

```
1  #include <stdio.h>                                /* for strlen() */
2  #include <string.h>
3  #include <stdlib.h>
4  #include <unistd.h>                                /* for fork() */
5  #include <sys/wait.h>                              /* for waitpid() */
6  #include <signal.h>
7
8  #define MAXLINE 4096
9
10 void sig_int(int signo)
11 {
12     printf("Why Ctrl-c?\n-> ");
13 }
14
15 int main(void)
16 {
17     char buf[MAXLINE];
18     pid_t pid;
19     int status;
20
21     if (signal(SIGINT, sig_int) == SIG_ERR)
22         perror("signal");
23
24     printf("-> ");
25     while (fgets(buf, MAXLINE, stdin) != NULL) {
26         buf[strlen(buf) - 1] = '\0'; /* null */
27
28         if ( (pid = fork()) == 0 ) { /* child */
29             execlp(buf, buf, (char *)0);
30             perror("execlp");
31             exit(127);
32         }
33
34         if ((pid = waitpid(pid, &status, 0)) < 0)
35             perror("waitpid");
36         printf("-> ");
37     }
38     exit(0);
39 }
```