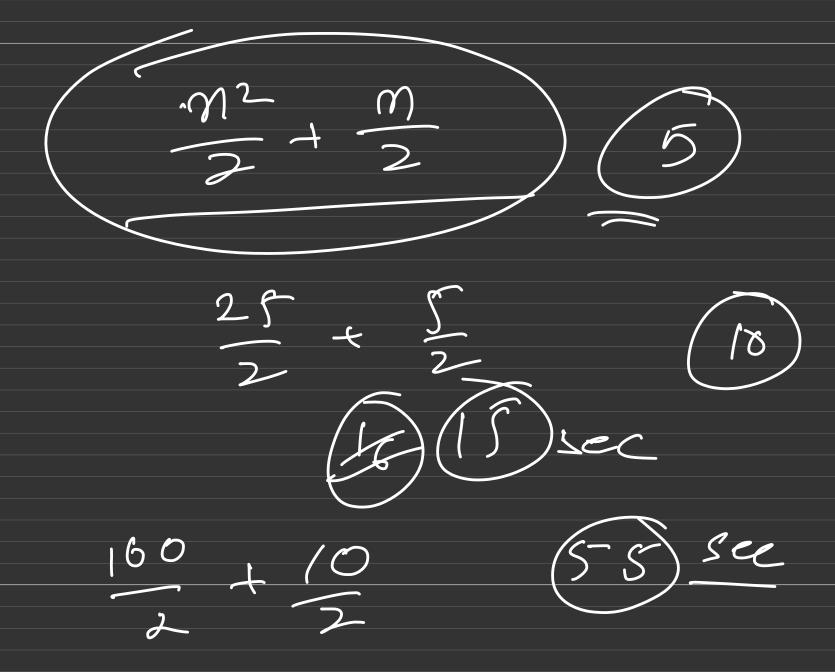
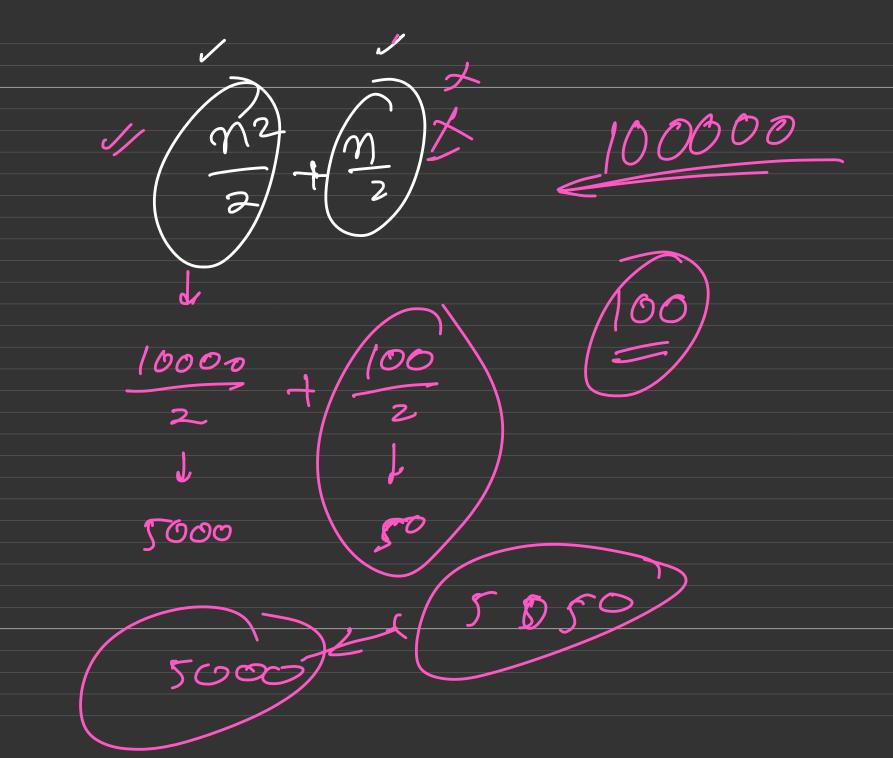
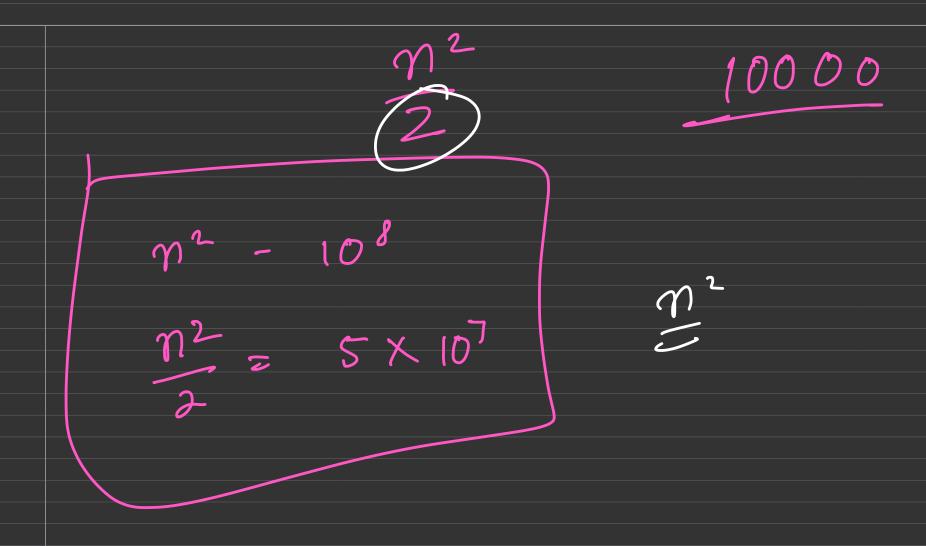


```
Sum ef n natural nums
Sum=0; (5) (10
> for (int i = 1; i == n; i++)
    for (int j = 1 j j 2 = 1 j j 1 + 1)
             \ sem ++; \}
```

