6. An algorithm is required to record a series of whole numbers between 1 and 65535.

The algorithm should:

- accept the input of each number
- stop accepting numbers when a rogue value is entered (a number larger than 65535)
- output the total of all the numbers entered
- output the mean of all the numbers entered
- output the largest number entered
- output the smallest number entered

An example of the *input* and output required is shown below.

Enter a number: *570*

Enter a number: *1438*

Enter a number: *65537*

Total: 2008

Mean: 1004

Largest: 1438

Smallest: 570

Write an algorithm to meet these requirements. Enter your algorithm in the electronic answer document.   [9]