

Week 5 hand-in

Github link for code exercises:

<https://github.com/Aarhus-University-ECE/assignment-5-amandoe>

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Exercise (1):

- (1) (Text answer) (Old exam question) A function `area` calculates and returns the area of a rectangle as an integer. The input rectangle is given as four integer coordinates: `x1`, `x2`, `y1`, `y2`. Complete the function signature below.

```
1
2 Int   area   ( int x1, int x2, int y1, int y2 ) {
3
4
5   return (x2 - x1) * (y2 - y1);
6 }
```

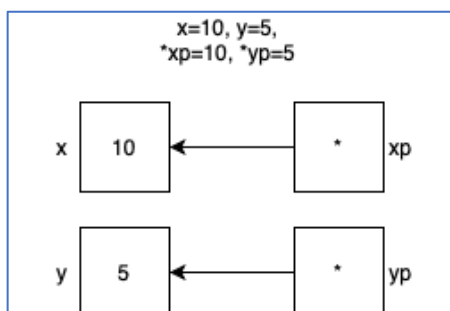
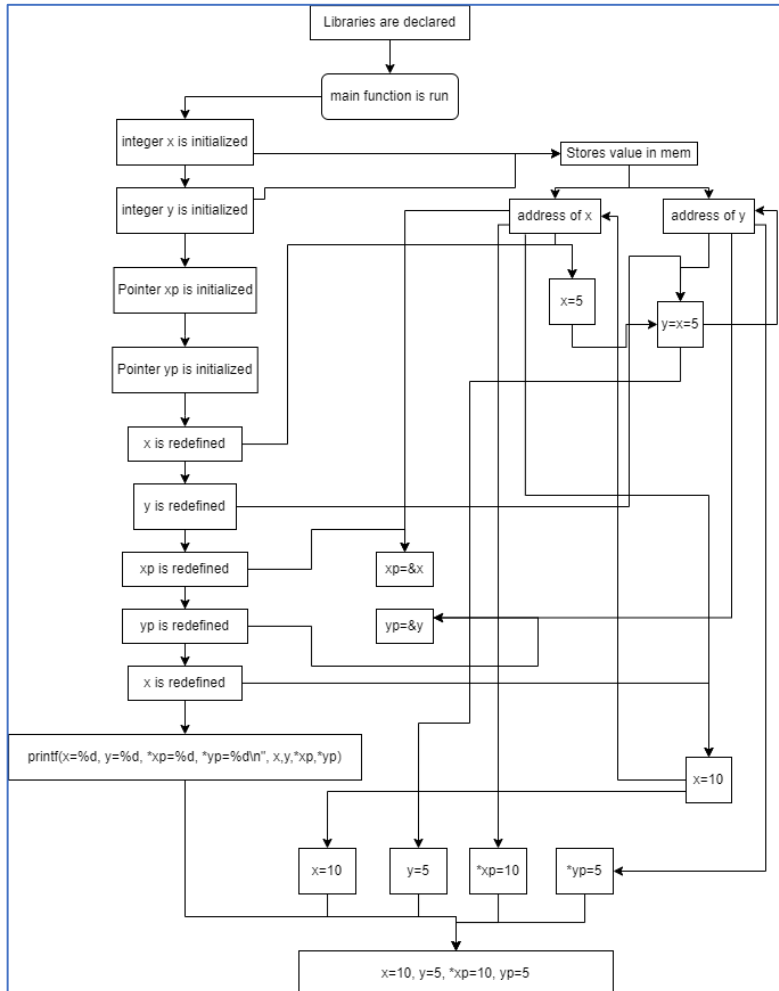
Exercise (2):

- (2) (Text answer) (Old exam question) The function `increment` takes a pointer to an integer and adds 1 to the integer value to which it points. The function does not return any value. Complete the function signature and function body below, so that the main function prints 6 when executed.

```
1
2 void   increment   ( int *v ) {
3
4
5   *v = *v+1;
6
7 }
```

