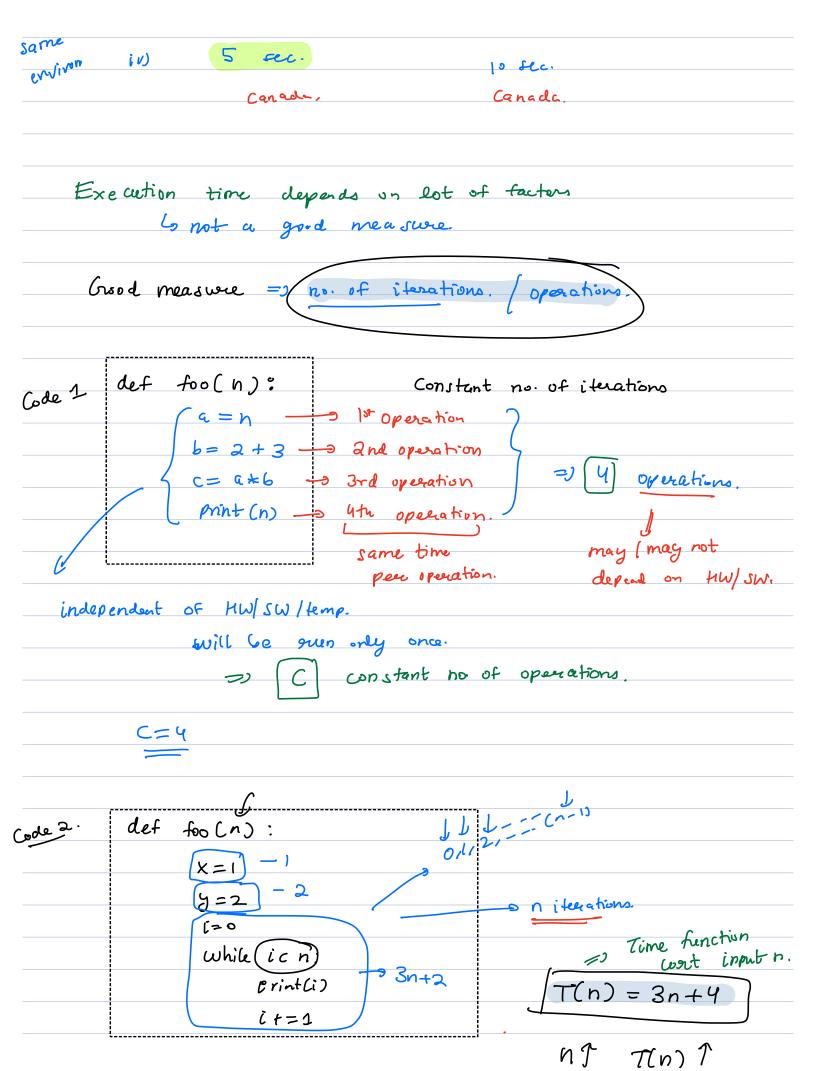
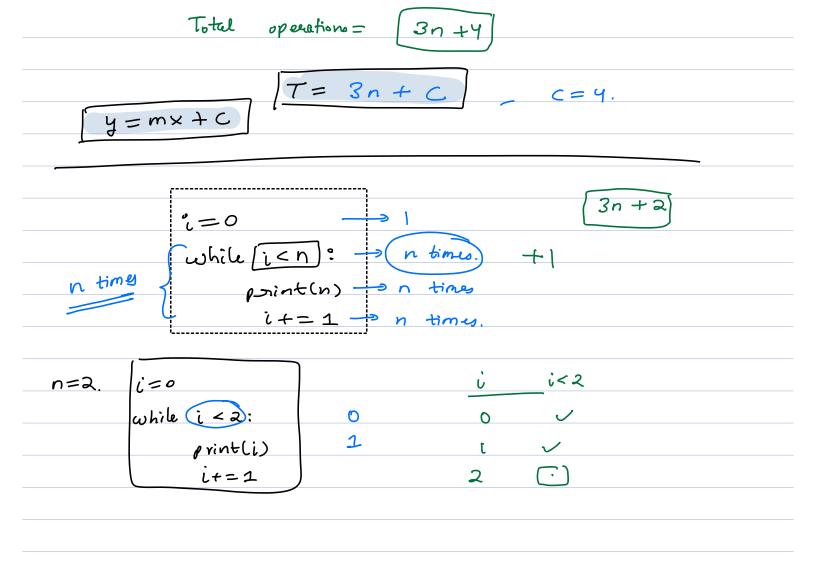
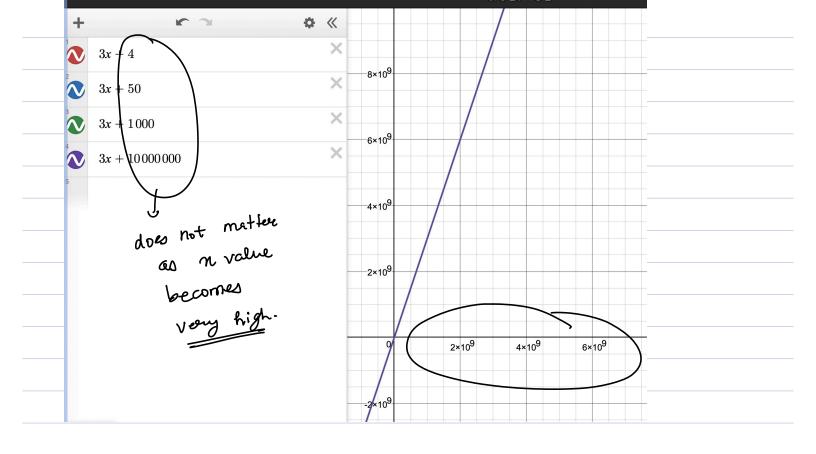
Sorting and Time Complexity-2	
Starting in 2 mins 9.0	2 pm
Problem Solving - 1 on sat	10th 7 ortional but recorded
Problem Solving - 2 on sat,)	
Ayush	Manju
=> Flon Algo. (A)	=) Perfect Algo (B)
	N integers, sort the list in ascending
order.	
Inp: [1,7,-1,2,4,6]	/0-
output; [-1, 1,2,4,6,7]	(N= 102)
TIP => [ 5,1,3,3,7,9	
han	
Execution (i) 15 sec.	lo sec Cerendina
windows 95	Machook Pro. device used,
	- 05
-> Computer can roughly perform 10	operations in 1 sec.
2 GH2	
2.56 H2	
2.901h2	
Sqme  Macbook (i) 7 fee	10 sec. Edependency
pars 7 sec	on
C++ faster	Python. stower I
700 702	Leng. Wed,
same	Cooler
language iii) 12 sec	10 sec. the dep"
and Tour for column	Canada Envisione
macbook pour	<del>_</del>

