

Sr.	Problem Definition		
1	WAP to find whether given number is Prime or not .		
2	WAP to find whether given number is Ugly or not .		
	An ugly number is a <i>positive</i> integer which does not	have a prime factor other than 2, 3, and 5.	
	Input : $n = 6$ Output : true Explanation : $6 = 2 \times 3$		
3	WAP to find whether given number is Kaprekar or not .		
	A Kaprekar number is a non-negative integer that, vequals the original number.	when squared, can be split into two parts whose sum	
	For E.g. 45 is a Kaprekar number because 45 square	d (2025) can be split into 20 and 25, and 20 + 25 = 45.	
4	WAP to find whether given number is Automorphic or not .		
	An automorphic number is a number whose square	-	
	For example, 5 is automorphic because $5^2 = 25$, whi		
	Similarly, 76 is automorphic because 76 ² = 5776, wh		
5	WAP to find whether given number is Pronic or not .		
	other words, N is a Pronic Number if there exists a r	product of two consecutive non-negative integers. In	
	E.g. 6 is a Pronic Number because 6=2*3	ion-negative integer k such that N = K (K + 1).	
6	Write a program to check whether number is Happy	/ number or not	
		square summation eventually reaches to 1, if the	
	sequence start repeating then it is not a happy num	•	
	E.g., 49 is a happy number whose sequence is 49 97	7 130 10 1.	
	E.g., 50 is not a happy number whose sequence is 5	50 25 29 85 89 145 42 20 4 16 37 58 89 it should stop	
	when 89 is detected 2nd time and print 50 is not a h	nappy number.	
7	WAP that finds an angle between clock hands for the	ne provided value of Minutes and Hours.	
8	WAP to Convert a Decimal to Octal and vice versa.		
9	WAP to Convert a Decimal to Hexa-decimal and vice	e versa.	
10	WAP to enter an element at specific position into ar	ray. (Do not take a new array)	
11	Implement a following pattern		
	For n=4	For n=5	
	1	1	
	2 5	2 6	
	3 6 8	3 7 10	
	4 7 9 10	4 8 11 13	
4.5		5 9 12 14 15	
12	WAP to implement a following pattern		
	1 1 * 1		
	1*3*1		
	1*3*5*3*1		



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		result in sorted order.	



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19	Write a program to print following pattern	
	For n=5	
	1 2 3 4 5	
	10 9 8 7 6	
	11 12 13 14 15	
	20 19 18 17 16	
	21 22 23 24 25	
20	Write a program to print following pattern	
	For n=4	
	4 4 4 4 4 4 4	
	4 3 3 3 3 4	
	4 3 2 2 3 4	
	4 3 2 1 2 3 4	
	4 3 2 2 3 4	
	4 3 3 3 3 4	
	4 4 4 4 4 4 4	
21	WAP to sort an Array using insertion sort.	
22	WAP to sort an Array using selection sort.	
23	Given an array, rotate the array to the right by k steps, where k is non-negative.	
	Input: nums = [1,2,3,4,5,6,7], k = 3	
	Output: [5,6,7,1,2,3,4]	
24	Given an array arr[], the task is to reverse the array. Reversing an array means rearranging the elements such that the first element becomes the last, the second element becomes second last and so on. (Do	
	not use any additional Array)	
	Input: arr[] = {1, 4, 3, 2, 6, 5}	
	Output: {5, 6, 2, 3, 4, 1}	
25	WAP for following Scenario.	
	Given n rupees and a chocolate price of m for each chocolate, with a wrapper exchange offer of 1	
	chocolate per k wrappers, calculate the total number of chocolates you can eat with n rupees.	
26	Find the difference between the second largest element and the second smallest element of an array.	
	Input: Enter the size of array: 7 Enter 7 elements: 5 1 9 7 1 5 3	
	Output: Difference: 4	
27	WAP for given N digits , arrange them to form the largest number divisible by 3.	
28	Write a program that should decode the given pattern and print the resulting expanded string.	
	Input: 2a3bc4dE5F2G7H	
	Output: aabbbcddddEFFFFFGGHHHHHHH	



Sr.	Problem Definition
29	Given an integer n , return the least number of perfect square numbers that sum to n.
	Input : n = 12 Output : 3 Explanation : 12 = 4 + 4 + 4.
	Input: n = 13 Output: 2 Explanation: 13 = 4 + 9.
30	WAP to check whether number is present in array or not (using recursion only) and the function's syntax is given below
	int isInArray(int a [], int m); Where int a [] is Array of integer and m is element to be searched.
31	Given a string S of length n , the task is to find the earliest repeated character in it. The earliest repeated character means, the character that occurs more than once and whose second occurrence has the smallest index.
	Input: s = "geeksforgeeks"
	Output: e
	Explanation : e is the first element that repeats
32	Given two strings s1 and s2 consisting of lowercase characters, the task is to check whether the two given strings are anagrams of each other or not. An anagram of a string is another string that contains the same characters, only the order of characters can be different.
	Input: s1 = "geeks" s2 = "kseeg"
	Output: true
	Explanation : Both the strings have the same characters with same frequency. So, they are anagrams.
33	Take an Input in the form of Binary String that contains only 0's and 1's and convert this number into integer. Input: 101.110
	Output: 5.75
34	Given an array of positive integers arr[] of size n, the task is to find the second largest distinct element in the array.
	Note: If the second largest element does not exist, return -1.
	Input: arr[] = [12, 35, 1, 10, 34, 1]
	Output: 34
	Explanation : The largest element of the array is 35 and the second largest element is 34.
	Input: arr[] = [10, 10, 10]
	Output: -1
	Explanation : The largest element of the array is 10 there is no second largest element.
35	Given an array nums with n integers, your task is to check if it could become non-decreasing by modifying at most one element.
	Input: nums = [4,2,3]
	Output: true
	Explanation: You could modify the first 4 to 1 to get a non-decreasing array.
36	Given an array of N integers, and an integer K, find the number of pairs of elements in the array whose sum is equal to K.
	Input: N = 4, K = 6, arr[] = {1, 5, 7, 1} Output: 2



