```
-- lo.hs -- low-level CGI program
 1
 3
    import System.Environment (getEnvironment)
 4
 5
    main =
 6
        putStrLn "Content-type: text/plain\n"
 7
        >> getEnvironment
 8
        >>= mapM_ printPair
 9
10
    printPair (name, value) = putStrLn $ name ++ " = " ++ value
11
    {- In GHCI:
12
13
        Content-type: text/plain
14
15
16
        USER = oak
17
         LANGUAGE = ru:zh_CN:en
         SSH\_AGENT\_PID = \overline{1}402
18
         SHL\overline{V}L = 1
19
         HOME = /home/oak
20
         XDG SESSION COOKIE = e9bf5672c6670a3cf42c634500000008-1352353956.626045-854827338
21
22
         DESKTOP_SESSION = gnome-shell
23
         GTK_MODULES = canberra-gtk-module:canberra-gtk-module
         XDG_SEAT_PATH = /org/freedesktop/DisplayManager/Seat0
24
25
         LC CTYPE = ru RU.UTF-8
         DBUS_SESSION_BUS_ADDRESS = unix:abstract=/tmp/dbus-
26
    Ap03y91h9J,guid=75614cc12dcad96e69f4b37c00000012
27
         COLORTERM = gnome-terminal
         GNOME KEYRING CONTROL = /tmp/keyring-198Y10
28
        MANDATORY PATH = /usr/share/gconf/gnome-shell.mandatory.path
29
         LOGNAME = oak
30
31
        WINDOWID = 35651590
32
           = /usr/bin/ghci
         DEFAULTS PATH = /usr/share/gconf/gnome-shell.default.path
33
        TERM = xterm
34
         USERNAME = oak
35
         GNOME DESKTOP SESSION ID = this-is-deprecated
36
37
        LC_COLLATE = ru_RU.UTF-8
         SESSION_MANAGER = local/oak:@/tmp/.ICE-unix/1344,unix/oak:/tmp/.ICE-unix/1344
38
39
         PATH = /usr/lib/lightdm/lightdm:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/
    bin:/usr/games
        XDG_SESSION_PATH = /org/freedesktop/DisplayManager/Session0
40
41
         DISPLAY = :0.0
42
         LANG = ru_RU.UTF-8
43
        XDG_CURRENT_DESKTOP = GNOME
        XAUTHORITY = /home/oak/.Xauthority
44
45
         SSH_AUTH_SOCK = /tmp/keyring-198Y10/ssh
46
         LC_MESSAGES = ru_RU.UTF-8
         SHELL = /bin/bash
47
         GDMSESSION = gnome-shell
48
         GPG AGENT INFO = /tmp/keyring-198Y10/gpg:0:1
49
50
         PWD = /home/oak/Projects/BMSTU/FP course 2012/11 fp/2 cgi
         XDG_CONFIG_DIRS = /etc/xdg/xdg-gnome-shell:/etc/xdg
51
        XDG_DATA_DIRS = /usr/share/gnome-shell:/usr/share/gnome:/usr/local/share/:/usr/share/
52
53
        Via CGI (1):
54
55
        HTTP HOST = debug
56
57
        HTTP CONNECTION = keep-alive
        HTTP USER AGENT = Mozilla/5.0 (X11; Linux i686) AppleWebKit/537.11 (KHTML, like Gecko)
58
    Chrome/23.0.1271.64 Safari/537.11
         HTTP_ACCEPT = text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
59
         HTTP_ACCEPT_ENCODING = gzip,deflate,sdch
60
        HTTP_ACCEPT_LANGUAGE = ru-RU, ru; q=0.8, en-US; q=0.6, en; q=0.4
61
        HTTP_ACCEPT_CHARSET = windows-1251,utf-8;q=0.7,*;q=0.3
62
63
         PATH = /usr/local/bin:/usr/bin:/bin
64
         SERVER_SIGNATURE = <address>Apache/2.2.20 (Ubuntu) Server at debug Port 80</address>
65
66
         SERVER_SOFTWARE = Apache/2.2.20 (Ubuntu)
         SERVER_NAME = debug
67
         SERVER ADDR = 127.0.0.1
68
         SERVER_PORT = 80
69
70
         REMOTE ADDR = 127.0.0.1
         DOCUMENT_ROOT = /home/oak/Sites/debug/www
71
```

```
SERVER_ADMIN = <u>webmaster@localhost</u>
SCRIPT_FILENAME = /home/oak/Sites/debug/cgi-bin/lo
REMOTE_PORT = 54850
GATEWAY_INTERACE = CGI/1.1
 72
 73
 74
 75
           SERVER \overline{P}ROTOCOL = HTTP/1.1
 76
      11
           REQUEST METHOD = GET
 77
          QUERY_STRING =
 78
 79
           REQUEST_URI = /cgi-bin/lo
 80
           SCRIPT NAME = /cgi-bin/lo
 81
           Via CGI (2):
 82
 83
 84
           REQUEST METHOD = GET
           QUERY STRING = name1=value1&name2=value2
 85
           REQUEST_URI = /cgi-bin/lo?name1=value1&name2=value2
 86
 87
           SCRIPT_NAME = /cgi-bin/lo
 88
           From forms.html, GET method:
 89
 90
 91
           REQUEST METHOD = GET
 92
 93
           QUERY_STRING = t=the+text&r=on&b2=on&h=hidden+text&s=Option+2
 94
 95
           From forms.html, POST method:
 96
 97
           REQUEST\_METHOD = POST
 98
 99
           QUERY_STRING =
100
           CONTENT_LENGTH = 3691
101
102
      -}
```