期末模擬考 (Exercise)

- ▶ 不計分(期末考題庫)
- ▶ 13:00~15:00: 做完的同學,可舉手模擬驗收繳交
- ▶ 15:00~16:00: 問題討論 (for 模擬考 only)

- Please read Book I.txt
- (I) Fetch everyone's grade and calculate his/her total score and average.
- (2) Calculate class average and its mean-square deviation (i.e., standard deviation)
- (3) Get class rank and sort by student ranking.
- (4) Print on grade.txt

PS: Need to create a Book I.txt. =======>

```
Book1 - 記事本
B 95 80 99 80
```



Microsoft Visual Studio 偵錯主控台													
一人	姓有	分數1	分數2	分數3	分數4	總分	平均						
1	Ţ	92	95	99	84	370	92.50						
2	Ď	95	90	99	84	368	92.00						
2	G	95	92	99	80	366	91.50						
4	0	94	95	93	83	365	91.25						
5	R	90	93	99	80	362	90.50 89.25						
23456789	Q H	88	95	84	90	357							
6		93 95	83 80	99	80 80	355 354	88.75						
0	B E			99			88.50						
10	E N	93	93	80	85 82	351	87.75						
	n J	90	85	93	83	351	87.75						
11	F F	82 84	85 82	99 99	84	350 345	87.50 86.25						
12					80		85.50						
13 14	M P	90	65	95	92	342 340							
15	K	90 84	83 90	82 80	85 85		85.00 84.75						
		93	90 83	78		339							
16 17	I C	83		78 78	82	336	84.00						
18	Ţ	85	93 70	70 99	82 80	336 334	84.00 83.50						
19	Š	co 88	84	78	82	332	83.00						
20	A	70	85	78 78	82	315	78.75						
20	А	70	0.0	10	02	212	10.15						
区均	88	3.70 8	86.05	90.50	83.15								
方方		5.94	7.88	9.06	3.18								

☐ grade - 記事本												
檔案(F) 編輯(E) 格式(O) 檢視(V) 說明												
名文 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	名TDGORQHBENJFMPKICLSA	數1 92 95 95 96 97 98 98 98 99 90 84 93 88 70	分數2 95 95 92 95 93 80 83 85 85 83 83 84 85	分數3 99 99 99 99 84 99 99 95 82 80 78 78 78	分數4 84 80 83 80 80 80 80 85 83 84 80 92 85 82 82 82 82	總分 370 368 366 365 362 357 351 351 351 351 350 345 340 339 336 336 337 337	平均 92.50 92.00 91.50 91.25 90.50 89.25 88.75 87.75 87.75 87.75 87.75 84.75 84.00 84.00 83.50 83.50 83.50					
平均	88.	70 8	6.05	90.50	83.15							
均方差	5.9	94	7.88	9.06	3.18							

Design a program to make a calendar table, and print on Test.txt

```
Woid calendar(FILE* readPtr, int Day, int FirstDate)

{

for (size_t count = 0; count <= FirstDate - 1; count++)

{

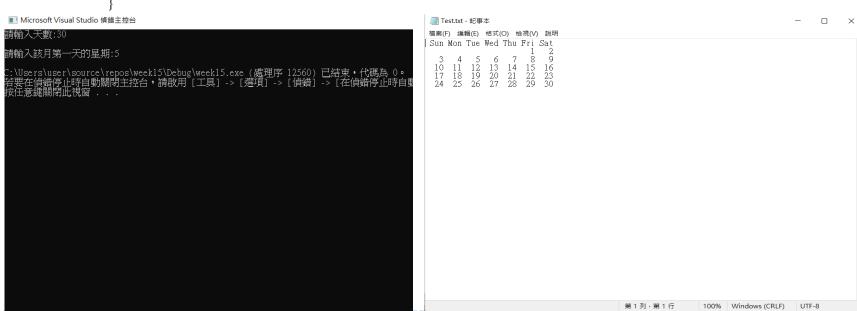
...
}
for (size_t count = 1; count <= Day; count++)

{

...
}

Microsoft Visual Studio 傾端主控台

| Testixt - 記事本
| 情報(F) 编辑(E) 格式(O) 检视(O) 說明
| Sun Mon Tue Wed Thu Fri Sat
```



Use the following framework, Design a function to exchange two "student" data.

Use the format:

```
struct student {
        long id;
        char Name[10];
        int subject1;
        int subject2;
        int subject3;
};

void swap(struct student *s1, struct student *s2);
void printscore(struct student *sn);

int main()
{
        struct student st1 = { 104310030,"學生1",60,70,80 };
        struct student st2 = { 104310047,"學生2",90,80,70 };
        ...
        return 0;
}
```

ult:

C:\Users\user\source\repos\week15\Debug\week15.exe

- ▶ Please calculate how many letters, spaces and newlines in the result of Exercise I (Book I.txt).
- Please save those 3 answers as a txt file (Result.txt).

Use the format:

```
struct Data {
          int Character = 0;
          int Newline = 0;
          int Space = 0;
}Data;
void textFile(FILE* readPtr);
```





Odd parity-check: If the count of bits with value "I" is even, the parity bit value is set to I
 → i.e., the added tail bit makes the total count of I's to "odd".

Plz enter a number (0~127) : 64

▶ Please enter a number from 0~127 and show the result down below.

(struct Check must be used)

Use the format:

```
struct Check {
        int odd;
        struct Check *next;
};
typedef struct Check *check;

int DisplayBits(check *sPtr, unsigned int value);
int isEmpty(check sPtr);
void insert(check *sPtr, int Value);
void printList(check currentPtr, int Value);
```

```
0 --> 1 --> 0 --> 0 --> 0 --> 0 --> 0 --> 0 --> NULL
0 --> 1 --> 0 --> 0 --> 0 --> 0 --> 0 --> 0 --> 0 --> NULL

C:\Users\Username\Desktop\2\Debug\2.exe (處理序 17788) 已結束,代碼為 0。
若要在債錯停止時自動關閉主控台,請啟用 [工具] -> [選項] -> [債錯] -> [在債錯停止時自動關閉主控台]。
按任意鍵關閉此視窗 . . .

Plz enter a number (0~127) : 65

0 --> 1 --> 0 --> 0 --> 0 --> 0 --> 1 --> NULL

0 --> 1 --> 0 --> 0 --> 0 --> 0 --> 1 --> NULL

C:\Users\Username\Desktop\2\Debug\2.exe (處理序 15432) 已結束,代碼為 0。
若要在債錯停止時自動關閉主控台,請啟用 [工具] -> [選項] -> [債錯] -> [在債錯停止時自動關閉主控台]。
按任意鍵關閉此視窗 . . .
```









