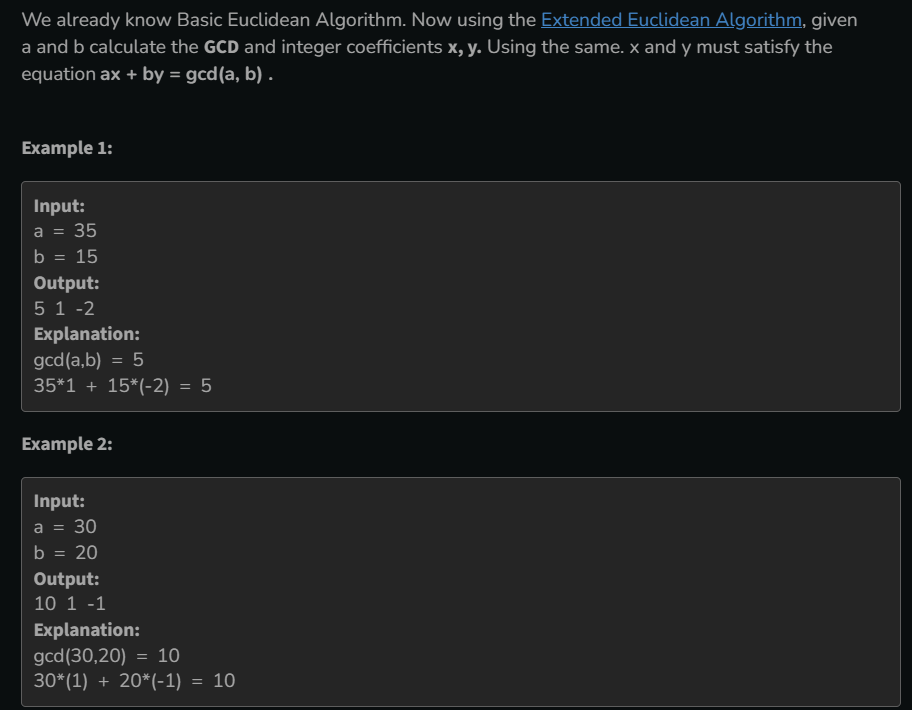
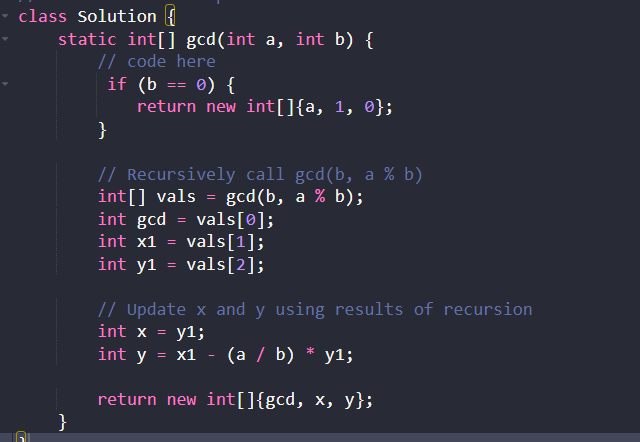
**Math and Bitmanipulation**

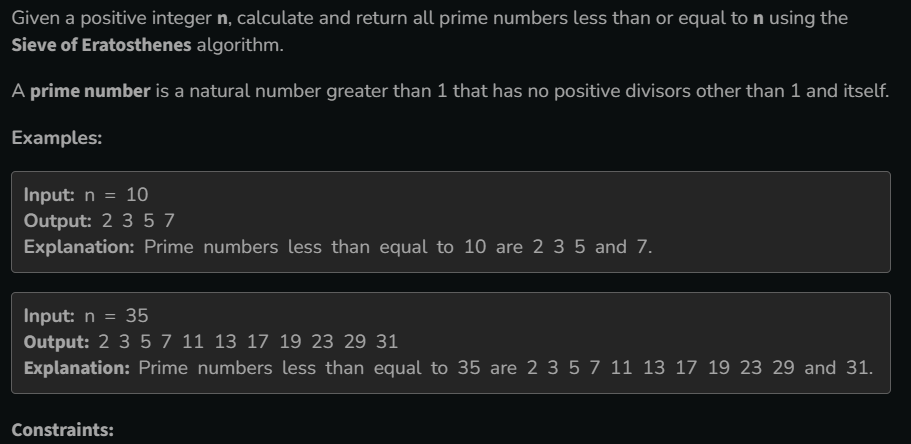
**Math**

1.Extended Euclidean Algorithm(Gcd and Hcf)



