

## C201 Review Questions #7

Feel free to talk to other people around you.

Assume that A, B, C and Ptr are variables declared as follows:

```
int A = -1;
int B = 1;
int C[2] = {3,4};
int *Ptr;
```

Assume also that integers occupy 2 bytes of storage and that

```
&A = 1000
&B = 1002
&C = 1004
```

Fill in part of the table below, writing in a value only if it is changed by the statement to the left.

### Values of Variables

| statement   | A  | B | C[0] | C[1] | Ptr | *Ptr |
|-------------|----|---|------|------|-----|------|
| (initially) | -1 | 1 | 3    | 4    | ?   | ?    |
| Ptr = &A    |    |   |      |      |     |      |
| A = 0       |    |   |      |      |     |      |
| *Ptr = 8    |    |   |      |      |     |      |
| Ptr = C     |    |   |      |      |     |      |
| ++Ptr       |    |   |      |      |     |      |
| Ptr = &C[0] |    |   |      |      |     |      |
| *Ptr = 5    |    |   |      |      |     |      |
| Ptr -= 1    |    |   |      |      |     |      |