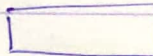


### \* Brute force

According to the question we have to ignore those elements which contains the digit 9.

Initialize int count for counting N natural nos. & checking each number from 1 until count  $\leq$  N is containing digit 9 or not.

loop (count  $\leq$  N) {

num   
↑↑↑↑  
↑↑↑↑  
num++

checking each no. whether it contains digit 9 or not

}

### \* Optimized

Before getting optimized solution we have to understand number systems with different bases.

Decimal	Binary	Ternary	.....
0	0	0	
1	1	1	
2	10	2	
3	11	10	
4	100	11	
5	101	12	
6	110	20	
7	111	21	
8	1000	22	
9	1001	100	