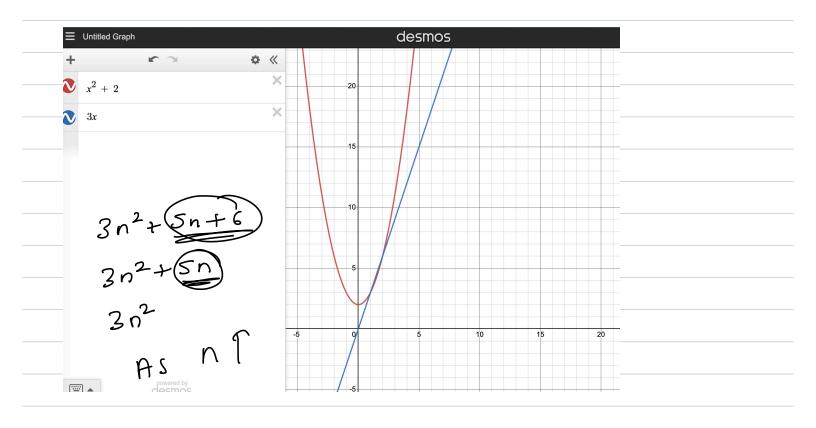


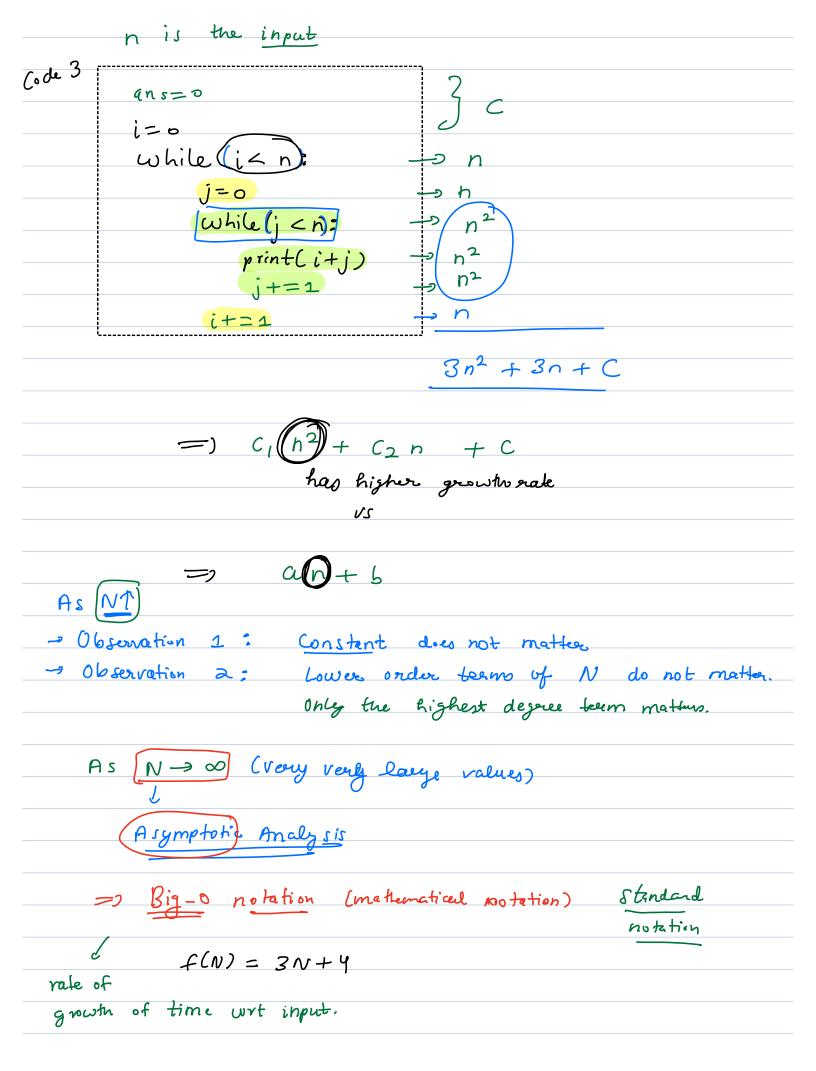


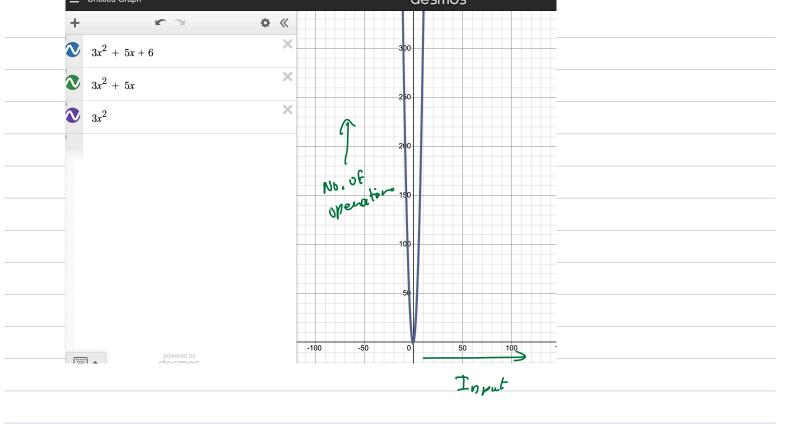
$$\begin{array}{c}
\overline{l} = 0 \\
\text{Sum} = 0 \\
\text{while } (i < N) \\
\text{Sum} = \text{sum} + \text{number} \quad [i] \rightarrow N \\
\text{$i$} + = 1 \\
\text{$3$} \\
\text{$N+3$}
\end{array}$$

