CS 2401 Spring 2023

**Lab 3: Dynamic Memory Answer Sheet**

**Due: Friday 2/10 at 11:59 PM**

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

Olivia Radecki

part 1.7:

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part 1.10:

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part 1.11

Static will make static memory which is created at the start of the program and last until the end, because of this, the value for x that increased each loop remained.

part 1.12

Not declaring a memory type will create automatic memory, this memory is made automatically when needed and lasts until out of scope which means a new memory location for x was made for every loop.

part 2.4

cout << p << endl; // This is outputing the address stored in the pointer p

The adress that appeared is 0x556de7dc1eb0

part 2.5

cout << &p << endl; // Adress of the pointer (not the adress stored in it)

The adress that appeared is 0x7fff65efaf30

part 2.8

25.01 is stored at 0x556de7dc1eb0

34.01 is stored at 0x556de7dc1eb0

Part 2.10

munmap\_chunk(): invalid pointer

Aborted

part 3.8

1804289383 846930886 1681692777 1714636915 1957747793 Resized

424238335 719885386 1649760492 596516649 1189641421 Resized

1025202362 1350490027 783368690 1102520059 2044897763 Resized

1967513926 1365180540 1540383426 304089172 1303455736 Resized

35005211 521595368 294702567 1726956429 336465782 Resized

part 3.11

Resized

Resized

Resized

Resized

Resized

1804289383

846930886

0

1714636915

1957747793

424238335

719885386

1649760492

596516649

1189641421

1025202362

1350490027

783368690

1102520059

2044897763

1967513926

1365180540

1540383426

304089172

1303455736

35005211

521595368

294702567

1726956429

336465782

free(): double free detected in tcache 2

Aborted