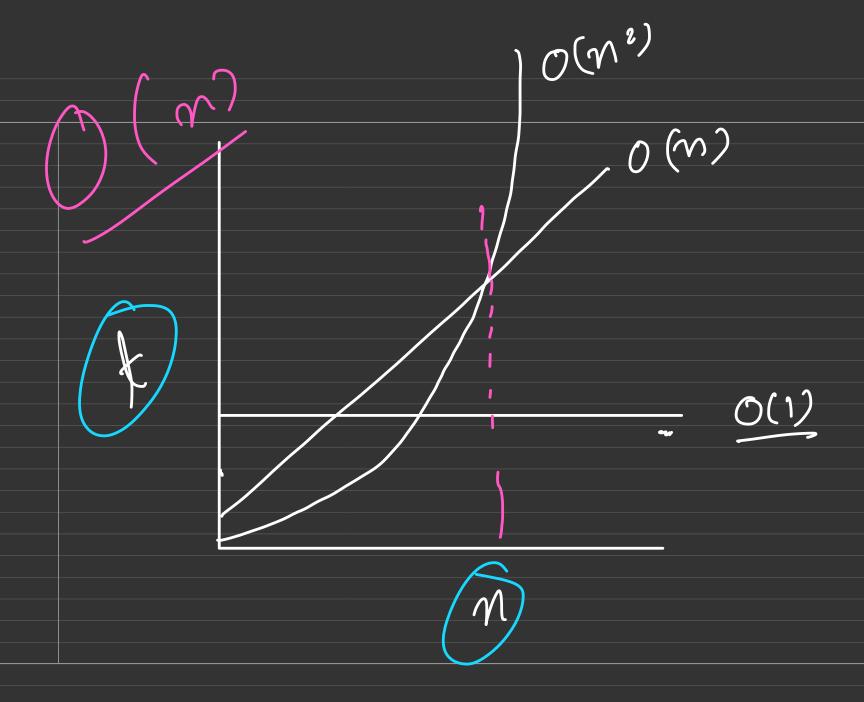






5 X 108

$$\int \frac{O(m^2)}{Msn} = \int \frac{1}{2} \frac{1}{2} \frac{1}{10} \frac{1}{10} \frac{O(m)}{O(m)} \frac$$



for (int 
$$i=1$$
;  $i = 2$ )

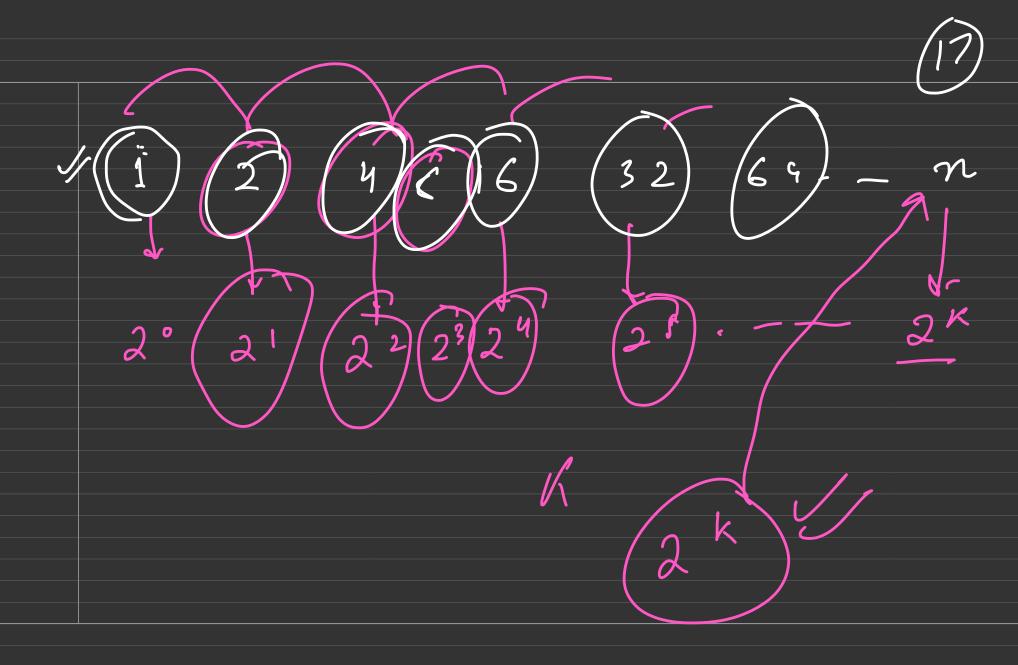
sprint ("Fraz");

