

- C. A number is said to be a special number, if the sum of the factorial of the digits of a number is same as the original number. Example-145 is a special number, because $1! + 4! + 5! = 145$. Print all special numbers within range 100 to 999.

Home Assignment

- D. A composite magic number is positive integer which is composite as well as magic number. Composite number is a number that has more than two factors (For example 10, factors are 1, 2, 5, 10). A magic number is a number in which eventual sum of the digits is equals to 1 (For example $28 = 2+8= 10=1+0=1$). Write a java program which accepts two positive integer m and n, where m is less than n. Display the composite magic positive integers that are in range between m and n (both inclusive) and output them along with frequency.

Example- m=10 and n=100

Composite magic integers are 10, 28, 46, 55, 64, 82, 91, 100

Frequency of composite magic integers is 8.

- E. A circular prime number is a prime number that remains prime under cyclic shifts of digits. When the leftmost digit is removed and replaced at the end of remaining string of digits, the generated number is still prime. The process is repeated until the original number is reached again. A number is said to be prime if it has only two factors 1 and itself. Write a java program which will accept a positive number N and check whether it is a circular prime or not. The new numbers formed after shifting of digits should also be displayed.

Example- 131 – 311 – 113 [131 is Circular Prime]

197 – 971 – 719 [197 is Circular Prime]

1193 – 1931 – 9311 -3119 [1193 is circular Prime]

29 – 92 [29 is not circular prime]

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