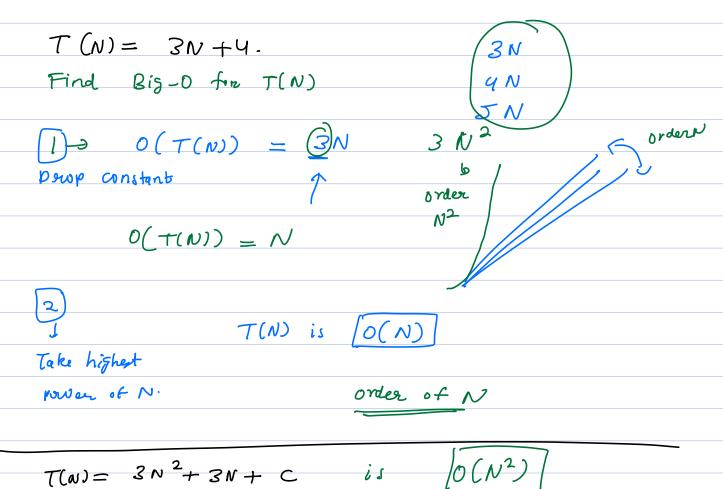


## Big-0 Notation





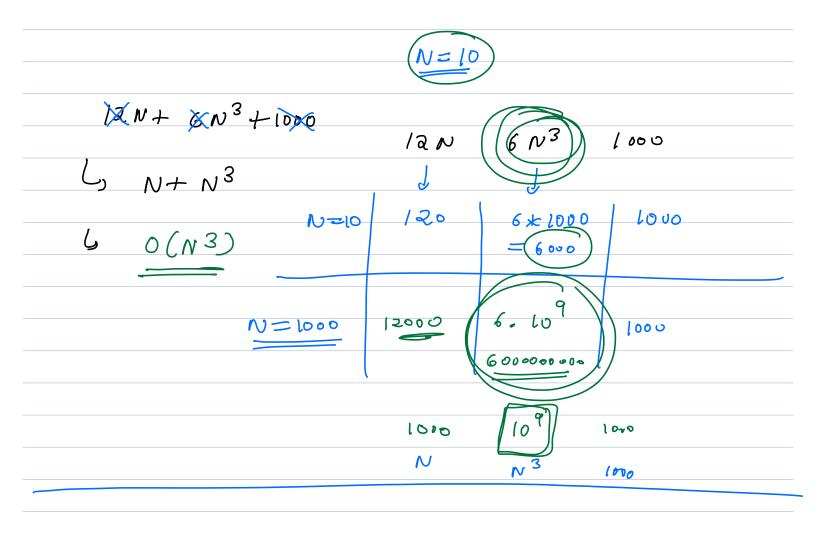


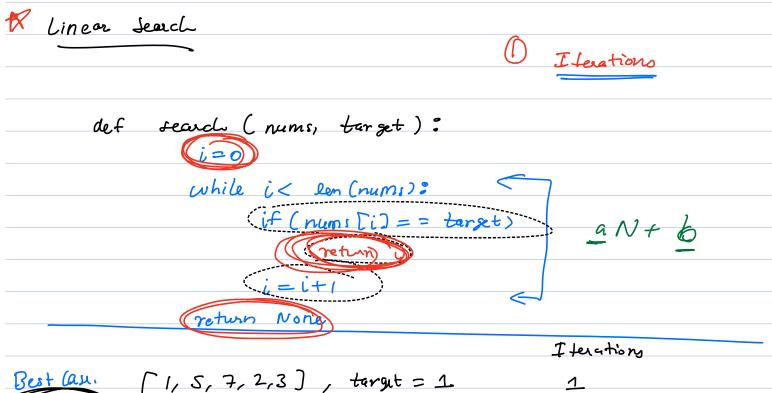


lower paver of N

N2+N

constant

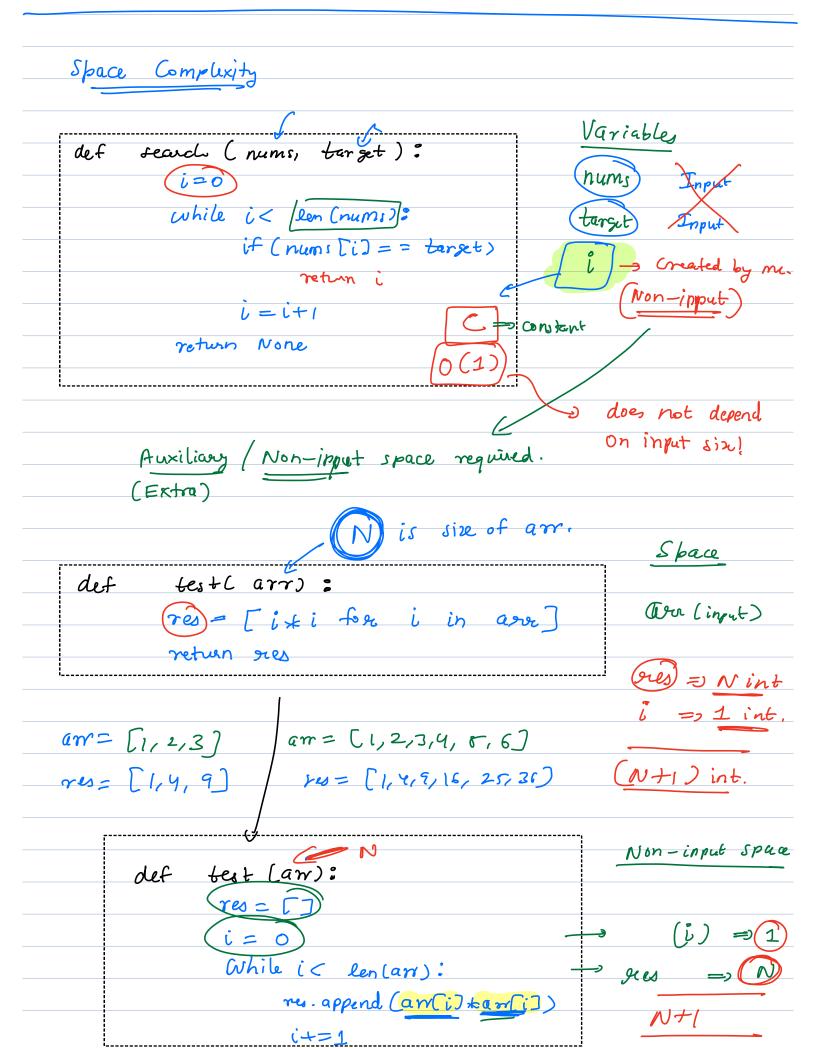




Worst-case by default. [O(N)]

[1,5,7,2,3], terset = 20

Norst Case



## Qui 22es

## list=[ 1,3,5,7,9]

```
GetEvens(list) {
    i = 0
    evensList = Create empty list
    while (i < len(list)) {
        if (list[i] % 2 == 0)
            Add list[i] to evensList
        i = i + 1
    }
    return evensList
}
What is the best case auxiliary space complexity?</pre>
```

e venslist = []

S(N)=k

[0(1)]

```
A S(N) = k (k is constant)