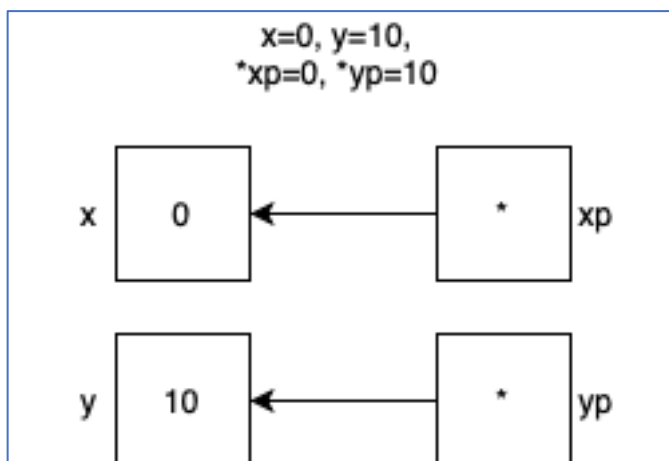
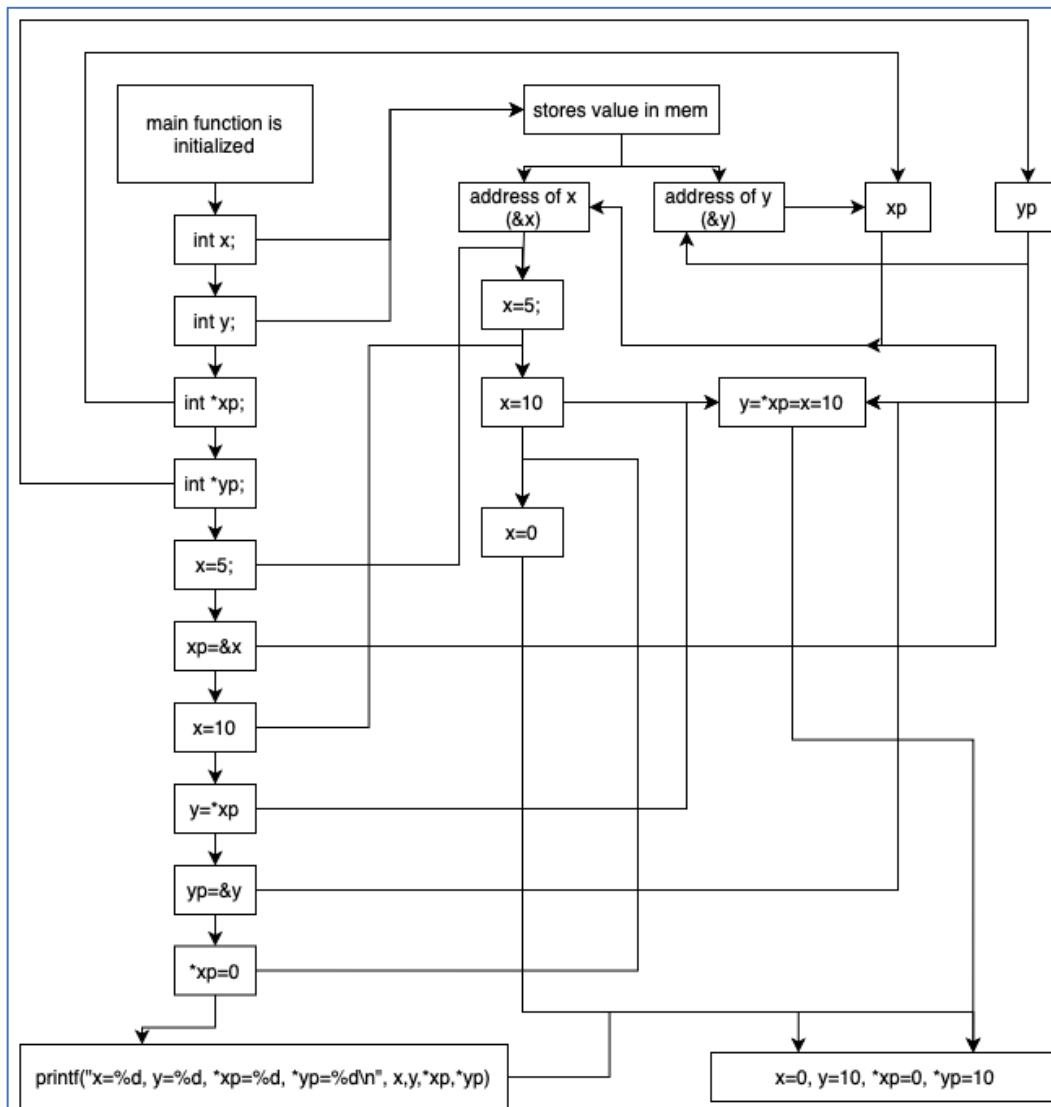
Exercise (3):

Both flowchart and diagram:



Exercise (4):

Both flowchart and diagram:



Exercise (5):

Both flowchart and diagram.

