Assignment 1 David Browning

Wednesday, January 20, 2016 2:58 PM

1 a
$$f(n) = 0 g(n)$$

b $f(n) = 0 g(n)$
c $f(n) = 0 g(n)$
d $f(n) = 0 g(n)$
e $f(n) = 0 g(n)$

a O(n) b 0(13) (O(n2) $d O(n^3)$ $e O(n^2)$

 $O(v_1)$

SelectionSort(list[]) Int smallest = list[0] α vector<int> newList; For(int i = 0;i<list.size();i++) For(remaining elements){ If (smallest < e) smallest = e Swap first and smallest

b 0(r) ()(h2)

- 5. See Code 6. See Code
- 7. Approximately 11,822.6 Centuries.
- 8. Approximately 9.993x10^274 (ouch)

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