

In-Section Exercises - Week 4

CS50 — Fall 2012

Prepared by: Doug Lloyd '09

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1. What are the values of `m` and `n` after the following lines of code have been executed?

```
int m, n;
int *ap, *bp;
ap = &m;
bp = ap;
n = 10;
*bp = n++;
```

2. What is the output of the following program?

```
void f1(int a);
void f2(int *a);

int main() {
    int a = 4;
    f1(a);
    printf("%d\n", a);
    f2(&a);
    printf("%d\n", a);
    return 0;
}

void f1(int a) {
    a--;
    return;
}

void f2(int *a) {
    (*a)--;
    return;
}
```

3. Write a call to `malloc()` requesting space for an array consisting of 7 `doubles`. How do you access the third element of the array, using both “array syntax” and “pointer syntax”?