

Assignment-2: Operating on Files

1. Write a C program which will do the following tasks.
 - a) Randomly generate 10 numbers from the range 1-50 and store them into a file named “source.txt”.
 - b) Store the numbers into an array from the file “source.txt” and sort it using any sorting algorithm.
 - c) Copy the sorted array into a file named “target.txt”.
2. Write a C program to read a text file “input.txt” containing a sparse matrix in a compact form shown below and write the sparse matrix into a file “output.txt” in expanded form.

e.g.

5 5 4		0 0 0 2 0
0 3 2		0 5 0 0 0
1 1 5		0 0 0 0 0
3 2 4		0 0 4 0 0
4 4 7		0 0 0 0 7
input.txt		output.txt