remove low
91     x := trimatoi(strarr[i+1])
92     for u := 1; u ≤ x; u++ {
93         strarr[i-u] = tolower(strarr[i-u])
94     }
95     strarr = remove(strarr, i)
96     i--
97     strarr = remove(strarr, i+1)
98     i--
99 }
100
101 } // output amends to result file
102 strarr = punct(strarr)
103 strarr = speech(strarr)
104 strarr = aton(strarr)
105 resultString := strings.Join(strarr, " ")
106 file, err = os.OpenFile(os.Args[2], os.O_WRONLY|os.O_CREATE, 0666)
107 if err != nil {
108     fmt.Println("File does not exists or cannot be created")
109     os.Exit(1)
110 }
111 defer file.Close()
112 file.WriteString(resultString)
113 file.Sync()
114 }
```

```

188     if len(strarr[i]) == 1 && u == 0 {
189         strarr[i-1] += string(strRune)
190         strarr = remove(strarr, i)
191         i--
192     } else if len(strarr[i]) > 1 && u == 0 && !found {
193         strarr[i-1] += string(strRune)
194         srune := []rune(strarr[i])
195         srune = runeremove(srune, u)
196         strarr[i] = string(srune)
197     }
198 }
199 }
200 }
201 return strarr
202 }

// The punctuation mark '""' should not have spaces if there are letters in both sides of it. Otherwise, the mark should be placed
203
204 func speech(strarr []string) []string {
205     quoteFound := false
206     for i := 0; i < len(strarr); i++ {
207         if strarr[i] == "" {
208             if !quoteFound {
209                 strarr[i+1] = "" + strarr[i+1]
210                 strarr = remove(strarr, i)
211                 i-
212                 i-
213                 quoteFound = true
214             } else {
215                 strarr[i+1] = " "
216             }
217         }
218     }
219     // removing instance Every instance of (cap) converts the letter placed before into a capital.
220     func caps(s string) string {
221         s = tolower(s)
222         srune := []rune(s)
223         srune[0] = srune[0] - 32
224         return string(srune)
225     }
226     // replacing every instance of "a" turned into "an" if the next words begins with a vowel or an 'h'
227
228     func atoan(strarr []string) []string {
229         for i, srune := range strarr {
230             for _, rune := range srune {
231                 if (rune == 'a' || rune == 'A') && len(srune) == 1 {
232                     if strarr[i+1][0] == 'a' || strarr[i+1][0] == 'e' ||
233                         strarr[i+1][0] == 'i' ||
234                         strarr[i+1][0] == 'o' ||
235                         strarr[i+1][0] == 'u' ||
236                         strarr[i+1][0] == 'h' {
237                             strarr[i] += "n"
238                         }
239                     }
240                 }
241             }
242         }
243         return strarr
244     }
245 }
246 }
247 }
248 }
249 }
250 }
251

```

