





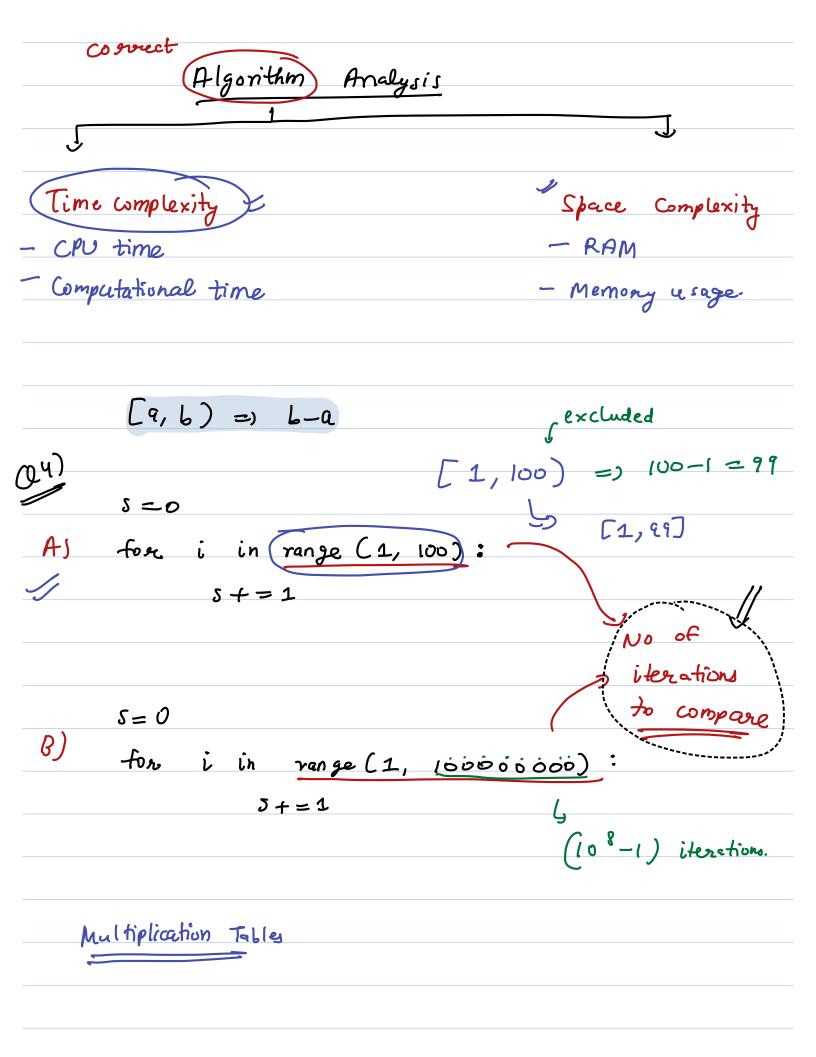
3/12

Q2

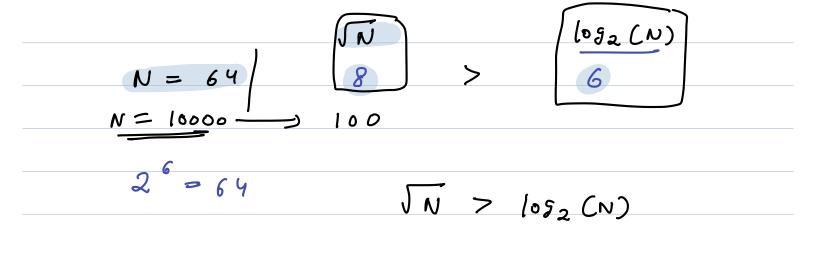
$$03 \qquad \log a = x \qquad a = a = x$$

$$\log_2(8)$$
 $2^3 = 8$ $\log_2(2^3) = 3$

$$z^{2}=z^{3}$$



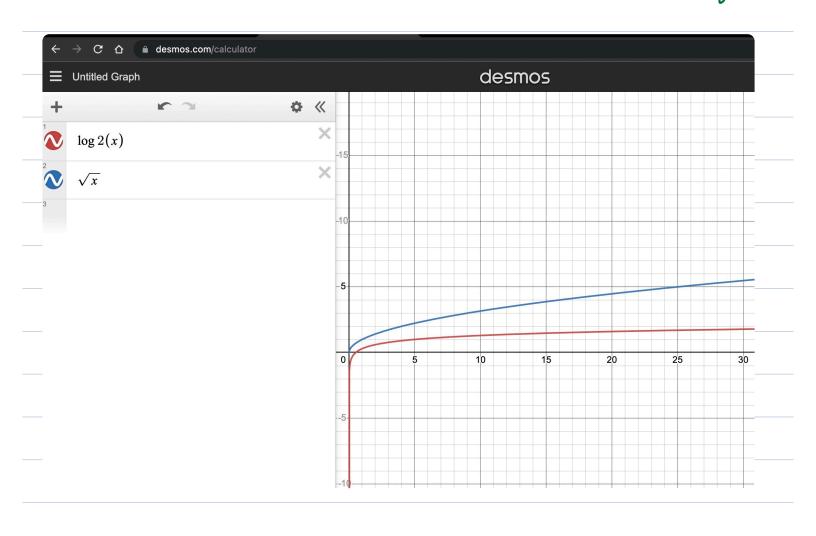
(a5)
$$S = 0$$
 [0,101) $S = 0$ [0,101] $S = 0$ [0,100] $S = 0$ [1, N+1) $S = 0$ [1, N+1) $S = 0$ [1, N+1] $S = 0$ [1, N+



