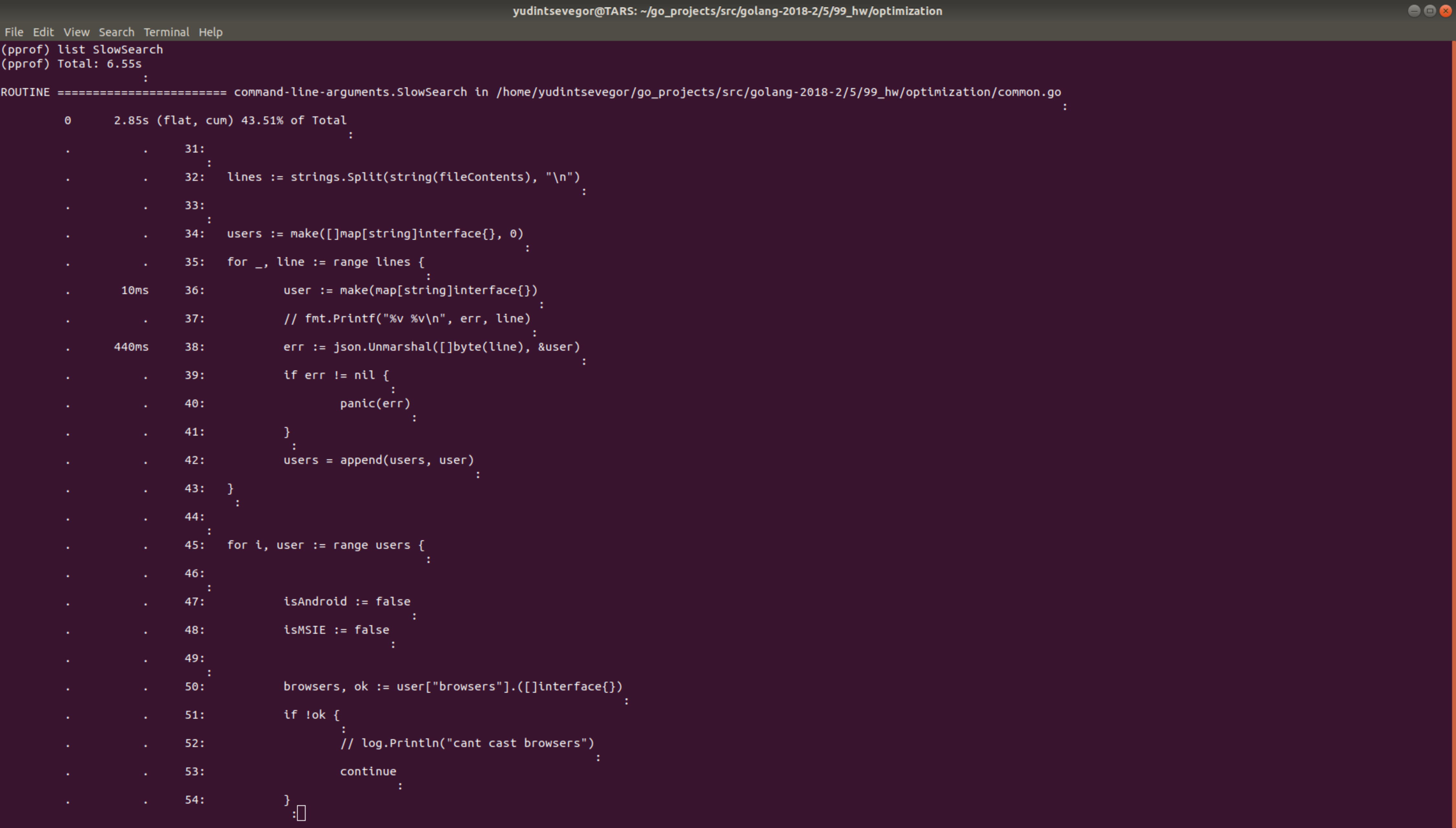
yudintsevegor@TARS: ~/go_projects/src/golang-2018-2/5/99_hw/optimization
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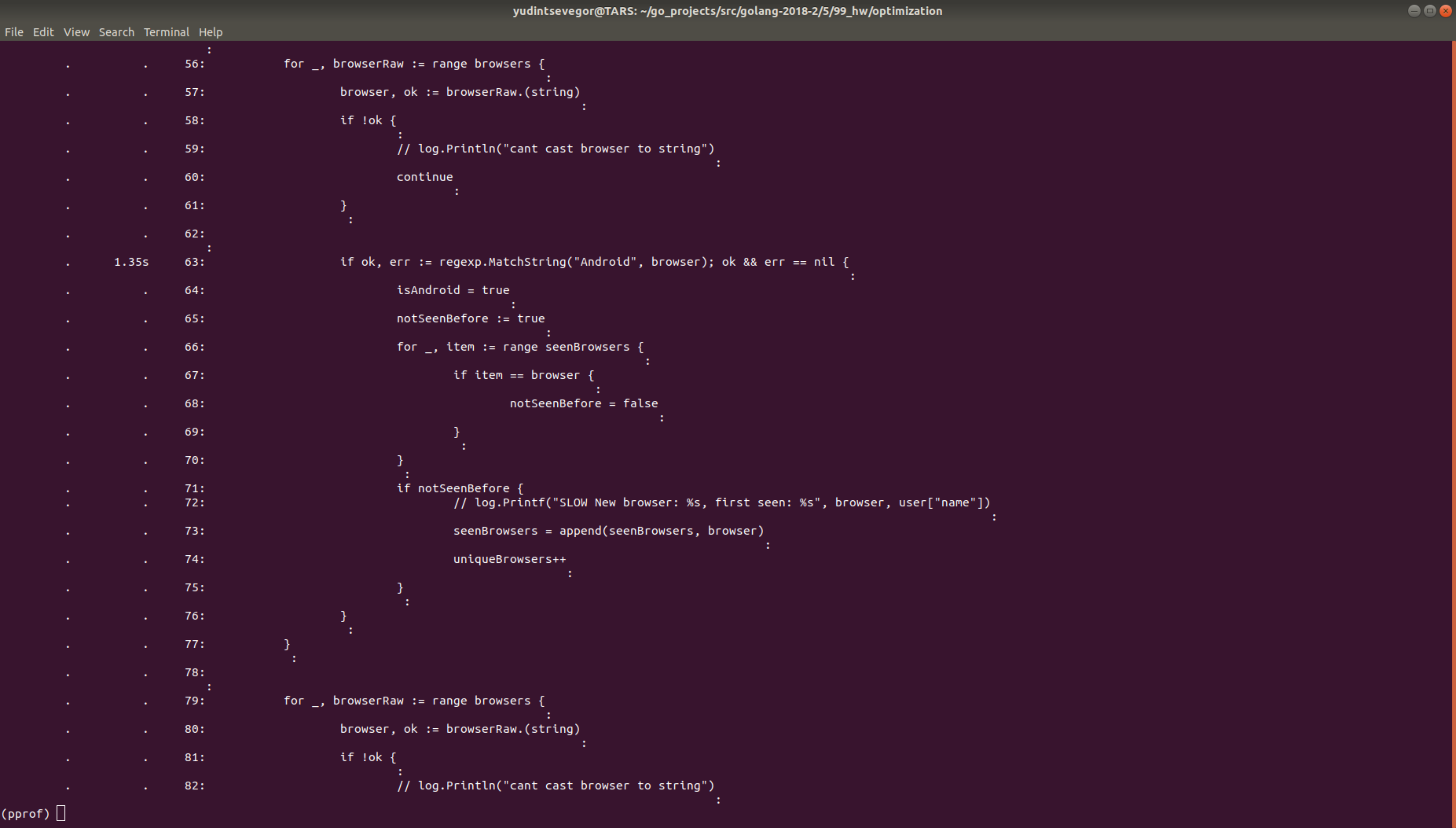
```
(pprof) list SlowSearch
(pprof) Total: 6.55s
                    :
ROUTINE ======================== command-line-arguments.SlowSearch in /home/yudintsevegor/go_projects/src/golang-2018-2/5/99_hw/optimization/common.go
                                                                                                                                                      :
         0      2.85s (flat, cum) 43.51% of Total
                                                 :
         .          .     31:
                             :
         .          .     32:   lines := strings.Split(string(fileContents), "\n")
                                                                                  :
         .          .     33:
                             :
         .          .     34:   users := make([]map[string]interface{}, 0)
                                                                          :
         .          .     35:   for _, line := range lines {
                                                            :
         .       10ms     36:           user := make(map[string]interface{})
                                                                            :
         .          .     37:           // fmt.Printf("%v %v\n", err, line)
                                                                           :
         .      440ms     38:           err := json.Unmarshal([]byte(line), &user)
                                                                                  :
         .          .     39:           if err != nil {
                                                       :
         .          .     40:                   panic(err)
                                                          :
         .          .     41:           }
                                         :
         .          .     42:           users = append(users, user)
                                                                   :
         .          .     43:   }
                                 :
         .          .     44:
                             :
         .          .     45:   for i, user := range users {
                                                            :
         .          .     46:
                             :
         .          .     47:           isAndroid := false
                                                          :
         .          .     48:           isMSIE := false
                                                       :
         .          .     49:
                             :
         .          .     50:           browsers, ok := user["browsers"].([]interface{})
                                                                                        :
