**Homework 1028: Contact DB**

Last modified: 14 November 2021

**Description**

All work on this assignment must be completed entirely in a Unix environment, either Linux or Mac OS.

If you wish, you may re-do your 1028 assignment, fixing the things I indicated in the feedback, and following the original assignment. For the redo, you must submit by 8:00 am Monday, 29 November. If you do not submit a redo, I will grade your original submission for 1028.

You must strictly follow all rules in the coding style guide. In addition, some of the particular things I noticed in multiple submissions include:

* the array of contact pointers must be *statically* declared at compile time, like this:  
  Contact\* contacts[MAX\_NUMBER\_OF\_CONTACTS];  
  each individual contact is dynamically allocated (and deallocated) as needed
* the only place int should appear in the entire system is

int main(int argc, char\*\* argv)

int is not appropriate anywhere else in the entire system. if you have any ints, they should probably be size\_t instead

* the only place unsigned is appropriate is if you wish to have the equivalent of a Boolean variable, with values 0 or 1
* if you are not completely sure how strncpy works, you are probably safer using strcpy instead. a number of instances of strncpy I saw are fairly dodgy, and some are frankly wrong
* a file should be opened, processed, and closed, all in one function. do not open a file in main(), pass the opened file to another function, and then close the file back in main(). this is highly coupled code, a very bad thing. the assignment says to read the file at the beginning of the program, and write the file at the end; at no other time should the file be open
* menu selections must accept either uppercase or lowercase letters: Aa, Ss, Dd, Qq
* NEVER return or exit from a loop! NEVER have a construct such as while (1)
* only have an #include <foo.h> in a file if the contents of foo.h are needed *in this file*

Submit your .tgz tarball to the [homework submission](https://borax.truman.edu/250/submit.php) page.