Project_Euler_013

February 4, 2018

Work out the first ten digits of the sum of the following one-hundred 50-digit numbers.

22918802058777319719839450180888072429661980811197

In [2]: clusterjumble = """

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10848802521674670883215120185883543223812876952786
71329612474782464538636993009049310363619763878039
62184073572399794223406235393808339651327408011116
66627891981488087797941876876144230030984490851411
60661826293682836764744779239180335110989069790714
85786944089552990653640447425576083659976645795096
66024396409905389607120198219976047599490197230297
64913982680032973156037120041377903785566085089252
16730939319872750275468906903707539413042652315011
94809377245048795150954100921645863754710598436791
78639167021187492431995700641917969777599028300699
15368713711936614952811305876380278410754449733078
40789923115535562561142322423255033685442488917353
44889911501440648020369068063960672322193204149535
41503128880339536053299340368006977710650566631954
81234880673210146739058568557934581403627822703280
82616570773948327592232845941706525094512325230608
22918802058777319719839450180888072429661980811197
77158542502016545090413245809786882778948721859617
72107838435069186155435662884062257473692284509516
20849603980134001723930671666823555245252804609722
53503534226472524250874054075591789781264330331690
# First, split the big string by line and put that in a list:
cluster = clusterjumble.strip().split("\n")
# Next, turn it into a list of integers:
cluster_ints = map(int, cluster)
# Finally add it together, turn it back into a a string,
```

The first 10 digits of the sum are: 5537376230.