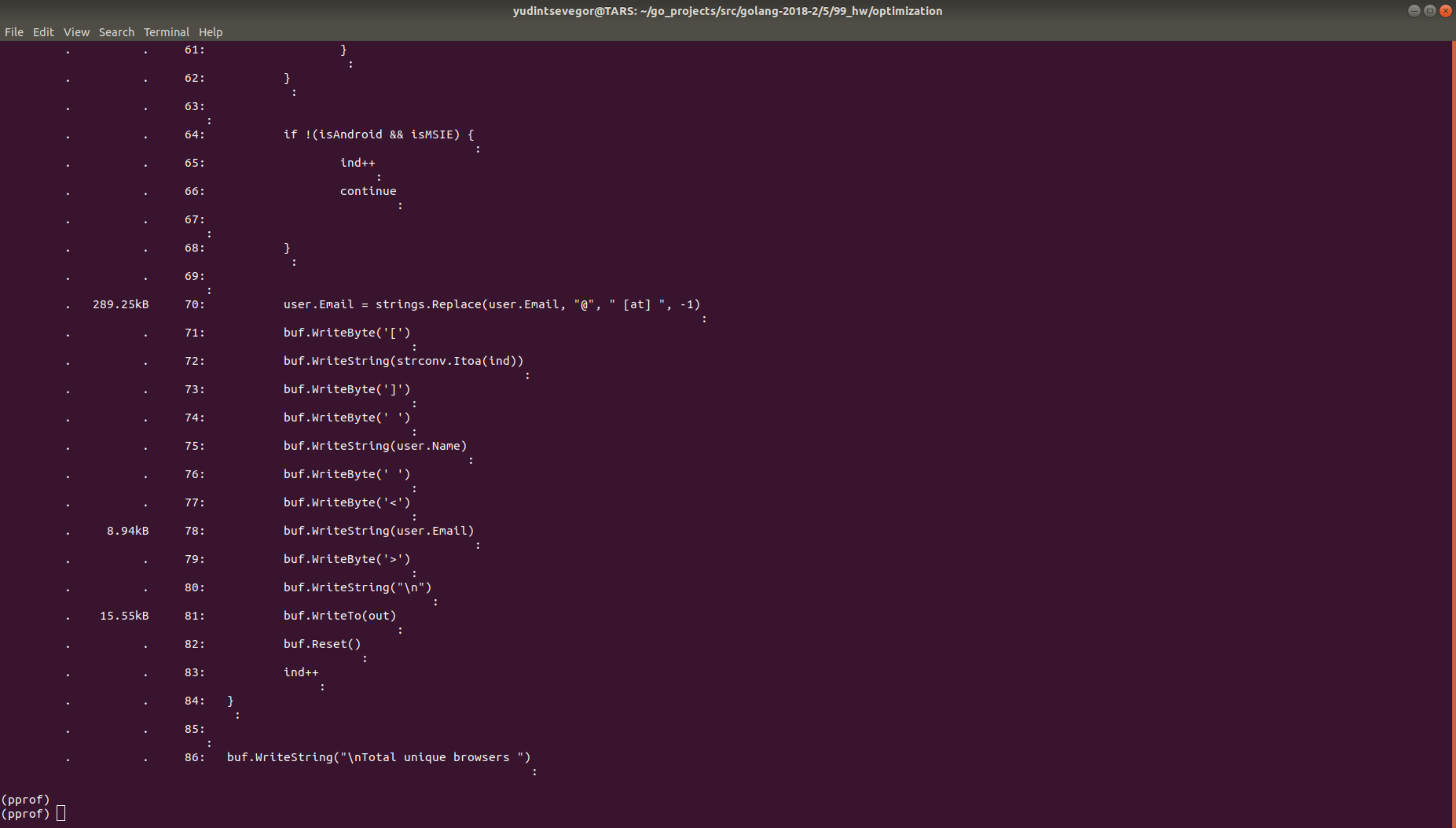
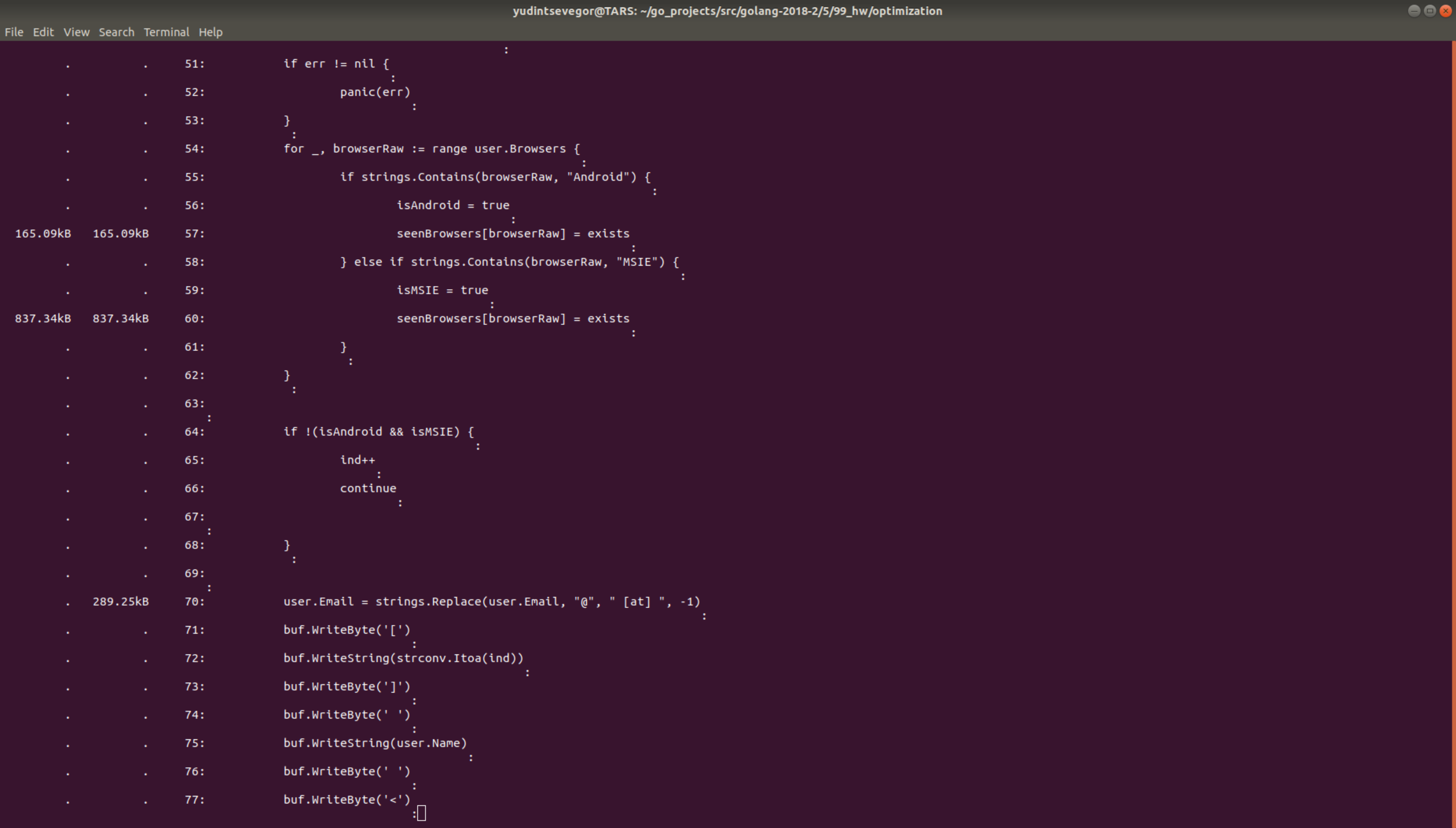


yudintsevegor@TARS: ~/go_projects/src/golang-2018-2/5/99_hw/optimization

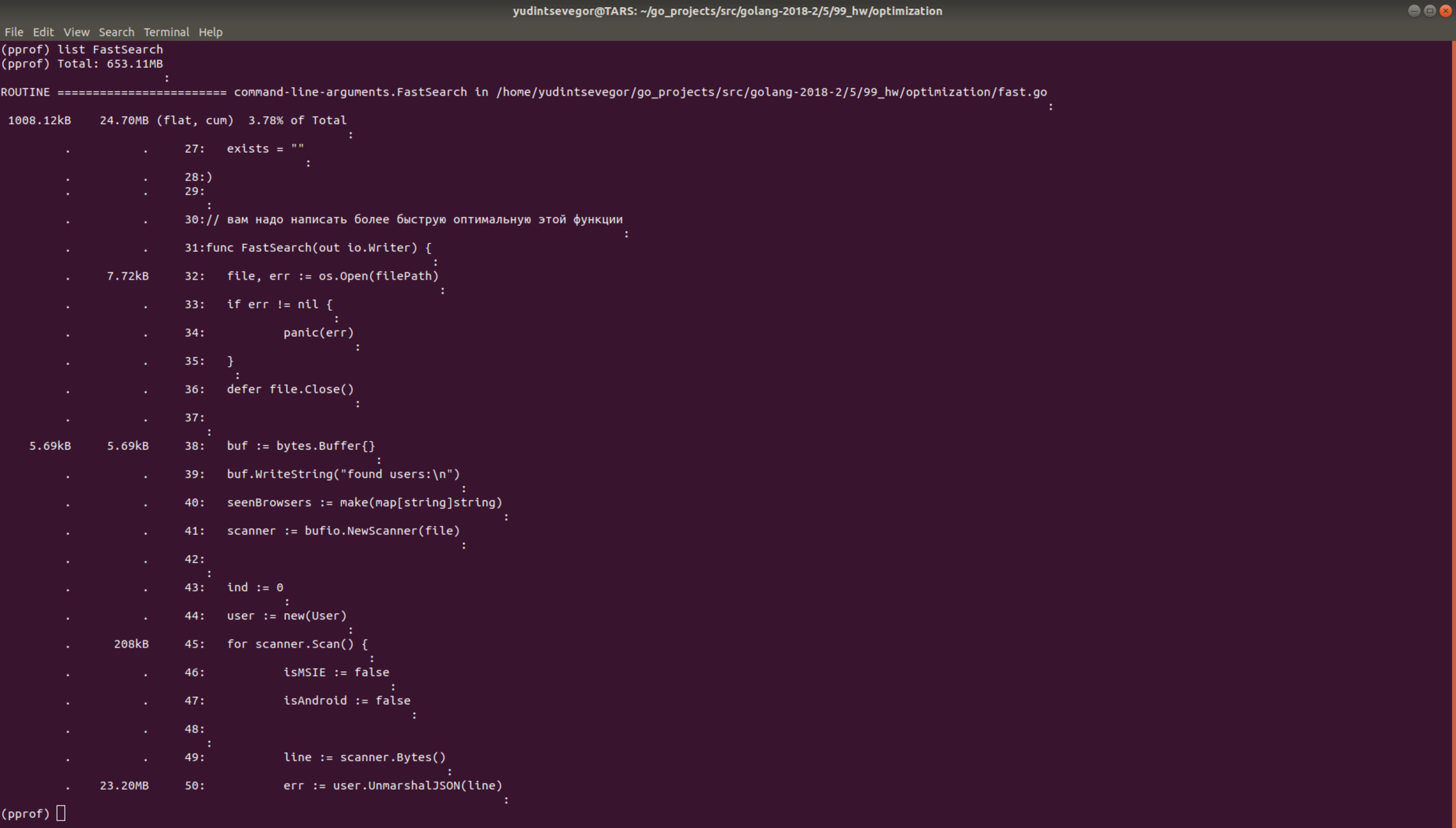
File Edit View Search Terminal Help

```
         .          .     61:                   }
                                                 :
         .          .     62:           }
                                         :
         .          .     63:
                             :
         .          .     64:           if !(isAndroid && isMSIE) {
                                                                   :
         .          .     65:                   ind++
                                                     :
         .          .     66:                   continue
                                                        :
         .          .     67:
                             :
         .          .     68:           }
                                         :
         .          .     69:
                             :
         .   289.25kB     70:           user.Email = strings.Replace(user.Email, "@", " [at] ", -1)
                                                                                                   :
         .          .     71:           buf.WriteByte('[')
                                                          :
         .          .     72:           buf.WriteString(strconv.Itoa(ind))
                                                                          :
         .          .     73:           buf.WriteByte(']')
                                                          :
         .          .     74:           buf.WriteByte(' ')
                                                          :
         .          .     75:           buf.WriteString(user.Name)
                                                                  :
         .          .     76:           buf.WriteByte(' ')
                                                          :
         .          .     77:           buf.WriteByte('<')
                                                          :
         .     8.94kB     78:           buf.WriteString(user.Email)
                                                                   :
         .          .     79:           buf.WriteByte('>')
                                                          :
         .          .     80:           buf.WriteString("\n")