Compare 2 functions of draw a graph

1052 (N)

for diff values of N.



$$i = N$$

while is1:

i= i//2

$$i=10 \qquad i \text{ before } \qquad \text{Theretions } i \text{ after } i=i//2$$

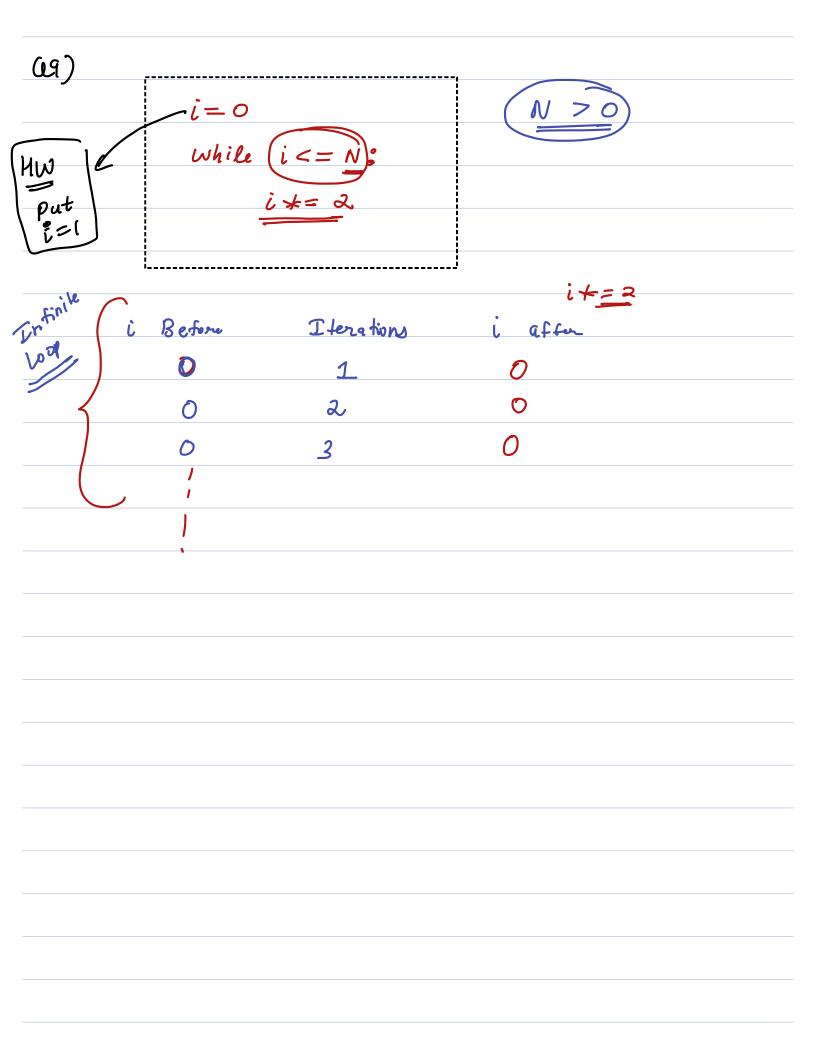
$$10 \qquad 1 \qquad 5$$

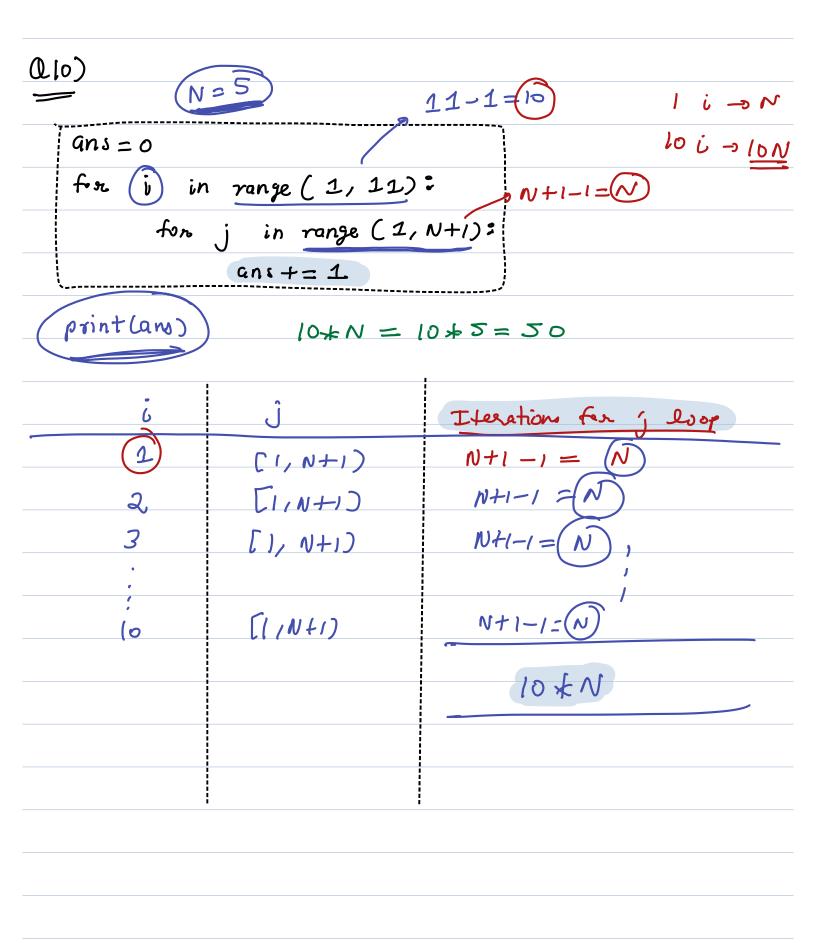
$$1 \qquad 10 \qquad 2 \qquad 2$$

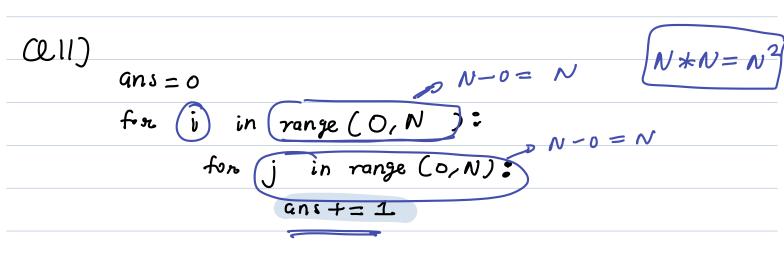
$$1 \qquad 2 \qquad 2 \qquad 3 \qquad 22 \qquad 41 \qquad 2 \qquad 3 \qquad 1$$