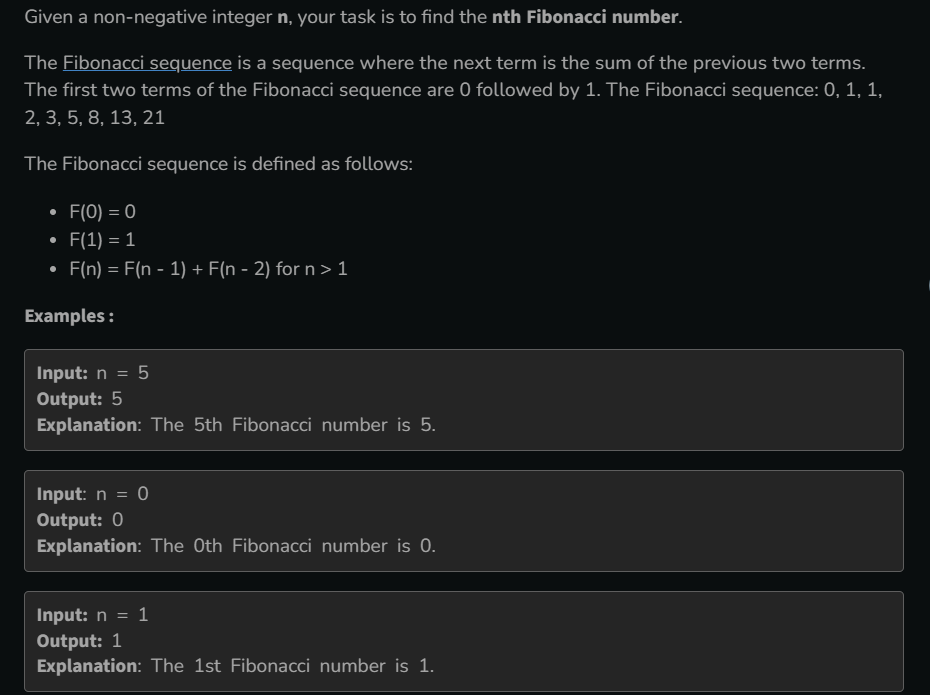


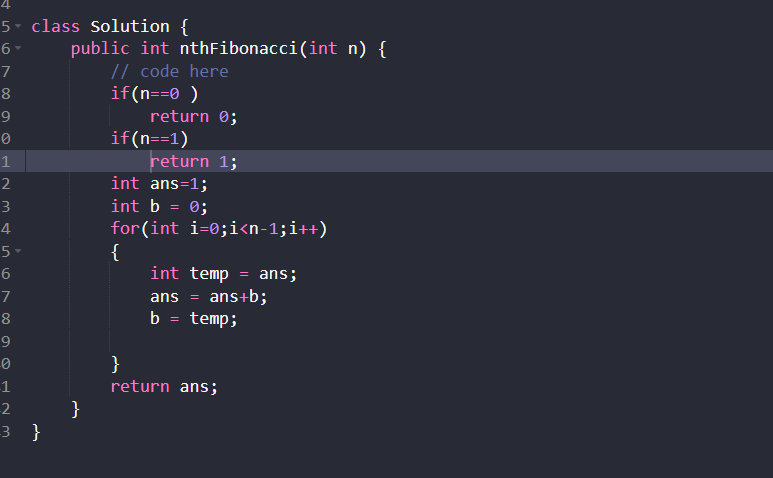
2.Sieve of Eratosthenes



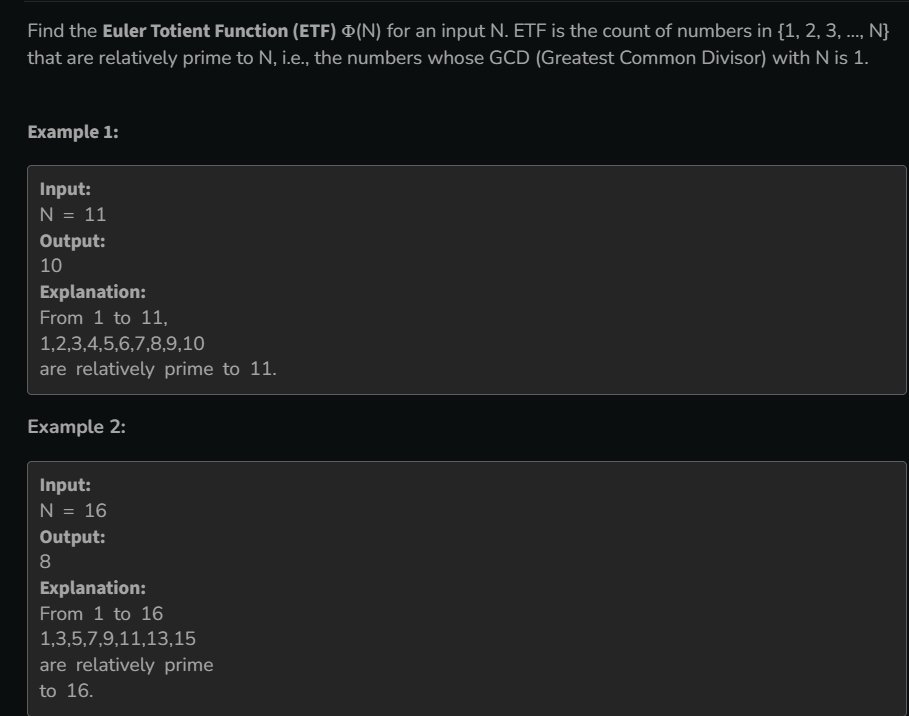


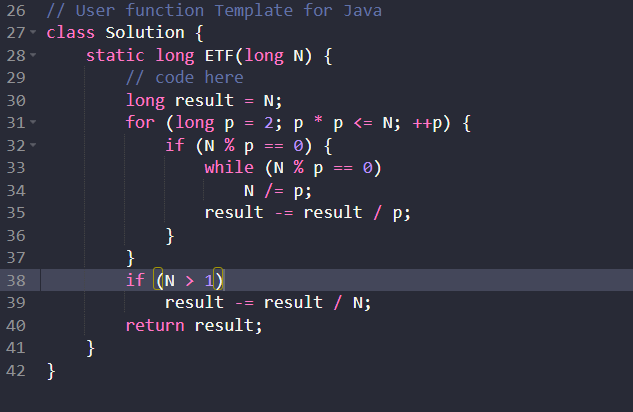
4.Nth Fibonacci Number





4.Euler Totient Function





Learn About Catalan Number(Imp)

