

Machine Problem 4

For this project you will write a program to add very large (unsigned) integers. The two summands should be stored arrays, one array for each summand. The summands should be stored with one digit per location in the two arrays. Your program should, starting at the least significant digits compute the sum by adding the two integers digit by digit. Do not forget to handle carries. Your program should be able to handle summands with up to 80 digits each.

Here is the test data for your program:

- First summand 999999999999999999999999999999
 - Second summand 1
- First summand 1
 - Second summand 999999999999999999999999999999
- First summand 900000000000000000000000000000
 - Second summand 999999999999999999999999999999
- First summand 999999999999999999999999999999
 - Second summand 999999999999999999999999999999

Notice that for the last two sets of test data both summands have the same number of digits.