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CS350

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Title: week 4

1. C: 2^4
D: square root of n
B: $n+n+n^2$
A: $n \log(n)$
2. A: $O(N^{5/2})$
B: $o(n)$
C: $O(9n^4)$
D: $O(n^2)$
3. for the first for loop it will be $O(n)$
for the two loops together it will be $O(n^2)$

now since for do-while it is $O(n^2)$
the final value will be $O(n^2 + n^2) = O(n^2)$
4. 1000
5. $O(n^4)$
6. $O(N^2)$
7. $O(N^2)$

8. $O(N)$