<https://www.geeksforgeeks.org/catalan-numbers/>

3.Learn About Modular Arithmetic

<https://www.geeksforgeeks.org/modular-arithmetic/>

Learn About Prime Factorisation

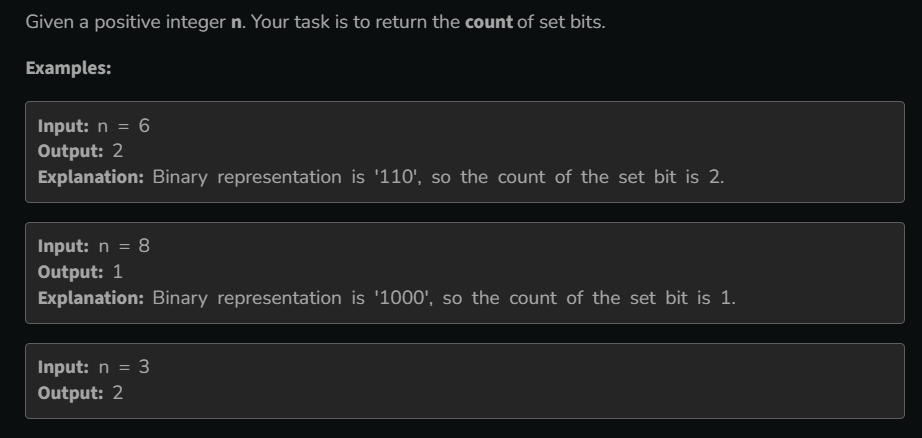
<https://www.geeksforgeeks.org/prime-factorization/>