                                                             :
         .    15.55kB     81:           buf.WriteTo(out)
                                                        :
         .          .     82:           buf.Reset()
                                                   :
         .          .     83:           ind++
                                             :
         .          .     84:   }
                                 :
         .          .     85:
                             :
         .          .     86:   buf.WriteString("\nTotal unique browsers ")
                                                                           :

(pprof)
(pprof)
```


yudintsevegor@TARS: ~/go_projects/src/golang-2018-2/5/99_hw/optimization
File Edit View Search Terminal Help

```
                                                                       :
         .          .     51:           if err != nil {
                                                       :
         .          .     52:                   panic(err)
                                                          :
         .          .     53:           }
                                         :
         .          .     54:           for _, browserRaw := range user.Browsers {
                                                                                  :
         .          .     55:                   if strings.Contains(browserRaw, "Android") {
                                                                                            :
         .          .     56:                           isAndroid = true
                                                                        :
  165.09kB   165.09kB     57:                           seenBrowsers[browserRaw] = exists
                                                                                         :
         .          .     58:                   } else if strings.Contains(browserRaw, "MSIE") {
                                                                                                :
         .          .     59:                           isMSIE = true
                                                                     :
  837.34kB   837.34kB     60:                           seenBrowsers[browserRaw] = exists
                                                                                         :
         .          .     61:                   }
