```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/types.h>
#include <sys/time.h>
#include <sys/ioctl.h>
int main()
   char buffer[128];
   int result, nread;
   fd set inputs, inputfds; // 2 sets of file descriptors bit-arrays
   struct timeval timeout;
   // Wait for input on stdin for a maximum of 2.5 seconds.
   for (;;)
       inputfds = inputs;
       // 2.5 seconds.
       timeout.tv sec = 2;
       timeout.tv usec = 500000;
       // Get select() results. FD SETSIZE = 1024 bits/FDs
       result = select(FD SETSIZE, &inputfds,
                       (fd set *) 0, (fd set *) 0, &timeout);
       // Check the results.
       // No input: the program loops again.
           Got input: print what was typed, then terminate.
           Error: terminate.
       switch(result) {
           case 0: {
                                    // timeout w/o input
               printf("@");
               fflush(stdout);
              break;
           }
                                    // error
           case -1: {
               perror("select");
               exit(1);
           }
           // If, during the wait, we have some action on the file descriptor,
           // we read the input on stdin and echo it whenever an
           // <end of line> character is received, until that input is Ctrl-D.
           default: {
                                     // Got input
               if (FD ISSET(0, &inputfds)) {
```