         .          .     51:           if !ok {
                                                :
         .          .     52:                   // log.Println("cant cast browsers")
                                                                                    :
         .          .     53:                   continue
                                                        :
         .          .     54:           }
                                         :
```


yudintsevegor@TARS: ~/go_projects/src/golang-2018-2/5/99_hw/optimization
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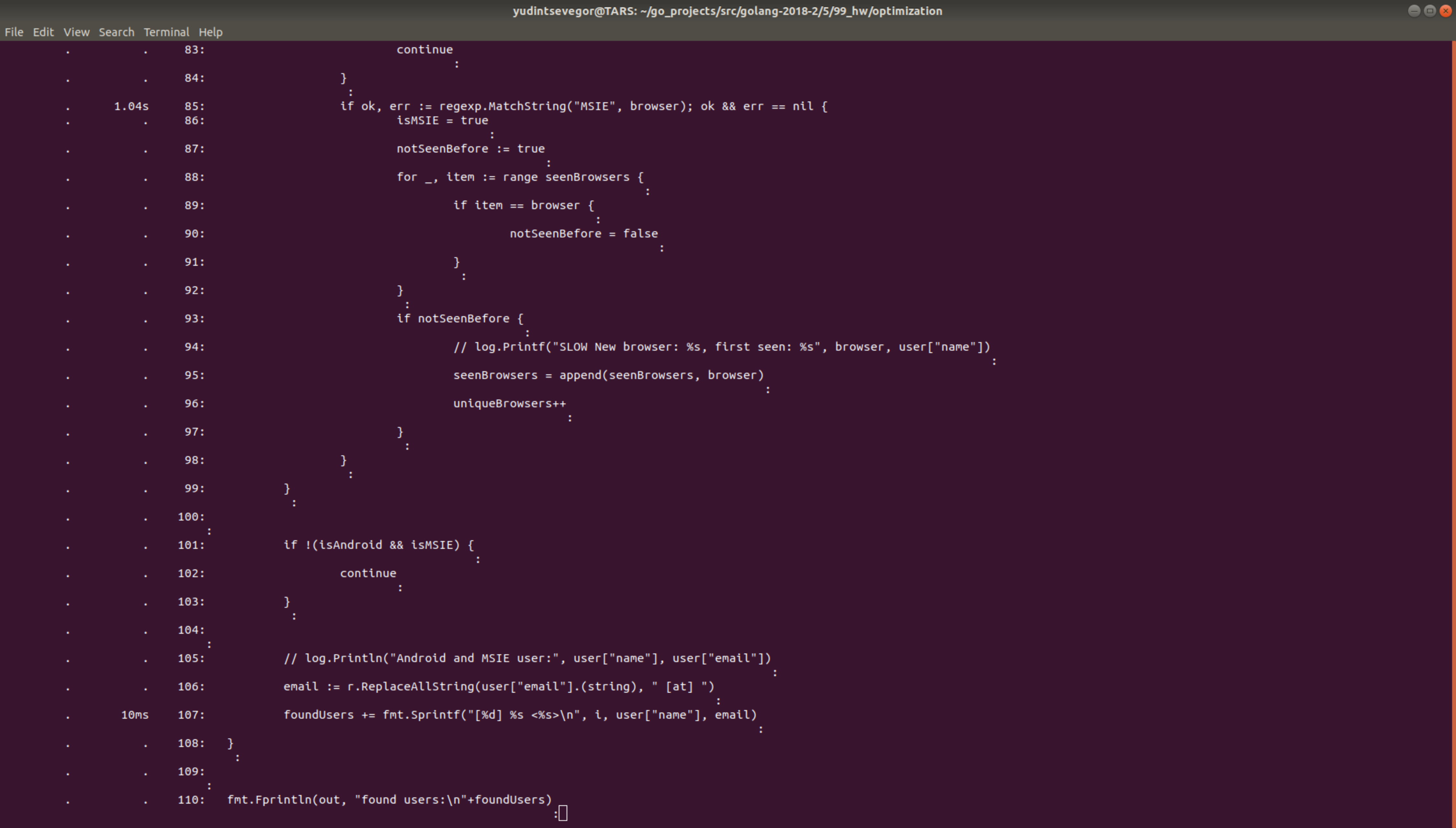
```
                             :
         .          .     56:           for _, browserRaw := range browsers {
                                                                              :
         .          .     57:                   browser, ok := browserRaw.(string)
                                                                                   :
         .          .     58:                   if !ok {
                                                         :
         .          .     59:                           // log.Println("cant cast browser to string")
                                                                                                      :
         .          .     60:                           continue
                                                                 :
         .          .     61:                   }
                                                  :
         .          .     62:
                              :
         .      1.35s     63:                   if ok, err := regexp.MatchString("Android", browser); ok && err == nil {
                                                                                                                         :
         .          .     64:                           isAndroid = true
                                                                         :
         .          .     65:                           notSeenBefore := true
                                                                              :
         .          .     66:                           for _, item := range seenBrowsers {
                                                                                            :
         .          .     67:                                   if item == browser {
                                                                                     :
         .          .     68:                                           notSeenBefore = false
                                                                                              :
         .          .     69:                                   }
                                                                  :
         .          .     70:                           }
