```
#include <iostream>
#include <cstdlib>
#include <sys/types.h>
#include <sys/stat.h>
#include <fcntl.h>
#include <unistd.h>
#include <clocale>
#include <cstring>
#include <cwchar>
using namespace std;
bool w; //bytes
bool m; //new line entries
bool c; // characters
bool 1; // words
int characterTotal;
int wordsTotal;
int bytTotal;
int nwlnTotal;
int tempargc;
void wc(const char * filename);
int main(int argc, char * argv[]){
 // int t{};
 tempargc = argc;
  std::setlocale(LC_ALL, "en_US.utf8");
  int h = 0;
 cout.setf(ios::unitbuf);
 char buf[900];
 //int s{};
  int j{};
  while((j = getopt(argc, argv, "clmw")) != -1){
    switch(j){
    case 'c':
     c = true;
     break;
    case 'l':
     l = true;
      break;
    case'm':
     m= true;
     break;
    case 'w':
     w = true;
     break;
    default:
     return EXIT FAILURE;
  }
```

```
for(unsigned int i =0; i <sizeof(buf); i++) {</pre>
    buf[i] = ' \setminus 0';
       wc((char*)argv[argc-1]);
      h++;
 cout << "The number of files is " << h << "\n";</pre>
  return EXIT SUCCESS;
}
void wc(const char * filename) {
  int byt = 0;
 int words = 0;
 int nwln = 0;
  int totalBytes = 0;
  char buffer[1];
 enum states { WHITESPACE, WORD };
  int state = WHITESPACE;
  int g\{\};
  //int fd;
  int chr = 0;
  char sp = ' ';
    g = (open(filename, O RDWR));
      if (g == -1) {
       perror("wc");
       cout << "can not find " << filename << endl;</pre>
     else{
        while ((1 == (read(g, buffer, 1)))) {
            chr++;
            byt++;
            if( buffer[0] == ' ' || buffer[0] == '\t'){
            state = WHITESPACE;
            else if (buffer[0] == '\n') {
            nwln++;
            state = WHITESPACE;
            }
            else{
            if ( state == WHITESPACE) {
             words++;
            state = WORD;
            sp = buffer[0];
        }
```

```
if(c) {//this should be the changed one b/c of weird characters
    cout << byt << " ";
    bytTotal += byt;
}
if(l) {
    cout << nwln << " ";
    nwlnTotal =+ nwln;
}
if(m) {//number of characters
    cout << chr << " ";
    characterTotal =+ chr;
}
if(w) {
    cout << words << " ";
    wordsTotal =+ words;
}
else { // take from standard input
}
cout << filename << endl;
}</pre>
```