

## CMPT 125 Quiz - September 11, 2018

Name: \_\_\_\_\_

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Q1 . What will be the output of the following program? Add a short explanation/drawing.

```
#include <stdio.h>

int main() {
    int x = 1;
    int* ptr1 = &x;

    int y = 2;
    int* ptr2 = &y;

    *ptr1 = 2;
    ptr2 = ptr1;
    ptr1 = &y;
    *ptr1 = 3;

    printf("x = %d\n", x);
    printf("y = %d\n", y);
    printf("*ptr1 = %d\n", *ptr1);
    printf("*ptr2 = %d\n", *ptr2);
}
```

Q2 . What will be the output of the following program? Add a short explanation/drawing.

```
#include <stdio.h>

int main() {
    int ar[4] = {1,2,3,4};
    int* ptr1 = ar+1;
    *(ptr1+2) = 5;

    printf("*ptr1 = %d\n", *ptr1);
    printf("ar[2] = %d\n", ar[2]);
    printf("ar[3] = %d\n", ar[3]);
}
```