NAME:	

COLLABORATOR(S):___

50 POINTS

5/3/1/0 1. What value does **fopen()** return if the file does not exist?

2. Match the file open mode to the description:

10/8/4/0

(a) Open file for writing, create the file if it doesn't exist or tructate it if it does

r ___

(b) Open the file for reading and writing, reading occurs at the start of the file, writing occurs at the end of the file

..

(c) Open the file for writing and reading, create the file if it doesn't exist or truncate it if it does

a+

(d) Open file reading reading and writing, do not create the file if it doesn't exist and do not truncate it if it does.

w+

(e)Open the file reading, do not create the file if it doesn't exist and do not truncate it if it does.

10/8/4/0

3. Label all the things wrong with this program below and describe to the right: (hint: Don't forget about error checking)

```
#include <stdlib.h>
int main( int argc, char * argv[]){
  file * stream;
    stream = open("file.txt", "r");
    fprintf(stream, "Hello World");
    return 0;
}
```

NAME:

4. Write the corrected code from question 3: 5/3/1/0 5. Consider the type below, fill in the fwrite() statement to write that type to a file: typedef struct{ long acctnum; double bal; char acctname[1024]; } acct t; int main(int argc, char *argv[]){ acct t acc; acct.accnum=123456789011; bal=1000000000000; //I'm rich! strcpy(acctname, "Adam Aviv"); FILE * out = open("acct.dat", "w"); 10/8/4/0 fwrite(); fclose(out); 6. Consider a file, accts.dat, which stores 1000 accounts formatted like above. Complete the fread() command to read all those accounts in: int main(int argc, char * argv[]){ acc_t accts[1000]; FILE * in = open("accts.dat","r"); 10/8/4/0 fread(); int i; for(i=0;i<1000;i++){ printf("%1 (%f) -- %s\n", accts[i].acctnum, accts[i].bal, accts[i].acctname); } fclose(in);

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