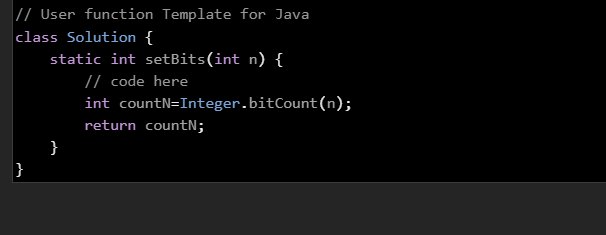
Learn About Chinese remainder theorem

<https://www.geeksforgeeks.org/chinese-remainder-theorem/>

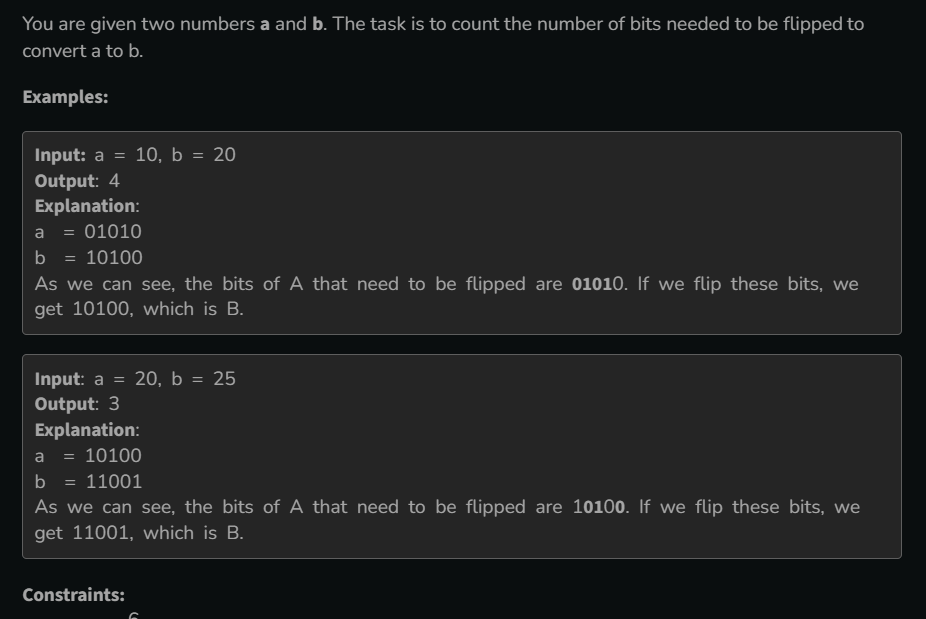
**Bit Manipulation**

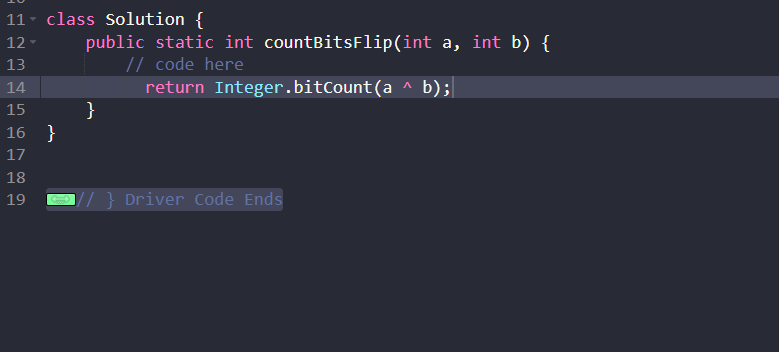
**1.Count set bit in an integer(No. of 1 bit)**

