CSE015-HW04

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October 15, 2017

1 Question 1

Number of five are: 1, 2, 3, 4, 5

For element:

Best case: 1 Worst case: 6

2 Question 2

 $O(n)=n^2$ because each list sorts n times and each sort calls insert function. Then, insert goes to insert n-1 times. So $n*(n-1)=n^2-n$, then sort is done and the program inserts new element, which will happen n times. So n^2-n+n . Therefore, $n^2-n+n=n^2$

3 Question 3

Second Order.