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Data Structures

Home Work 2: Written

1).

a) $O(\log n)$
b) $O(n \log n)$

c) $O(n)$
d) $O(n^2)$

e) $O(n^2)$

2) $n^3, n^2, n^{1.5}, n \log^2(n), n \log(n), \left[n, \frac{n}{2}\right], \sqrt{n}$

↑ Both grow @ same rate

3). delete []

• Remove all items in an array

delete - removes a single pointer

4). a). $O(n)$ b). $O(1)$

5) a) $O(n)$ b) $O(1)$

6) a) $F(x)3$
b) $F(x)2$

c) $F(x)3$
d) $F(x)1$

$F(x)$ stands for Function

7). lvalue
lvalue
rvalue
rvalue

8). Yes there's a problem

Problem:
getName returns a local
variable.