                                                 :
         .          .     62:           }
                                         :
         .          .     63:
                             :
         .          .     64:           if !(isAndroid && isMSIE) {
                                                                   :
         .          .     65:                   ind++
                                                     :
         .          .     66:                   continue
                                                        :
         .          .     67:
                             :
         .          .     68:           }
                                         :
         .          .     69:
                             :
         .   289.25kB     70:           user.Email = strings.Replace(user.Email, "@", " [at] ", -1)
                                                                                                   :
         .          .     71:           buf.WriteByte('[')
                                                          :
         .          .     72:           buf.WriteString(strconv.Itoa(ind))
                                                                          :
         .          .     73:           buf.WriteByte(']')
                                                          :
         .          .     74:           buf.WriteByte(' ')
                                                          :
         .          .     75:           buf.WriteString(user.Name)
                                                                  :
         .          .     76:           buf.WriteByte(' ')
                                                          :
         .          .     77:           buf.WriteByte('<')
                                                          :
```


yudintsevegor@TARS: ~/go_projects/src/golang-2018-2/5/99_hw/optimization
File Edit View Search Terminal Help

```
(pprof) list FastSearch
(pprof) Total: 653.11MB
                       :
ROUTINE ======================== command-line-arguments.FastSearch in /home/yudintsevegor/go_projects/src/golang-2018-2/5/99_hw/optimization/fast.go
                                                                                                                                                    :
 1008.12kB    24.70MB (flat, cum)  3.78% of Total
                                                 :
         .          .     27:   exists = ""
