

CS 2401 Spring 2022

## Lab 3: Dynamic Memory Answer Sheet

Due: Friday 2/4 at 11:59 PM

Type your answers on this sheet making sure to list the question numbers.

7. Output:

\*  
  
\*  
  
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\*

10. Output:

\*  
  
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11. X was updated every time the function was ran.

12. X is reset at 0 every time the function is called.

16. 0x61feb0

17. 0x61feb4

Code for 16 & 17:

```
int *ptr;  
int placeholder;  
ptr = &placeholder;  
  
cout << "New Integer:" << ptr << endl;  
cout << "Pointer:" << &ptr << endl;
```

20. First: 2402 is stored at 0x61feb0

Last: 2411 is stored at 0x61feb0

22. Second to last: 15756988 is stored at 0x61fed4

Last: 15734180 is stored at 0x61fed8.

28. Runs 5 numbers then outputs "Sorry no room left".

30. After the changes it runs 25 numbers, with a resize message after every 5 numbers.

32. It keeps bumping the array up by 5 & replacing the 3<sup>rd</sup> number in the array with 0 every time there is a resize.

33. Part 1 = lab3.cc, Part 2 = lab3(2).cc, Part 3 = lab3(3).cc