

7.16

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

```
#include <stdio.h>
int i=0;

void swap(int x, int y)
{ x = x + y;
  y = x - y;
  x = x - y;
}

main()
{ int a[3] = {1,2,0};
  swap(i,a[i]);
  printf("%d %d %d %d\n",i,a[0],a[1],a[2]);
  return 0;
}
```

by value	by reference
0 1 2 0	1 0 2 0
by value-result	by name
1 0 2 0	2 1 -1 0
1 1 0 0	