Brokem 1° Input a, b, M

Output: ab 1. M

-10%3 = -1

-6 (-10)7.3 = -1?+1?

O (log b)

-12 - (-10)

=-12+10=-2

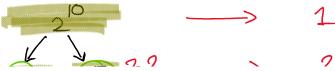
- - 15

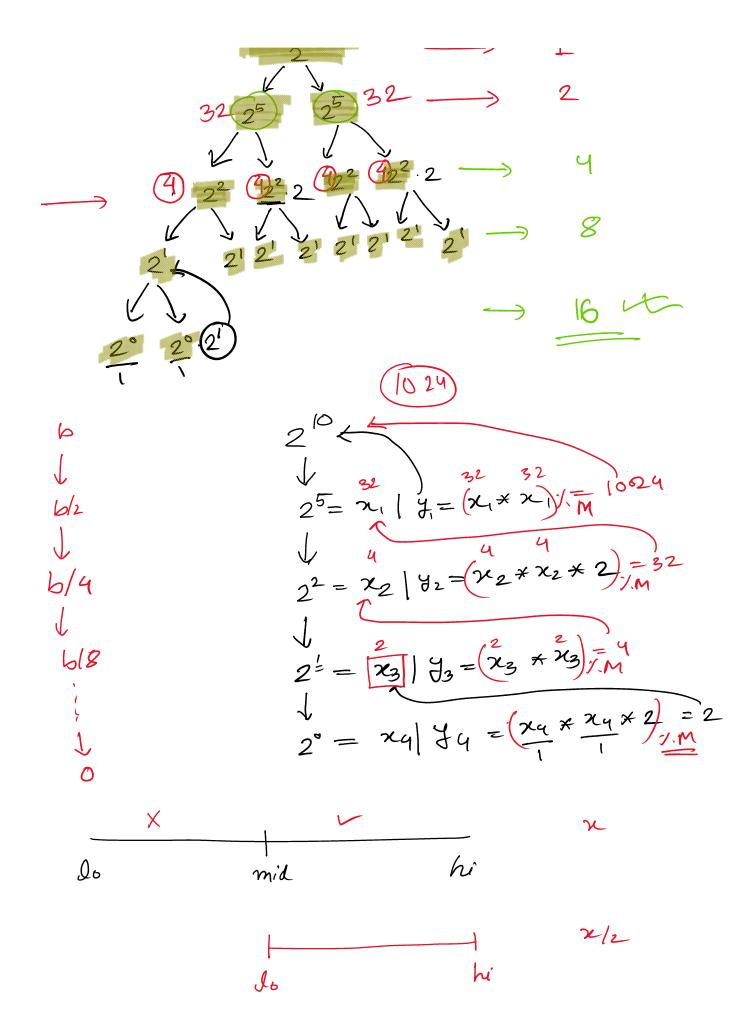
 $2^{100} / 17 \rightarrow pow(2,10)$ 

T.C: 0(b)

BigMod

1024 %5 -> (4)





O(logb)

$$(a \times b)\% M = (a\% m) \times (b\% m)\% M \times (a/b)\% M = (a\% m) / (b\% m)\% M \times (a/b)\% M = (a\% m) / (b\% m)\% M = (a/m) / (b\% m) % M = (a/m) / (b\% m) % M = (a/m) / (b/m) / (b/m) / (b/m) % M = (a/m) / (b/m) / (b/m) / (b/m) % M = (a/m) / (b/m) / (b/m$$

$$1^{\circ} = 1$$
 $100^{\circ} = 1$ 

$$24 = 2 \times 2 \times 2 \times 3$$
  
=  $2^{3} \times 3^{1}$ 

$$[1-N]$$
  $[3n(N)]$ 

(1) P < IN and 9 L IN X

on p SIN and 9 4 TN X

and 
$$2 > \sqrt{N}$$

and  $2 > \sqrt{N}$ 

by  $1 = \sqrt{N}$  and  $2 = \sqrt{N}$ 

$$N = \frac{\rho_1^{\alpha_1}}{\sqrt{2}} \times \frac{\rho_2^{\alpha_2}}{\sqrt{2}} \times \frac{\rho_3^{\alpha_3}}{\sqrt{2}} \times \frac{\rho_4^{\alpha_4}}{\sqrt{2}}$$

$$N = \frac{2 \times 2 \times 3 \times 5}{1} \times \frac{97}{1} = \frac{5820}{60}$$

$$\frac{N}{2\times2\times3\times5} = \frac{97}{7}$$

"= p.q >N