

NUMBER PROBLEM APPLICATIONS

1. Given a number, print it out forwards and backwards, then add them together. Eg. $234 + 432 = 666$.
2. Enter two six digit numbers. From each number, form a new number consisting of the 2nd, 4th, and 6th digits. Find the sum of these new formed numbers.
Example: 623841 -> 281
 711846 -> 186
 Sum -> 467
3. Consider that a drivers registration number has the format 94807856590703. Write a program which checks the validity of this number. If the number is valid, the digits when totalled must be divisible evenly by 7.
4. Find all 3 digit whole numbers that are divisible by the product of their digits. There are 20 such numbers.
5. For numbers from 1000-2000 determine which are divisible by the sum of the squares of their digits.
6. Take a 3 digits numbers like 200, reverse it (002), and then multiply the two numbers. The result 400 is a perfect square. Find all such 3 digit numbers between 100-300.