Idea fetch values from a file and print them in another file as output, also apply a mathematical function to the values

2 text files : datain, dataout
example for a datain file:
48ooooo
456oooo
78ooooo
7oooooo
8oooooo
5oooooo
45ooooo
448oooo
43ooooo

To make it easier to fetch the values we add 'o's to make each line 7 characters long
The grammar : each value has between 1 and 7 digits and each file can contain up to 10 lines

Note : adapt to csv files

Variables : The size of the array variables are 80 because of the format we chose, 2 arrays are needed : one for storing the characters from datain file, another one for storing integers values and apply some math function. **CharArray and Intarray, FILE *fp, fp2**

C fuction used : fprintf, fread and **sprintf** from <stdio.h>, **atoi** from <stdlib.h> + fopen() fclose()

3 different conversions :
Datain –fread()--chartab--atoi()--intarray--fprintf()--dataout
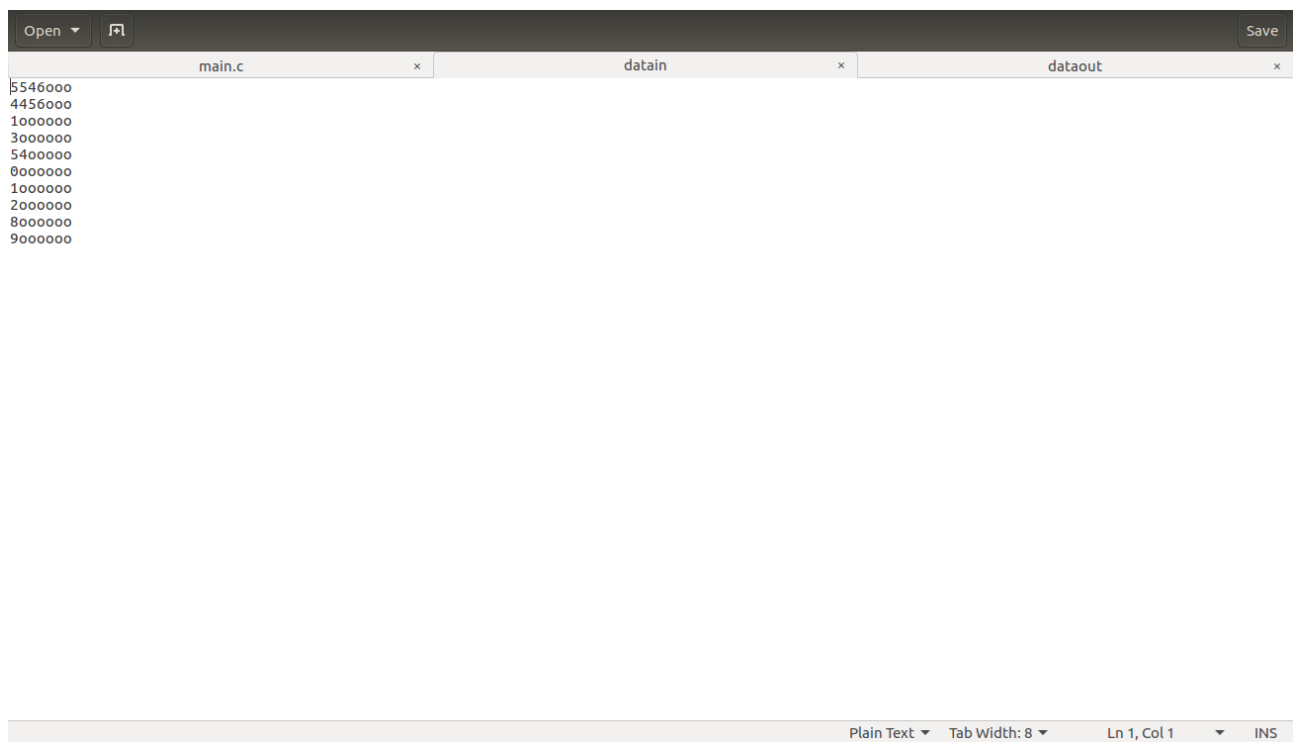
Datain file	CharArray	IntArray	Dataout file