```

B S(N) = N + k (N is size of the list, k is constant)

93 users have participated

39%

61%

[2,4,6,8,101/2)

Worst-case

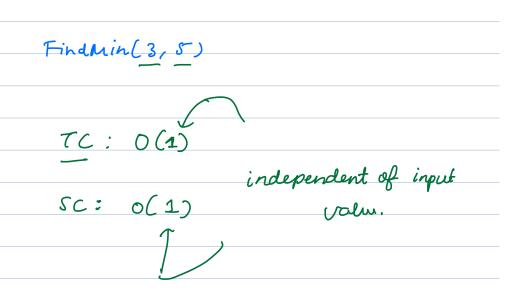
evenshist = [2,4,6,8,10,12]

SLN)= N+R.

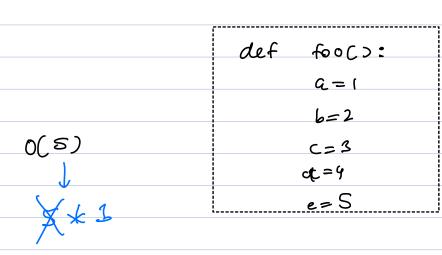
Best Case is O(1) independent of N value.

Wort Case is O(N).

## What is the time complexity of the below code: FindMin(x, y) { if (x < y) { return x } else { return y } } Chose the correct answer A O(N) B O(1)



SC: O(1)



1, N/N2, logN/ -

Mid-Mobile Test

Mid-Mobile Test

Live from next week, wed (14 tm)

until next to next week True. (20th)

Lived, 14th Class of in Intermediate module

including Python Refresher.