                                                          :
         .          .     71:                           if notSeenBefore {
         .          .     72:                                   // log.Printf("SLOW New browser: %s, first seen: %s", browser, user["name"])
                                                                                                                                             :
         .          .     73:                                   seenBrowsers = append(seenBrowsers, browser)
                                                                                                             :
         .          .     74:                                   uniqueBrowsers++
                                                                                 :
         .          .     75:                           }
                                                          :
         .          .     76:                   }
                                                  :
         .          .     77:           }
                                          :
         .          .     78:
                              :
         .          .     79:           for _, browserRaw := range browsers {
                                                                              :
         .          .     80:                   browser, ok := browserRaw.(string)
                                                                                   :
         .          .     81:                   if !ok {
                                                         :
         .          .     82:                           // log.Println("cant cast browser to string")
                                                                                                      :
(pprof) 
```


yudintsevegor@TARS: ~/go_projects/src/golang-2018-2/5/99_hw/optimization
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```
         .          .    83:                            continue
                                                                :
         .          .    84:                    }
                                                 :
         .      1.04s    85:                    if ok, err := regexp.MatchString("MSIE", browser); ok && err == nil {
         .          .    86:                            isMSIE = true
                                                                     :
         .          .    87:                            notSeenBefore := true
                                                                             :
         .          .    88:                            for _, item := range seenBrowsers {
                                                                                           :
         .          .    89:                                    if item == browser {
                                                                                    :
