Assignment

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1. n O(n)
2. n/2\*log(n) O(n.log(n))
3. n/2\*log^2(n) O(n.log^2(n))
4. n/3\*n/4 O(n^2)
5. n\*n/2 O(n^2)
6. O(n^4)
7. 3\*n/2\*log3(n) O(n.log3(n))
8. (n-2)\*(n-8) O(n^2)
9. 2\*n/2 O(n)
10. n/2\*log^2(n) O(n.log^2(n))
11. n\*n\*n O(n^3)
12. log(n) O(log(n))
13. n/2\*n/2\*log(n) O(n^2.log(n))
14. n+m O(n)
15. (n/2)\*2n O(n^2)
16. n-2 O(n)
17. 2 O(1)
18. (n-2)\*(n-2)\*n O(n^3)
19. n\*n O(n^2)
21. Best: O(n)

Worst : O(n^2)

1. F(x)=10x^2+20x+5

C=99 N0=1

1. Independent of input
2. O(2^n)