

HHC2007 Programming Contest

Problem statement:

Using the HP35s ONLY, do the following:

1. Accept as an input , an integer from 1 to 9,999,999,999. None of the digits of an input number will be zero, i.e., 102 will not be given as an input.
2. Sort the digits of the integer into increasing order and display the result as one integer.
3. No other external program initiation allowed.
4. Program should conclude with the restoration of the original state. For example, if you set a flag, clear it before the program ends.
5. Use LBL A for your program. Program execution should begin at step A001.
6. Bring your HP 35s with the program using Label A to the judging table (or to the judge) **BEFORE** the Sunday HP Panel Discussion begins, scheduled around 1pm SUNDAY.
7. Write your name, where you are from and the SERIAL NUMBER of your 35s to submit along with the 35s calculator itself (especially if you want your 35s back!)

Examples:

1. Given input of 1, return 1.
2. Given input of 321, return 123.
3. Given input of 5151, return 1155.
4. Given input of 9991188, return 1188999.

Judging:

1. The decision of the judges is final.
2. Judges will run the program using 4 inputs.
3. Using total time on the 4 runs, fastest program wins.
4. Any failure to sort an input from the judge disqualifies the entry.
5. Execution of the program will begin by the judge pressing XEQ A ENTER.
6. Contest is NULL and VOID if fewer than 5 people submit entries.