

MEDIAN ~~THE~~ VALUE

5. (8 points) Write a program to input up to 30 values into an array. The program should then calculate and print the median value of the list. The median value of a list of numbers is calculated as follows:

If the number of values in the list is odd, the median value is the middle value in the list when the list is sorted; that is, there are an equal number of values greater than and less than the median.

If the number of values in the list is even, the median value is the average of the two numbers that are closest to the middle of the list when the list is sorted; again, there are an equal number of values greater than and less than the median.

EXAMPLE:

Input: 41 53 51 74 59 44 98 80 71 55

Answer:

41 44 51 53 55 59 71 74 80 98 (Sorted list)
57

Output: The median value is 57.