```
cd ~/openocd-code
    sudo make uninstall
2.
    sudo rm -rf /usr/local/openocd-code
   git clone https://git.code.sf.net/p/openocd/code openocd-code
    ./bootstrap
    ./configure --prefix=/usr/local
    sudo make install
3.
   Task is completed
4.
    sudo apt update
5.
    sudo apt build-dep openocd
6.
    a.
        [+-]?[0-9]* \\ . \\ \{1\}[0-9]+([e]?[+-]?[0-9]+)?
   b.
        The minimum match would be any number that starts with
        one or more numbers, has a period (exactly one), then follows
        with 1 or more numbers with the possibility of an exponent using e
        followed by 1 or more numbers. I believe this would meet most cases of
        c floating point numbers since a floating point number in c is any
        number followed by a period and then having a railing decimal which could
        have an exponent.
7.
   Run OpenOCD and run GDB on rtossed.elf listening on port :3333 using:
    gdb ~/rtossed/build/rtossed.elf
   target extended-remote :3333
    Set breakpoint at sh() using:
   break main.c:121
   GDB OUTPUT: Breakpoint 1 at 0x800004e0: file Core/Src/main.c, line 122.
   Run the program from the beginning using:
   run
   GDB OUTPUT: Asked to start from the beginning (yes)
   GDB OUTPUT: Breakpoint 1, sh () at Core/Src/main.c:122
   Step over lines until sh_getline() using:
   next
   next
   GDB OUTPUT: 126 getline_sh(buf);
   Step into sh_getline() using:
    step
   GDB OUTPUT: getline_sh (buf=buf@entry=0x2001fde8 "echo the world") at Core/Src/main.c:7
   Print the address of buf using:
    info address buf
   GDB OUTPUT: Range 0x8000470-0x80004e0: a variable in $r7
    I believe the previous step did not print an address becuase it's calling a function
   and not utilizing the variable buf.
    Set a breakpoint at _read_r() using:
   break syscalls.c:18
   GDB OUTPUT: Breakpoint 2 at 0x8000448: file Core/Src/syscalls.c, line 19
```

Run until the _read_r() breakpoint using:
 continue
 GDB OUTPUT: Breakpoint 2, _read_r (ptr=0x20000128 <_impure_data>, fd=0, buf=0x200020e8,
 cnt=1024) at Core/Src/syscalls.c:19

 Give all function names in order:
 info functions
 This ouput all functions but not all between main and read_r

8.

enscript -b '\$n %E %C | \$% | Isaac Violette' -T 4 -p HW3.ps HW3