****

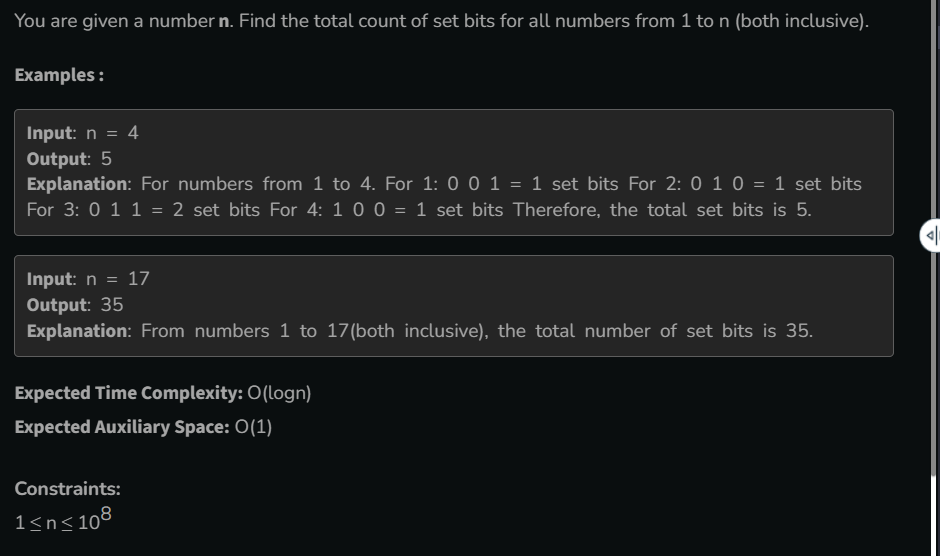
****

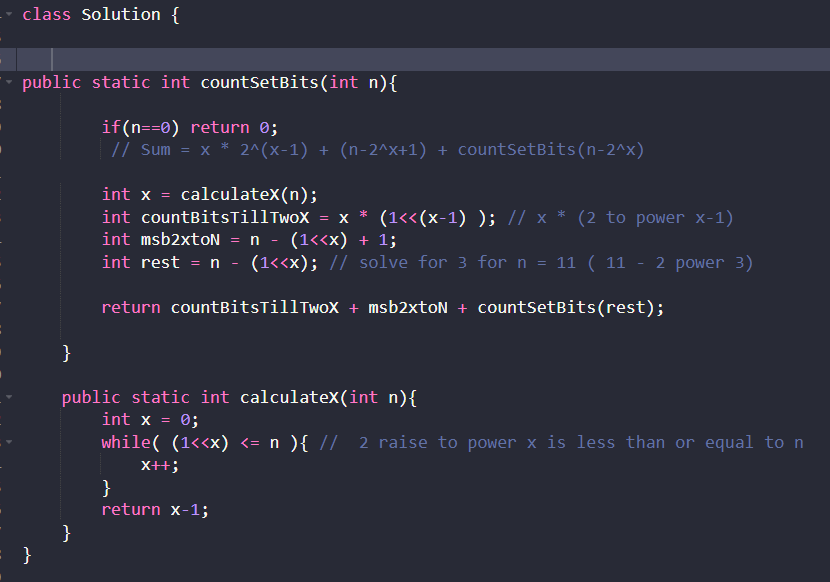
**2.Bit difference**

****

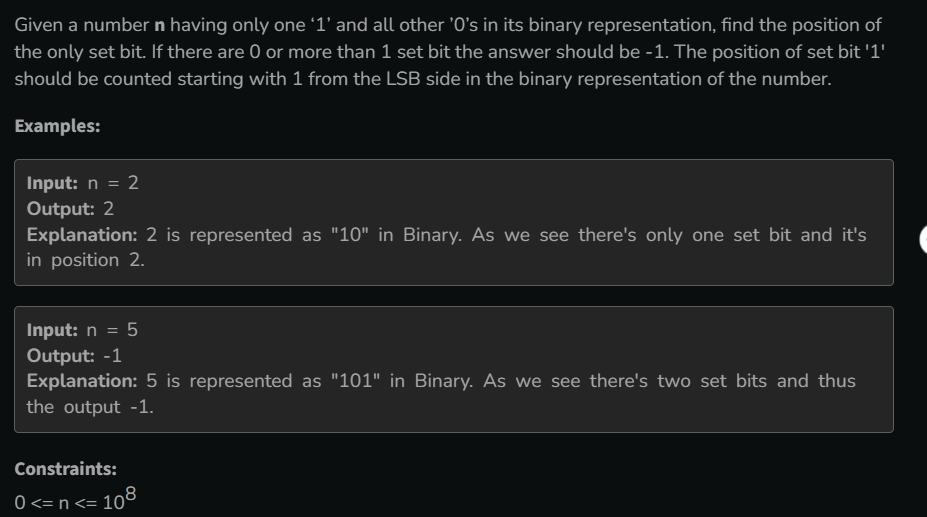
