

Further Programming Problems

- 1) Add two 3 digit numbers together. Now find the remainder when your answer is divided by 9. This is the same as the answer when you divide each number by 9 separately and then add the two remainders.

Check this is true for all pairs of numbers from 100 to 200.

- 2) Find the first five numbers which when divided by 3 gives a remainder of 1, when divided by 4 gives a remainder of 2, when divided by 5 gives a remainder of 3, and when divided by 6 gives a remainder of 4.
- 3) I am thinking of a 3 digit number. If you subtract 7 from it the result is divisible by 7; if 8, divisible by 8; if 9, divisible by 9. What is the number?