## **CS 211**

## Lab02 - Warm-Up Table

Consider the following declarations:

```
int x = 5;
int y = 7;
int z = 3;
int* p = &x;
int* q = &y;
int* r = p;
```

After these declarations, suppose the variables have the following memory address locations:

- x is stored at 0xb434
- y is stored at 0xb438
- z is stored at 0xb43c
- p is stored at 0xb440
- q is stored at 0xb448
- r is stored at 0xb450

Then, the following commands are run sequentially (i.e. one after the other). Complete the table below by filling in the values stored for all 6 variables (x, y, z, p, q, r) after the declarations and after each command.

command(s)	Х	у	Z	р	q	r
after declarations	5	7	3	0xb434	0xb438	0xb434
x = *q - *p;	2	7	3	0xb434	0xb438	0xb434
p++;	2	7	3	0xb438	0xb438	0xb434
q;	2	7	3	0xb438	0xb434	0xb434
*p = *q + z + 1;	11	7	3	0xb438	0xb434	0xb434
p = &z	11	7	3	0xb43c	0xb434	0xb434
*p = *r + *q;	11	7	14	0xb43c	0xb434	0xb434