****

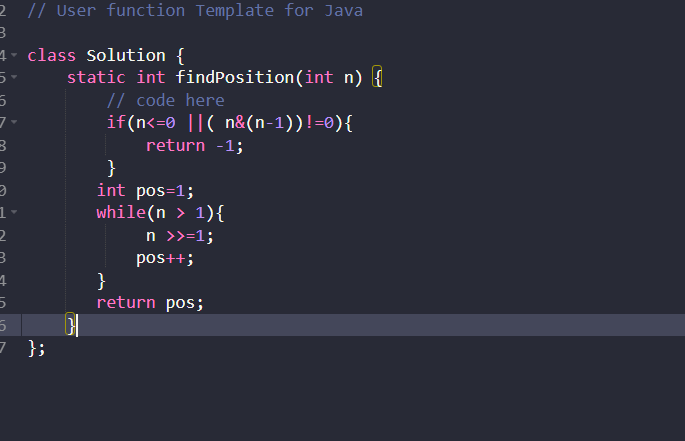
**3.Count total Set bits**

****

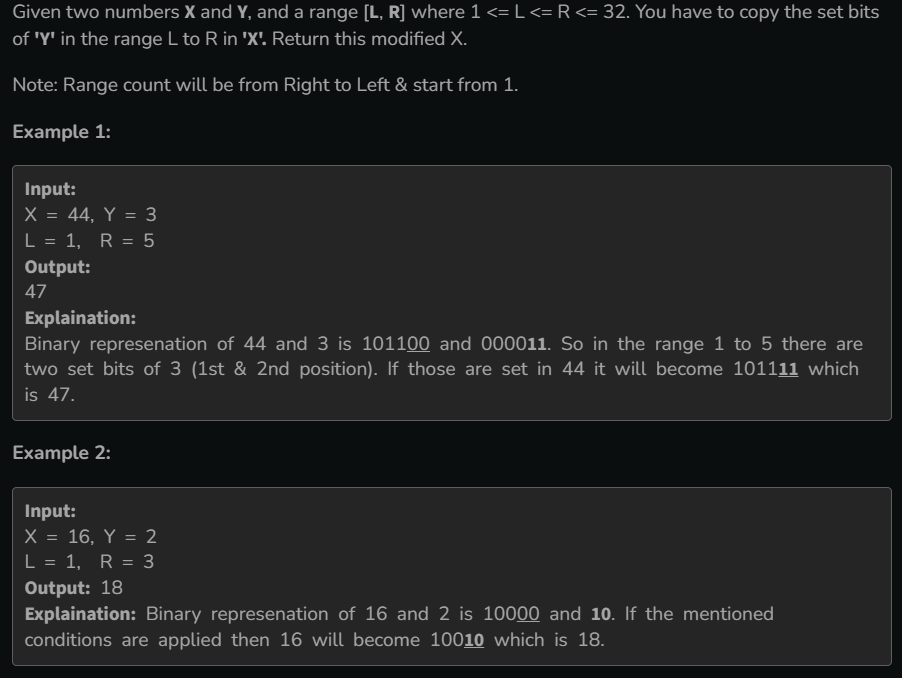
****

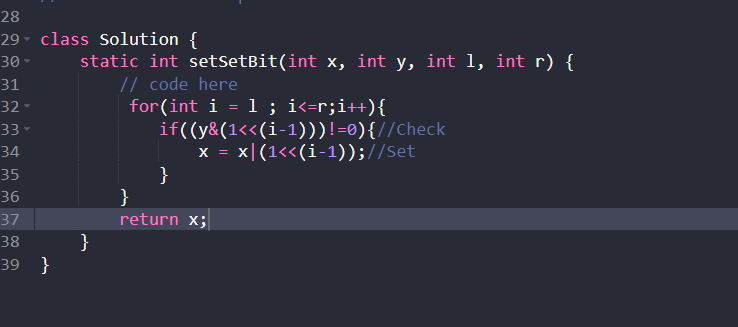
