**Lyndon Kondratczyk**

**CECS 424, Fall 2015**

**Lab 1 (Heap Management)**

**9/14/15**

lkondratczyk@Lyndon /cygdrive/c/users/lkondratczyk/documents/current school files/cecs 424/labs

$ ./a.exe

Test 1:

Allocated address 1: 25769870368

Allocation 1 freed:

Allocated address 2: 25769870368

Test 2:

Allocated address 1: 25769870392

Allocated address 2: 25769870416

Address 2 - 1 = 25769870416 - 25769870392 = 24

Size of int = 8, Size of overhead = 16, sum = 24

Test 3:

!!!Note, void\* size is 8, so double \* 2 used:

Allocated address 1: 25769870440

Allocated address 2: 25769870464

Allocated address 3: 25769870488

Allocation 2 freed:

Allocated address 4 (double double): 25769870512

Allocated address 5 (int): 25769870464

Test 4:

Allocated address 1: 25769870544

Allocated address 2: 25769870568

Address 2 - 1 = 25769870568 - 25769870544 = 24

Size of int = 8, Size of overhead = 16, sum = 24

Test 4:

Allocated address 1: 25769870592

Allocated address 2: 25769871008

Address 2 - 1 = 25769871008 - 25769870592 = 416

Size of array = 400, Size of overhead = 16, sum = 416

Allocation 1 freed:

Allocated address 2: 25769871008

Please input the value of n (integer)

10

10 entered

Please input integer number 0:

1

Please input integer number 1:

2

Please input integer number 2:

3

Please input integer number 3:

4

Please input integer number 4:

5

Please input integer number 5:

6

Please input integer number 6:

7

Please input integer number 7:

8

Please input integer number 8:

9

Please input integer number 9:

10

mean = 5.500000

deviation = 2.872281

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