This is a pen and paper exercise, write all answers on a piece of paper (yellow pad or bond paper), then submit a photo or scanned image of your answers.

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I. (0.5 pts each) Given the variable declarations below, write V in the blank provided if the statement in each item is (semantically and syntactically) valid. Write I, otherwise.

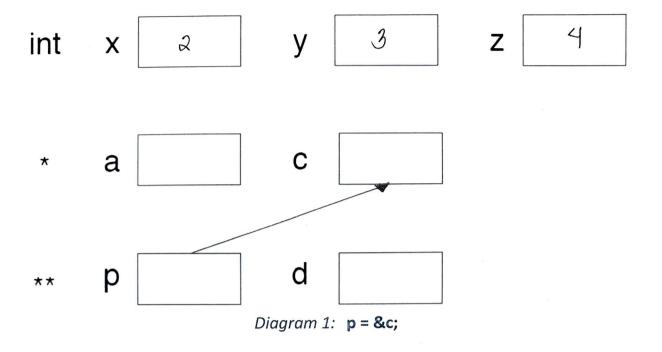
II. (0.5 pts each) Executing all valid statements in Test I, write in the blank the **output** of the following statements or the **value** of the variables.

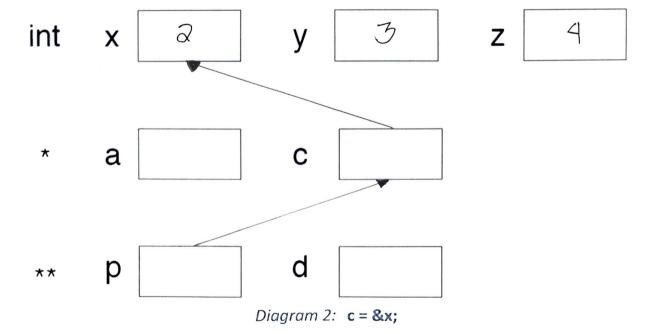
III. (5 pts) Draw on the right column the resulting box-and-arrow diagram of the code snippet from the left. Assume that everything is in the main() function. Draw a diagram for each assignment statement to show how the pointers and values change for each assignment statement.

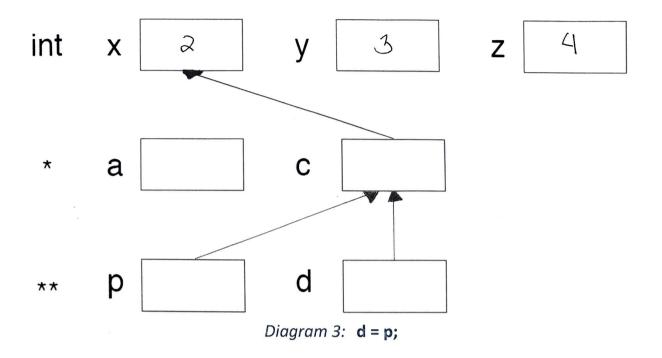
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int x=2, y=3, z=4, *a;
int **p, *c, **d;