$$O(n)$$

$$\frac{1}{3}$$

$$\frac{1}{3}$$

 $(intif = 1) i \leq \alpha$ 



$$2^{N} = n$$

$$\log(2^{N}) = \log(n)$$

$$K \log 2 = \log(n)$$

$$K = \frac{\log(n)}{\log 2} = \log n$$

$$\log 2$$

N

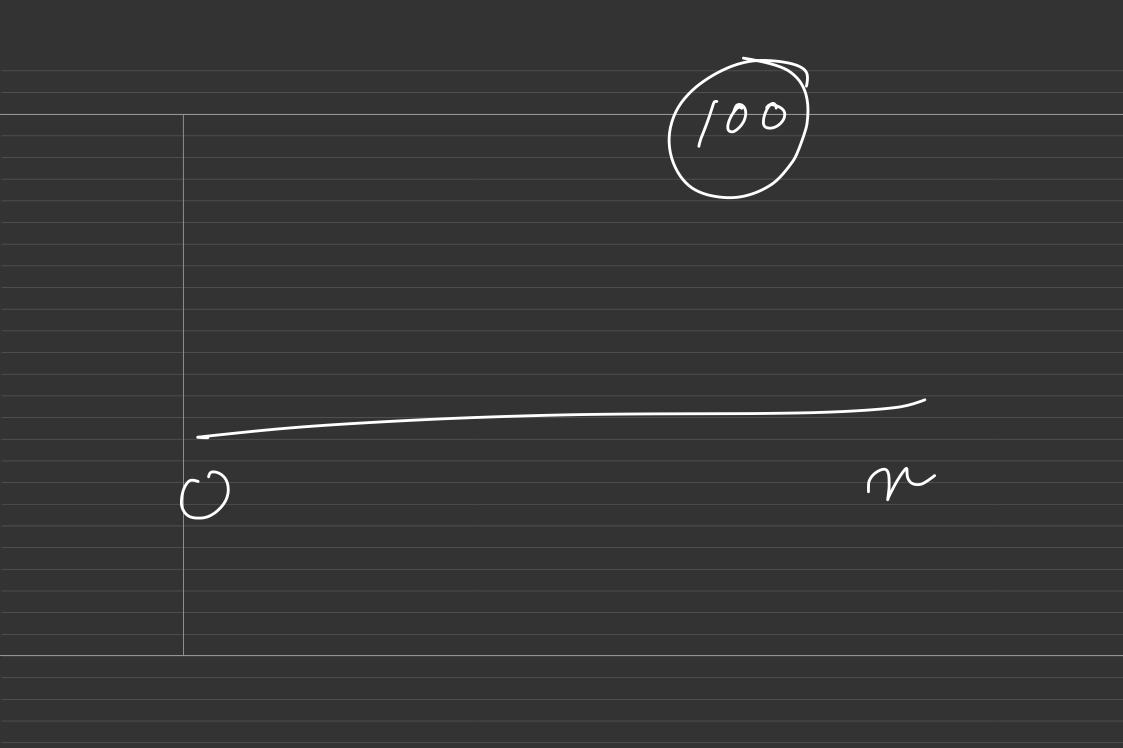
for 
$$(int i = m; iz = 1; il = 2)$$

$$\frac{n}{2} \frac{n}{2} \frac{n}{8} \dots 1$$

$$\frac{n}{2} \frac{n}{2} \frac{n}{2} \frac{n}{2} \dots \frac{n}{2}$$

R-Logn Log2 2 = 1 m = 2 K K= log m logn = log 2 K logn = Klog2

, | \_ = \_ i ', j 



[1,2,6,8,3,4,12]

for(i=1) i \* i \* z = m; i++)

for ( int i = 1; i < = m; i + +)  $(mtj=1)j \leq njj=j*2$