"/bin/ls | /bin/sort | /bin/uniq"

For the above command my code will first split at the pipe symbol and treat the obtained strings as individual commands. For each command redirection will be handled if any. Also my code maintains a count of the pipe symbol;

```
void call_pipe(char **in, int *pcount, int i){
  if(i == *pcount - 1){
       //if it is the final process
       char cpy[MAXCOMMANDS];
       strcpy(cpy, in[i]); //copy of the cmd
       char *args[MAXCOMMANDS];
             Here we will tokenize the str by splitting at whitespaces;
       int x;
       if((x = redirectionCheck(in[i])) < 0){//check for redirections}
                     execute(args);//If no simply execute
       }
       else{
              redirection(in[i], x);//else redirect
              return 1;
       }
  if(i < *pcount){// not final process</pre>
       int fd[2];//pipe array
       pid_t pid;
       char cpy[MAXCOMMANDS];//cpy for manipulation
       char *args[MAXCOMMANDS];
       if(pipe(fd) < 0){
              printf("pipe failed");
              exit(1);
       pid = fork()
       if(pid < 0)
              printf("fork failed");
              exit(1);
```

```
}
       if(pid != 0){
              dup2(fd[1], 1);
               close(fd[0]);
               in[i+1] = NULL;
               strcpy(cpy,in[i]);
              //tokenization
               int x;
               if((x = redirectionCheck(in[i])) < 0){
                      execute(args);
               }
               else{
                      redirection(in[i], x);}
               wait(NULL);//wait for child process
       }
       else{
               if(i != *pcount-1){
                      dup2(fd[0], 0);
               }
               close(fd[1]);
               call_pipe(in, pcount, i);
       }
  }
}
```