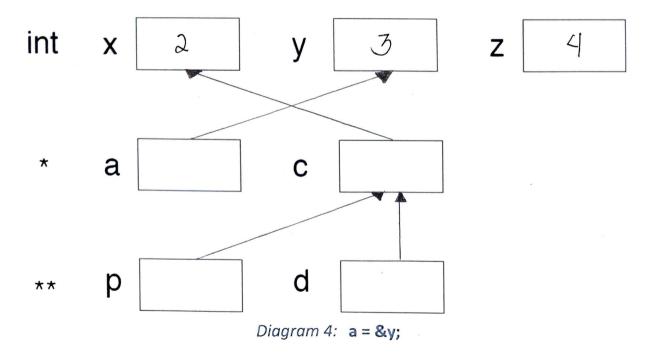
p = &c;
c = &x;
d = p;
a = &y;
**p = 7;
**p = a;
**d = *c + **p;
**d = &z;
**a = x;
```

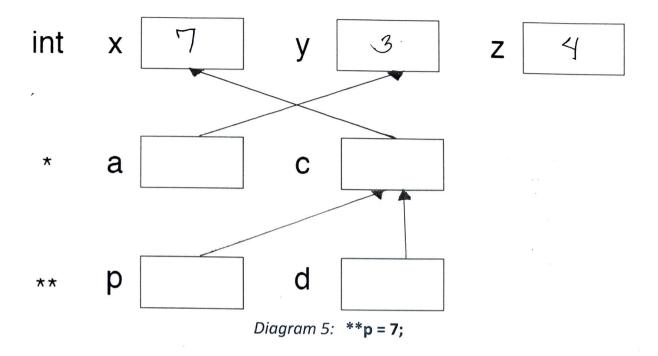
Diagrams are drawn in the next few pages.

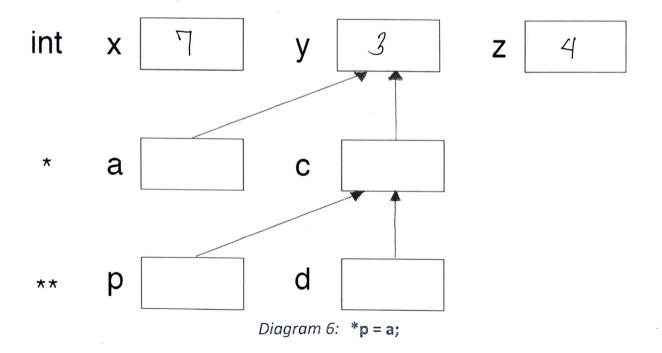


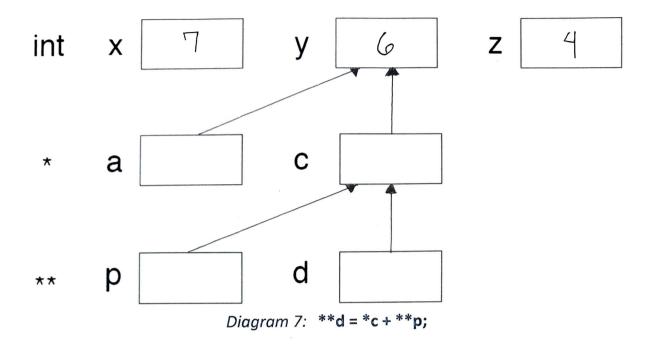


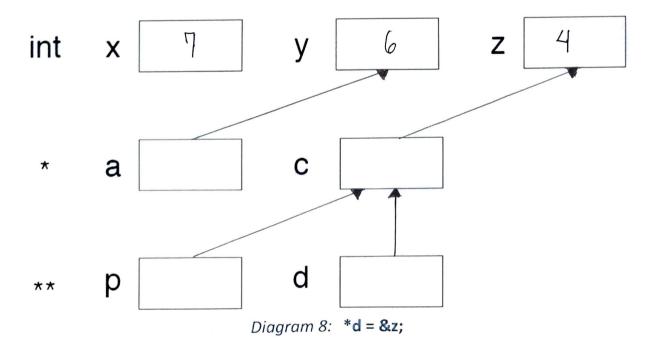


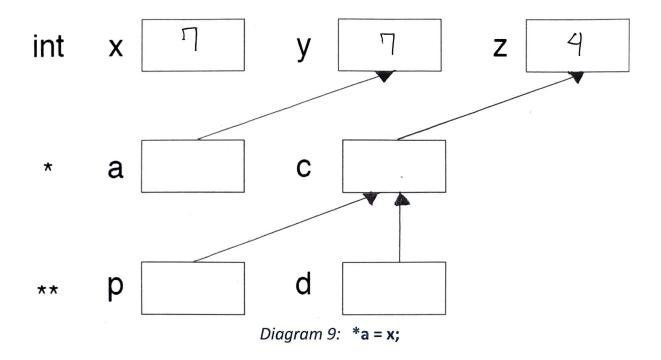












Memory Slots		1	2	3	4	5	6	7	8	9	Final
001 x	2					7					7
002 У	3							6		7	7
003 z	4		2 B								4
004 a					002						002
005 C			001				002		003		003
006 d				005							005
007 p		005									005

Table 1: Final Data Values