We'll start by 9:00 pm.

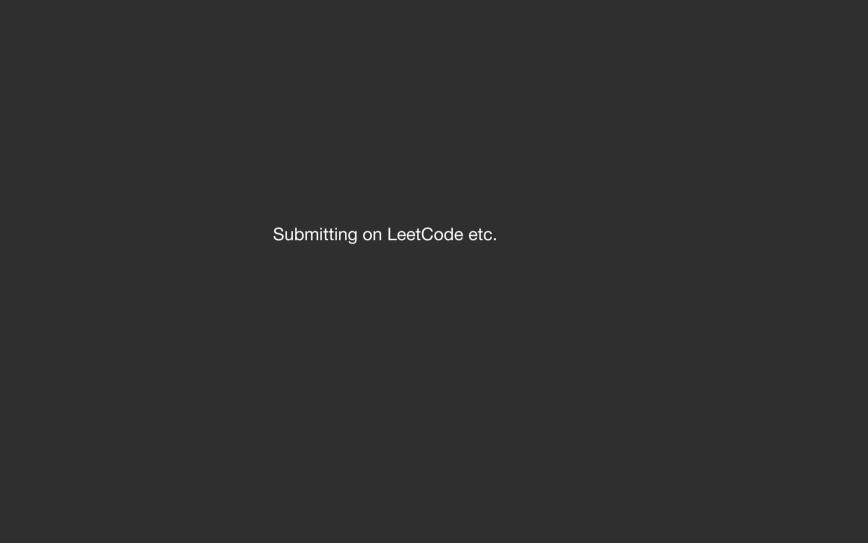
L6 - Java Loops Extra Class

RECAP

- 1. Given a value of R & K, print all the numbers from 1 to R that have sum of digits equal to K
- 2. While, do-while Loop
- 3. Given *target_cnt* and *target_sum*, print the first *target_cnt* numbers that have digit sum = *target_sum*
- 4. Check if a given number if prime or not?

Did you folks do homework?

Watched recordings? (for those who missed live)



given a number, check if it is prime or not?

Practice Continued

2153 => Sur of digits 2 11

Jon 1 to N

N2 15 => 2, 3, 5, 7, 11, 13

Print all prime numbers from 1 to N.

for (int num = 2; num <= N; ++ num) { // Check it num is prime boolean is Prime = true; forlist [2 2; [< num; ++i) if (num. i ==0) { is Prime = false, break; } 1/ If yes, then brint it if (is Prime) System. out printly (num);

$$(2^3)$$

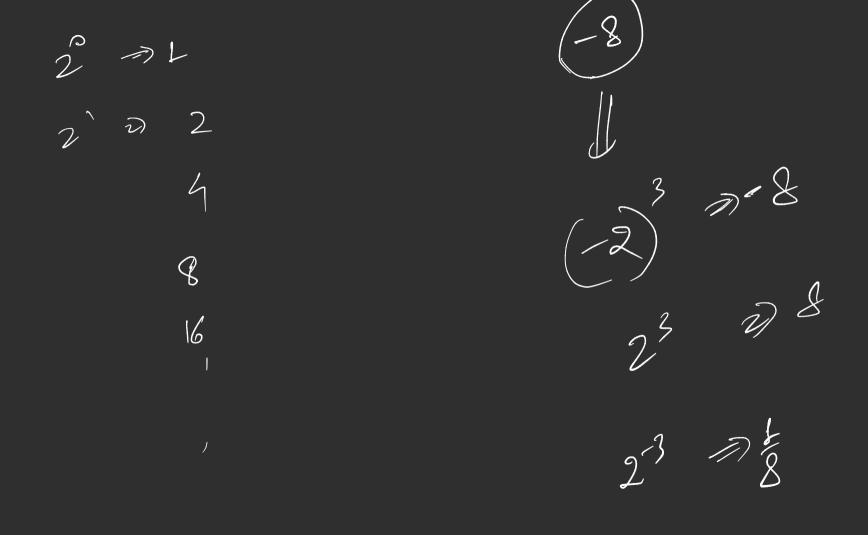
Given a number, check if it's a power of 2 or not

2⁵ z

$$N_2 2^k * 3 * 7^2 \implies 3 * 7^2 \Rightarrow 147$$

$$\frac{1}{2} \frac{2 * 2 * 2 * 2 - - - 2}{\text{k fimul}}$$

$$\frac{2^{k}}{2^{l}} \Rightarrow \frac{2^{k+1}}{2^{l}} \Rightarrow 2^{k-2} \Rightarrow 2^{k-3} - - - - 2^{3}, 2^{2}, 2^{1}, 1$$



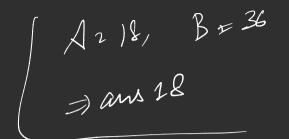
gcd > greatest common divisor.

Find HCF of 2 given numbers

Wighest common factor

A224, B218

6



1, 2, 3, 6



24

722 32 M 2K3 2V No 36 => /w Az 36 Na 35 à No No No No. 33 0 19 442 D No Yes No 18 0 /W