         .          .    90:                                            notSeenBefore = false
                                                                                             :
         .          .    91:                                    }
                                                                 :
         .          .    92:                            }
                                                         :
         .          .    93:                            if notSeenBefore {
                                                                          :
         .          .    94:                                    // log.Printf("SLOW New browser: %s, first seen: %s", browser, user["name"])
                                                                                                                            :
         .          .    95:                                    seenBrowsers = append(seenBrowsers, browser)
                                                                                                            :
         .          .    96:                                    uniqueBrowsers++
                                                                                :
         .          .    97:                            }
                                                         :
         .          .    98:                    }
                                                 :
         .          .    99:            }
                                         :
         .          .   100:
                             :
         .          .   101:            if !(isAndroid && isMSIE) {
                                                                   :
         .          .   102:                    continue
                                                        :
         .          .   103:            }
                                         :
         .          .   104:
                             :
         .          .   105:            // log.Println("Android and MSIE user:", user["name"], user["email"])
                                                                                                             :
         .          .   106:            email := r.ReplaceAllString(user["email"].(string), " [at] ")
                                                                                                     :
         .       10ms   107:            foundUsers += fmt.Sprintf("[%d] %s <%s>\n", i, user["name"], email)
                                                                                                           :
         .          .   108:    }
                                 :
         .          .   109:
                             :
         .          .   110:    fmt.Fprintln(out, "found users:\n"+foundUsers)
                                                                              :
```