fread

atoi
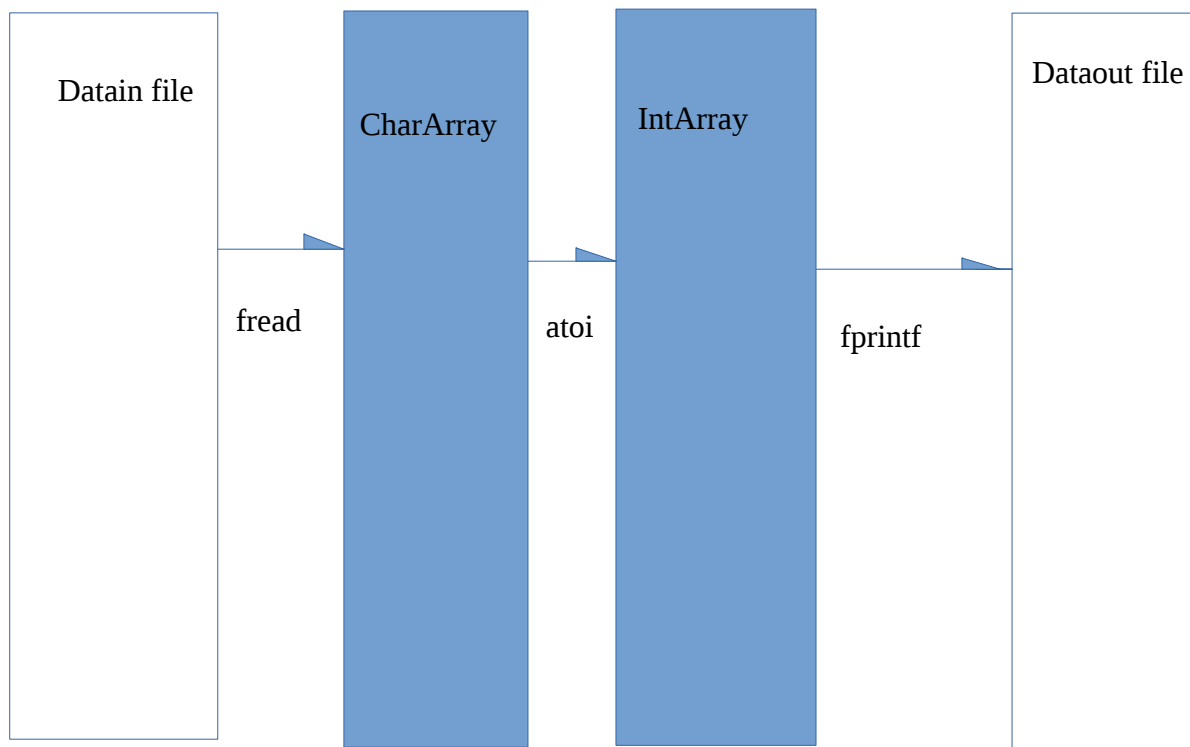
fprintf

int intarray[80];
char Chararray[80];

Screenshots :

Eg apply *3 func in the C code

```
            printf("intarray[%d]=%d\n",q,intarray[q]);
}

/*Apply *3 function to it*/
for(int v=0;v<10;v++){
        intarray[v]*=3;
}
```


Open ▾	main.c	×	datain	×	dataout	×	Save

```
5546000
4456000
1000000
3000000
5400000
0000000
1000000
2000000
8000000
9000000
```

Plain Text ▾   Tab Width: 8 ▾   Ln 1, Col 1   ▾   INS

Open ▼

Save

| main.c | × | datain | × | dataout | × |

```
16638
13368
3
9
162
0
3
6
24
27
```

Plain Text ▼   Tab Width: 8 ▼   Ln 10, Col 3   ▼   INS

Source code :
```
#include<stdio.h>
#include<stdlib.h>

int main(){

        FILE *fp;
        FILE *fp2;
        fp=fopen("datain","r");

        char Chararray[80];
        int intarray[80];

        fread(Chararray,80,8,fp);


        for(int i=0;i<10;i++){

                intarray[i]=atoi(&Chararray[8*i]);
        }


        /*Apply *3 function to it*/
        for(int v=0;v<10;v++){
                intarray[v]*=3;
        }
```

```c
        /*Prints the results in the 'dataout' file*/

        fclose(fp);
        fp2=fopen("dataout","w+");


        for(int l=0;l<10;l++){
                fprintf(fp2,"%d\n",intarray[l]);
        }

        fclose(fp2);



        return 0;


}
```