

Answer the following questions.

3. In what order do the steps above occur during normal process termination?
4. What happens if they occur in the reverse of normal order?
5. What happens if (b) occurs, but (a) *never* occurs?

44. Consider the following series of command lines and outputs (executed in this order):

```
1 export PAGER=less
2 EXINIT="showmode showmatch ruler"
3 ksh
4 echo $PAGER
5
6 echo $EXINIT
7
8 export A=10
9 exit
10 echo $A
11
```

0.

1. What is printed on line 5?
2. What is printed on line 7?
3. What is printed on line 11?

45. Write a *complete* C program which implements `ls -l > ls.out` as *efficient* as possible.

Do not re-implement `ls`. Rather re-use the system's `ls` command. Do not use the system call `system` in your program.

46. What would you do to setup your environment such that files are created readable by only you, your group, and others, but writable by only you and your group, without giving any extraneous permissions, in such a way that this change would be in effect each time you logged in?