```
main ( )  {  ←  option 1
                  coordinator
          ←    { report  d_report ;
tool  adtool ;    cmd_types  type ;
commandline cmdline
configuration config ;      →  open ('/proc/diskstats')
adtool . init ( ) ;       →  open ( adt.conf )
                                                get_command  →  cmd_line
cmdline . get_command ( ) ;  // get_command  or  adt_tool
                  ↰  // user interface
while (( type=cmdline . get_type ( ))! = EXIT ) {
          switch ( c . type ) {
          ┌─────────────────────────────┐
          │ case . HELP :               │
          │  adtool. help ( ) ; break ; │
          └─────────────────────────────┘
          case  RUN :
          adtool. run (config, d_report);

Why ?        case  SET :
                 config. set ( cmdline ) ; break ;

             case  PRINT :
                 flag = cmdline.get_flag ( ) ;
                 if ( flag == CONF )
                     config. print_conf ( ) ;
                 else if ( flag == REPORT )
                     dreport. print_report ( ) ;
     cmdline .get_command() ; else ( error )
                         break ;
             case  SAVE :
                 config. save_conf ( ) ; break ;
             case  HELP :
             default      adtool. help ( ) ;
```

option 2

```
main ( ) {          coordinator
    local variables {  report    d-report;
                       commandline  cmdline;
                       configuration  config;
                       tool  adtool;
    adtool.init();
    cmdline.get_command();
    while ((type = cmdline.get-type()) != EXIT) {
        adtool.respond_cmd(cmdline, config, d_report);
        cmdline.get_command();
    }

    adtool.exit();
}

tool::respond_cmd(commandline cmd, configuration & conf,
                                              report &rpt) {
    cmd-types   type;
    type = cmd.get_type();
    switch (type) {
        case  RUN:
              run(conf, rpt); break;         similar to
        case  SET:
              conf.set(cmd); break;  option 1
        case  PRINT:
              :
        case  SAVE:
              :

    }
}
```

option 3 for class diagram
Version 1

```
main() {
    report          d_report
    command line    cmdline      ──────>  moved to tool.
    configuration   config

    tool        adtool;
    cmd-types   type;
    adtool.init();

    adtool.get_command();

    while ((type = adtool.get_type()) != EXIT) {
            adtool.respond_cmd();
            adtool.get_command();
    }

    adtool.exit();

}
```