

1994 Paper 6 Question 5

Programming in C

Write a program in C which can solve cryptarithmic puzzles in the format of the sum of two words. For example, given the input

$$\begin{array}{r} \text{SEND} \\ +\text{MORE} \\ \hline \text{MONEY} \end{array}$$

the program would output

$$\begin{array}{r} 9567 \\ +1085 \\ \hline 10652 \end{array}$$

N.B. Each letter represents a different digit.

[20 marks]