

CSC 112 MIDTERM EXAM KEY
FALL 2002

1. a. A number is printed each time through the loop. Output:

4
-2
-2
-2
-2
-2
-8

b. Inside myfun, **b** refers to the same location as **y** in main, and ***c** refers to the same location as **x**. The return value is stored in **z**. Output:

2
3
2
2
3
7

2. Most people didn't allocate space for **ptr**.

```
ptr = new int;
arr2d = new (int*)[6];
for (i = 0; i < 6; i++) {
    arr2d[i] = new int[4];
}

delete ptr;
for (i = 0; i < 6; i++) {
    delete[] arr2d[i];
}
delete[] arr2d;
```

3. Order is c,b,e,a,d.

4.

5.

6. Correct answer is 1, 2, 3, 5, 6, 4, 7, 8, 9.

7. Errors in bold: