문제해결기법(13967005)

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Q1. Group Average From File (p.24)

```c
#define _CRT_SECURE_NO_WARNINGS// or scanf_s
#include <stdio.h>
#include <math.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <ctype.h>
#include <stdbool.h>
bool write_file(const char *fname,const char *str) {
        FILE* pFile;
        pFile = fopen(fname,"w");
        if (pFile == NULL) {
                printf("cannot open the file!\n");
                return false;
        }

        fprintf(pFile, "%s", str);
        fclose(pFile);
        return true;
}
bool read_file(const char* fname) {
        FILE* pFile;
        pFile = fopen(fname, "r");
        if (pFile == NULL) {
                printf("cannot open the file!\n");
                return false;
        }
        int i;
        int k;
        int num;
        double sum;
        int group_num = 1;
        while (fscanf(pFile, "%d", &i)==1) {
                sum = 0;
                if (i < 10) {
                        for (k = 0; k < i; k++) {
                                fscanf(pFile, "%d", &num);
                                sum += num;
                        }

                        printf("Group Number[%d] Average : %.2lf\n",
group_num,(double)(sum/(double)k));
                        group_num++;
                }

        }



        fclose(pFile);
        return true;
}
void main() {
        char fname[] = "data.txt";
        char str[] = "5 96 87 78 93 21 4 92 82 85 87 6 72 69 85 75 81 73";
        write_file(fname,str);
        read_file(fname);
}
```

Show output from: Build

```
Rebuild started...
1>------ Rebuild All started: Project: Project2, Configuration: Debug x64 ------
1>소스.c
1>Project2.vcxproj -> C:\Users\한웅재\source\repos\Project2\x64\Debug\Project2.exe
========== Rebuild All: 1 succeeded, 0 failed, 0 skipped ==========
```

Microsoft Visual Studio Debug Console

```
Group Number[1] Average : 75.00
Group Number[2] Average : 86.50
Group Number[3] Average : 75.83

C:\Users\한웅재\source\repos\Project2\x64\Debug\Project2.exe (process 24580) exited with code 0.
Press any key to close this window . . .
```

📁 Debug	2021-09-15 오전 9:42	파일 폴더	
📁 x64	2021-09-15 오전 10:12	파일 폴더	
data.txt	2021-10-31 오후 7:37	텍스트 문서	1KB
programming.c	2021-06-06 오전 1:44	C Source	1KB
Project2.vcxproj	2021-09-15 오전 10:13	VC++ Project	8KB
Project2.vcxproj.filters	2021-04-18 오전 1:47	VC++ Project Filte...	2KB
Project2.vcxproj.user	2021-03-24 오후 1:34	Per-User Project O...	1KB
소스.c	2021-10-31 오후 7:37	C Source	2KB

data.txt - Windows 메모장

파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)

```
5 96 87 78 93 21 4 92 82 85 87 6 72 69 85 75 81 73
```