**4.Find Position of set bit**

****

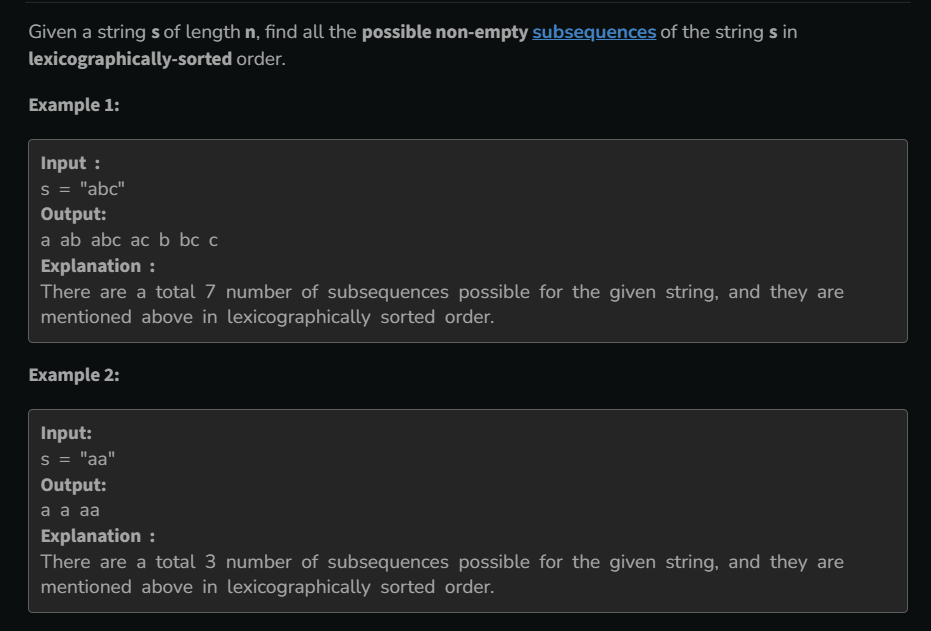
****

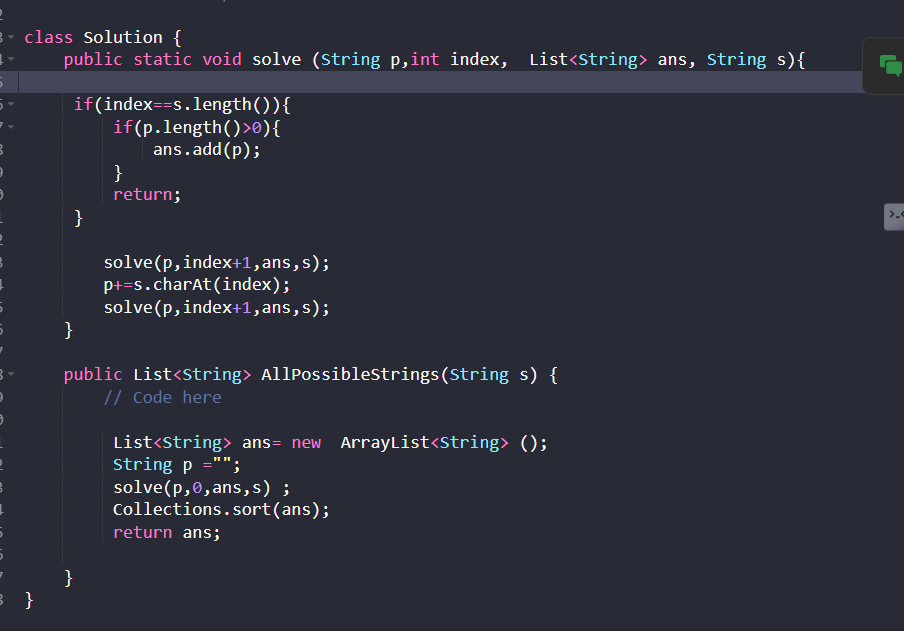
**5.Copy set bit in range**

****

****

**6.Power Set**

****

****