                                           :
         .          .     28:)
         .          .     29:
                             :
         .          .     30:// вам надо написать более быструю оптимальную этой функции
                                                                                        :
         .          .     31:func FastSearch(out io.Writer) {
                                                             :
         .     7.72kB     32:   file, err := os.Open(filePath)
                                                              :
         .          .     33:   if err != nil {
                                               :
         .          .     34:           panic(err)
                                                  :
         .          .     35:   }
                                 :
         .          .     36:   defer file.Close()
                                                  :
         .          .     37:
                             :
    5.69kB     5.69kB     38:   buf := bytes.Buffer{}
                                                     :
         .          .     39:   buf.WriteString("found users:\n")
                                                                 :
         .          .     40:   seenBrowsers := make(map[string]string)
                                                                       :
         .          .     41:   scanner := bufio.NewScanner(file)
                                                                 :
         .          .     42:
                             :
         .          .     43:   ind := 0
                                        :
         .          .     44:   user := new(User)
                                                 :
         .      208kB     45:   for scanner.Scan() {
                                                    :
         .          .     46:           isMSIE := false
                                                       :
         .          .     47:           isAndroid := false
                                                          :
         .          .     48:
                             :
         .          .     49:           line := scanner.Bytes()
                                                               :
         .    23.20MB     50:           err := user.UnmarshalJSON(line)
                                                                       :
(pprof) 
```