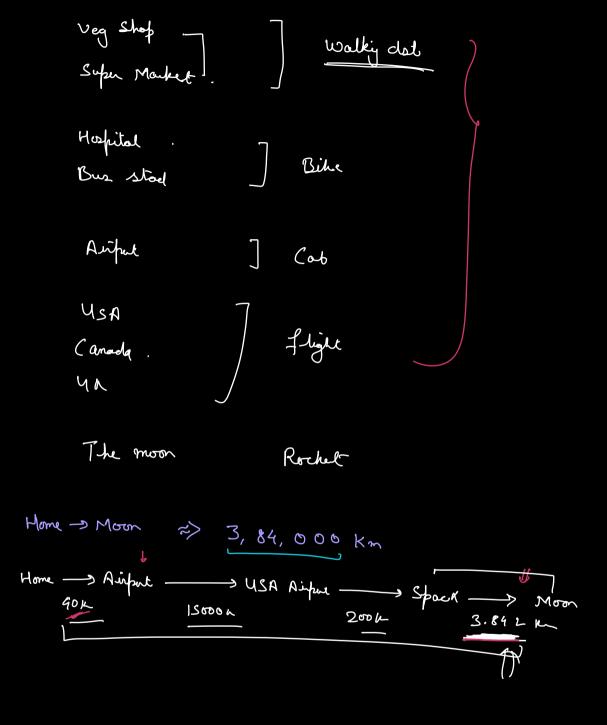
Mr. XOR Mr. Kay 20 ل 150 Manduare More book Pro Samsung 20ء 7_5 Language Pythm C/C++ د 5.6 د7 Physical Focti 7. 1. s 6.95 Selectió of Input

عدل

5.3 s



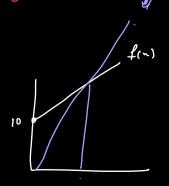
•

numberlye)

a function
$$f(n)$$
 will be $O(g(n))$

$$f(n) <= C, g(n)$$

any contact



$$f(n) = N$$

M, N^2 , N^3 , N^5

Limitation of Big - O

Algo I
(N2)

Algo 2 O (N3)

Time taken by Algo L is ALWAYS is lessen the that of Algo 2.

 $. 100N^{2} + 10N + 36 \implies O(N^{2})$ $. N^{3} \implies O(N^{3})$

$$\downarrow \\
01 = \mathcal{M}$$

$$M = |\omega|$$

$$O(N_r)$$

$$\mathcal{N}_{z}$$

break till 10:42p

Why O(logN) & not O(log2N)
b→c

$$b \rightarrow c$$

$$dy_b = \frac{dy_c x}{dy_c b}$$

void for (N) L

Space created;

Space Cemplenity = Input Space + Entra Space / Aunielley Space

Entra Space being created;

Quy $I = 10^6$

10,

Quiz 2

N log N

 v_{s}

NIN

 $N = 2^{32}$ 32

JN

<u>م</u> 216

$$f(N): 4N + 3N \log N + 10^{6}$$

$$G(M) = 0 \text{ and } f(N) = 0 \text{ and }$$