Homework

7.4

7.15

• Deadline: 5.11 (Monday)

Chapter 7 Runtime Environments

• 7.4 Draw the stack of activation records for the following Pascal program, showing the control and access links, after the second call to procedure **c**. Describe how the variable **x** is accessed from within **c**.

```
procedure a:
var x: integer;
  procedure b;
     procedure c;
     begin
       begin
          x := 2;
       end:
  begin (* b *)
  end;
begin (* a *)
  b;
end:
begin (* main *)
  a;
end;
```

7.15 Give the output of the following program (written in C syntax) using the four parameter passing methods discussed in Section 7.5:

```
#include <stdio.h>
 int i=0;
 void p(int x, int y)
   i += 1;
  y += 1;
main()
{ int a[2]={1,1};
 p(a[i],a[i]);
 printf("%d %d\n",a[0],a[1]);
 return 0;
```