Sr.	Problem Definition	
37	WAP to multiply two matrices with error checking for dimension compatibility.	
38	Write a Function that returns either 1 or 0 based on following condition if the array is in ascending order and occurrence of that number at least 3 then it should return 1 otherwise it should return 0. e.g. if A=[1,1,1,2,2] it should return 0, if A= [1,1,1,3,3,3,3] it should return 1.	
39		
40	Given 2 sorted arrays a[] and b[], each of size n, the task is to find the median of the array obtained after merging a[] and b[]. Input: a[] = [1, 12, 15, 26, 38], b[] = [2, 13, 17, 30, 45] Output: 16 Explanation: The middle two elements are 15 and 17, so median = (15 + 17)/2 = 16	
41	You are given n disks placed on a starting rod (from), with the smallest disk on top and the largest at the bottom. There are three rods: the starting rod(from), the target rod (to), and an auxiliary rod (aux). You have to calculate the total number of moves required to transfer all n disks from the starting rod to the target rod, following these rules: 1. Only one disk can be moved at a time. 2. A disk can only be placed on top of a larger disk or on an empty rod. Return the number of moves needed to complete the task. Input: n = 3 Output: 7 Explanation: For N=3, steps will be as follows in the example and total 7 steps will be taken. move disk 1 from rod 1 to rod 3 move disk 2 from rod 1 to rod 2 move disk 1 from rod 3 to rod 2	



Sr.	Problem Definition	
	move disk 3 from rod 1 to rod 3	
	move disk 1 from rod 2 to rod 1	
	move disk 2 from rod 2 to rod 3	
	move disk 1 from rod 1 to rod 3	
42	Given an integer n, return the n th digit of the infinite integer sequence [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,]. Input : n = 11 => Output : 0	
	Explanation: The 11 th digit of the sequence 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, is a 0, which is part of the number 10.	
43	WAP for following Scenario.	
	A child is running up a staircase with n steps and can hop either 1 step, 2 steps, or 3 steps at a time. The task is to implement a method to count how many possible ways the child can run up the stairs.	
44	Find a next lexicographical order string from a given string, if input is abc output is acb (2 conditions must be followed: the string must be greater than the inputted string and the outputted string must be the smallest string from all possible strings).	
45	You are given a 0-indexed array nums consisting of positive integers. You can choose two indices i and j, such that i != j, and the sum of digits of the number nums[i] is equal to that of nums[j]. Return the maximum value of nums[i] + nums[j] that you can obtain over all possible indices i and j that satisfy the conditions.	
	Input: nums = [18,43,36,13,7] Output: 54	
	Explanation: The pairs (i, j) that satisfy the conditions are:	
	- (0, 2), both numbers have a sum of digits equal to 9, and their sum is 18 + 36 = 54.	
	- $(1, 4)$, both numbers have a sum of digits equal to 7, and their sum is $43 + 7 = 50$.	
	So the maximum sum that we can obtain is 54.	
46	Given a non-negative integer x, compute and return the square root of x. Since the return type is an integer, the decimal digits are truncated, and only the integer part of the result is returned. Note: You are not allowed to use any built-in exponent function or operator, such as pow(x, 0.5) or x ** 0.5.	
47	You are given several boxes with different colors represented by different positive numbers. You may experience several rounds to remove boxes until there is no box left. Each time you can choose some continuous boxes with the same color, remove them and get k * k points. Return the maximum points you can get.	
	Input: boxes = [1,3,2,2,2,3,4,3,1] Output: 23	
	Explanation: [1, 3, 2, 2, 2, 3, 4, 3, 1]	
	> [1, 3, 3, 4, 3, 1] (3*3=9 points)	
	> [1, 3, 3, 3, 1] (1*1=1 points)	
	> [1, 1] (3*3=9 points)	
	> [] (2*2=4 points)	
48	Given an unsorted integer array nums, return the smallest missing positive integer. You must implement an algorithm that runs in O(n) time and uses constant extra space.	
	Input: nums = [1,2,0] Output: 3	



Sr.	Problem Definition
49	Given an array nums of distinct integers, return all the possible permutations. You can return the answer in any order.
	Input : nums = [1,2,3] Output : [[1,2,3],[1,3,2],[2,1,3],[2,3,1],[3,1,2],[3,2,1]]
50	Given a string that contains a special character together with alphabets ('a' to 'z' and 'A' to 'Z'), reverse the string in a way that special characters are not affected.
	Input: a!!!b.c.d,e'f,ghi
	Output: i!!!h.g.f,e'd,cba
	Input: str = "Ab,c,de!\$"
	Output: str = "ed,c,bA!\$"
51	Given an array of coins [] of size n and a target value sum , where coins [i] represent the coins of different denominations. You have an infinite supply of each of the coins. The task is to find the minimum number of coins required to make the given value sum . If it is not possible to form the sum using the given coins, return -1 . Input: coins[] = [25, 10, 5], sum = 30
	Output: 2
	Explanation: Minimum 2 coins needed, 25 and 5
	Input : coins[] = [9, 6, 5, 1], sum = 19
	Output: 3
	Explanation : 19 = 9 + 9 + 1
52	Find if a given string can be represented from a substring by iterating the substring "n" times.
	Input: str = "abcabcabc" Output: true
	Input: str = "aabaabaabaab" Output: true
	Input: str = "abcdabc" Output: false