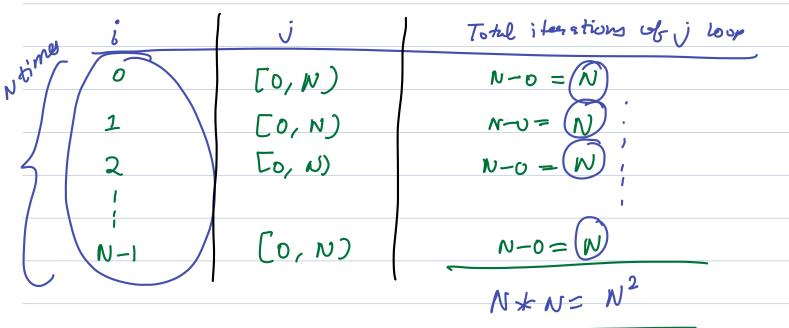
$$1 \qquad 1 \qquad 1 \qquad 1 \qquad 1$$

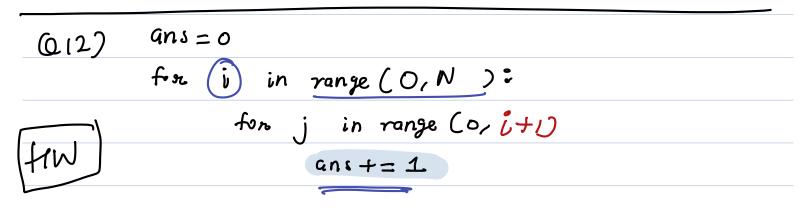
	i before	Iterations	i after i= i//2
	100	1	S ₀
log 2 (00 = 6).	50	2	२ऽ
	25	3	12
26 = 64 J blu (27 2= 128	12	Ч	6
2=128	6	5	3
	3	6	1_
	2		











Time Complexity to be continued - - --

Sorting Arranging the data in some order based on some parameter [1,7,2,4,9,6] } no of 1 1 1 1 fectory 1 2 2 3 3 4 Why sorting? to make slanding easier. 11.15 Sorting Algorithms

