

while (full is not empty) 3 11 (type purcture) 9 3/drive

for (i=1; i = 30; i++) if (raining) f Continul, 3/play

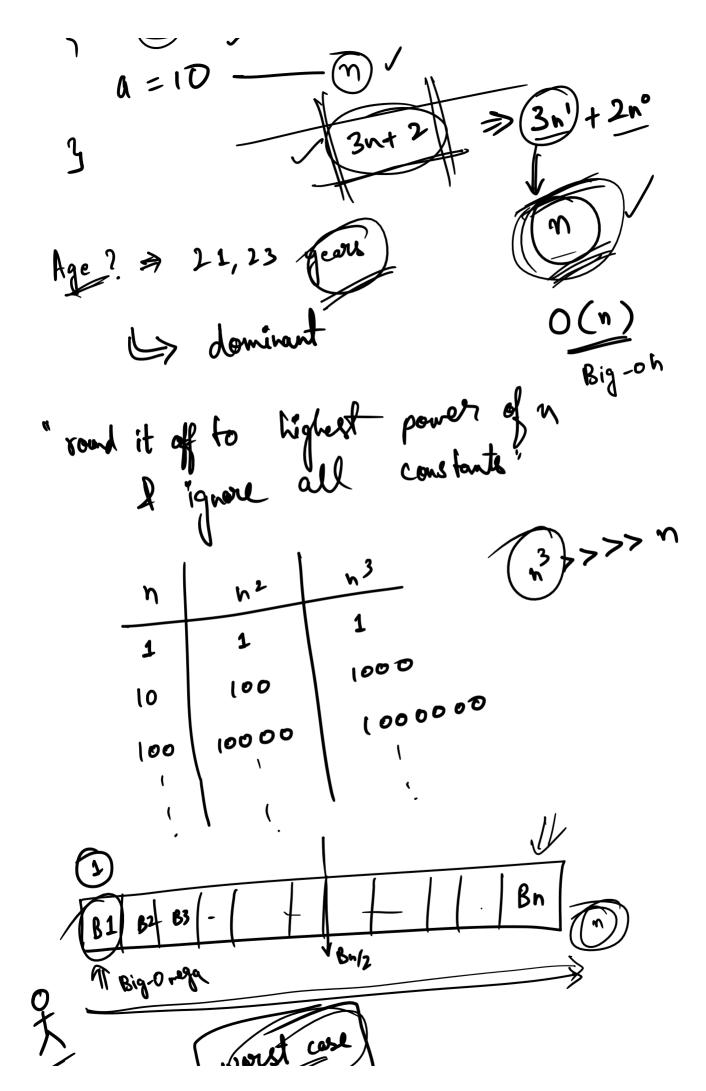
Time -> no. of lines -> hardware

Time Complenity

"no. of fines a stat is enecuted wrt i/p"

0=10

for (i=0; i=n; i+1),



Asymptotic Notation Big-Oh

for
$$(i=0; i\in n; i+1)$$
 $for (i=0; i\in n; i+1)$
 $for (i=0; i\in n; i+1) \rightarrow n$
 $for (i=0; i\in n; i+1) \rightarrow n$
 $for (i=0; i\in n; i+1) \rightarrow n$

 \sim (1)

$$0=10 - 0$$

$$b=20$$

$$c=30$$

$$d=40$$

$$e=50$$

$$for (i=0), i=50; i+t)$$

$$for (i=n), i=n, i+t) \rightarrow 1$$

$$for (i=0), i=(n), i+t) \rightarrow (n)$$

$$for (i=0), i=(n), i+t)$$

$$for (i=0), i=(n), i=(n), i+t)$$

$$for (i=0), i=(n), i=(n), i+t)$$

$$for (i=0), i=(n), i=(n), i=(n), i+t)$$

$$for (i=0), i=(n), i=($$

>> repeated division/monthsplication 12,12/2/2/2 x2, x2, x2 white (n > 0) 27170 for (n= ; n>0; n= w2) } 16× foo (i >6 +) > >>

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 $\frac{1}{2} \frac{1}{2} \frac{1}$