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**CPE 329** 

Assignment 0

## 6 Bit Counter:

## Word Sort:

```
#include <stdio.h>
#include <stdib.h>
#include <string.h>

#define WORD_LEN 256

int cmpStr(const void* a, const void* b) {
    return strcmp(*(const char**) a, *(const char**)b);
}

void printList(char** list, int size) {
    int i;
    printf("Sorted List:\n");
    for(i = 0; i < size; i++)
        printf("%s", list[i]);
}</pre>
```

```
int main(int argc, char** argv) {
   FILE* file = NULL;
    char* fileName = (char*) malloc(WORD LEN);
   printf("Enter the name of the file to sort: ");
    scanf("%s", fileName);
    if(NULL == (file = fopen(fileName, "r+"))){
        fprintf(stderr, "Failed to open %s file\n", fileName);
        exit(1);
    }
    char length[WORD LEN];
    fgets(length, WORD LEN, file);
    int len of file = atoi(length);
    char** list = malloc(sizeof(char*) * len_of_file);
    int i;
    for(i = 0; i < len_of_file + 1; i++){</pre>
       list[i] = (char*) malloc(WORD LEN);
        fgets(list[i], WORD_LEN, file);
    qsort(list, i - 1, sizeof(char*), cmpStr);
    printList(list, i);
    return 0;
```