

Test case 1

```
=====
*                               Function                               *
=====
* 1. Read File & Calurate Grade                                     *
* 2. Statistic                                                       *
* 3. Count Grade                                                     *
* 4. Show Data                                                       *
* 5. Swap By Total                                                  *
* 6. Swap By Name                                                  *
* 7. Swap By ID                                                     *
* 8. Search By Score                                               *
* 9. Search By Geade                                              *
* 10. Search By Name                                              *
* 0. Exit program                                                  *
=====
Enter menu number = 1

Total read 53 records.

Press any key to menu . . .
```

Test case 2

ID	Name	MID	FINAL	ATTEN	TOTAL	GRADE	GPA
57070501001	KANYAKORN NATIPRAWAT	5.0	27.0	26.0	58.0	C	2.0
57070501003	KARIS MATCHAPARN	28.0	33.0	30.0	91.0	A	4.0
57070501004	NGAMPOL KLANBOOT	28.0	32.0	29.0	89.0	A	4.0
57070501006	CHAYAWUT EANGCHA-UM	10.0	7.0	10.0	27.0	F	0.0
57070501008	CHUTIPON WONGSIRIVIPAT	16.0	9.0	11.0	36.0	D	1.0
57070501009	YANISA HEMPRACHITTHAI	27.0	30.0	30.0	87.0	A	4.0
57070501010	THITIPHOOM CHIT-ARMARTH	30.0	39.0	30.0	99.0	A	4.0
57070501015	TITSANUWAN TARATORN	23.0	33.0	30.0	86.0	A	4.0
57070501019	BOONRIT BOONMARUEANG	24.0	32.0	30.0	86.0	A	4.0
57070501022	PAWIN TAECHOYOTIN	30.0	36.0	30.0	96.0	A	4.0
57070501023	PONGPON KHAMPAN	30.0	37.0	30.0	97.0	A	4.0
57070501024	PIYAPHON TRANGJIRASATHIAN	25.0	24.0	30.0	79.0	B+	3.5
57070501026	POONYAWAT WOOTTISART	29.0	28.0	30.0	87.0	A	4.0
57070501028	PONGTORN SIRIPRAPARWAN	29.0	25.0	30.0	84.0	A	4.0
57070501029	PRUEK PAKAMATAWEE	26.0	35.0	25.0	86.0	A	4.0
57070501032	PATTARANIT KEERATYIUTTAPAISAL	18.0	36.0	30.0	84.0	A	4.0
57070501033	PHATTHASUK PIBULKONGDATE	11.0	23.0	10.0	44.0	D+	1.5
57070501035	RATIMA DAMKHAM	23.0	34.0	30.0	87.0	A	4.0
57070501036	RAMITA LISAWATDIRATANAKUL	24.0	16.0	30.0	70.0	B	3.0
57070501037	RUTHAI CHANNIAM	10.0	27.0	29.0	66.0	C+	2.5
57070501038	WARAT KAMEEPORNPOJ	23.0	31.0	30.0	84.0	A	4.0
57070501039	WIROAT SAEHENG	25.0	25.0	30.0	80.0	B+	3.5
57070501040	WISARUT DUANGMORAKOT	28.0	31.0	30.0	89.0	A	4.0
57070501041	SAKAN KOMOLVATIN	24.0	31.0	30.0	85.0	A	4.0
57070501049	SUPANUTH ONGSUK	20.0	25.0	30.0	75.0	B	3.0
57070501050	SUPAWIT SOMSAKUL	22.0	22.0	30.0	74.0	B	3.0
57070501051	SIRATEE VORATHANTHONGDEE	20.0	22.0	28.0	70.0	B	3.0
57070501052	SIRAPOP WONGSTAPORNPAT	30.0	38.0	30.0	98.0	A	4.0
57070501053	SIRAPAT PHOLWA	6.0	26.0	27.0	59.0	C	2.0
57070501054	SIRAWIT BUTHARATTHAYA	30.0	37.0	30.0	97.0	A	4.0
57070501056	SIRIWAT LIMWATTANA	30.0	23.0	30.0	83.0	A	4.0
57070501057	ATHICOM FAPATHANCHAI	29.0	16.0	30.0	75.0	B	3.0
57070501058	APIWATKORN TENGIATTTRAKUL	3.0	9.0	10.0	22.0	F	0.0
57070501059	SHOTITOUCH TUANGCHAROENTIP	25.0	29.0	30.0	84.0	A	4.0
57070501061	TITAT KORBARIYACHIT	28.0	26.0	30.0	84.0	A	4.0
57070501062	NICHANAT POONSAWAT	2.0	14.0	10.0	26.0	F	0.0
57070501065	KRIT PRASARTAPORNIRICHOKHE	21.0	27.0	30.0	78.0	B+	3.5
57070501066	CHUTICHAI TUNITHAWATCHAIKUL	28.0	32.0	30.0	90.0	A	4.0
57070501067	NATTAPHONG TIWAWONG	24.0	26.0	30.0	80.0	B+	3.5
57070501068	THANAKIT SONGSIRISUK	30.0	35.0	30.0	95.0	A	4.0
57070501069	TANAPON PRADYANANTAKUL	21.0	27.0	23.0	71.0	B	3.0
57070501070	PORASET MOONDEE	23.0	19.0	30.0	72.0	B	3.0
57070501071	PIYAPON PONGSANTISUK	22.0	21.0	30.0	73.0	B	3.0
57070501072	PALLOP BUNNAK	18.0	18.0	14.0	50.0	C	2.0
57070501073	PHITSINEE SINCHAROENPONG	22.0	18.0	30.0	70.0	B	3.0
57070501074	PAKADOL KUMPEERA	21.0	21.0	25.0	67.0	C+	2.5
57070501075	RACHASAK RAGKAMNERD	29.0	31.0	30.0	90.0	A	4.0
57070501076	LALITA BOONSAN	14.0	31.0	30.0	75.0	B	3.0
57070501077	VIMUTTI ROATKANJANAPORN	27.0	35.0	30.0	92.0	A	4.0
57070501078	SATIT UDOMPANICH	25.0	21.0	30.0	76.0	B	3.0
57070501079	SUTTIWAT SONGBOONKAEW	27.0	17.0	29.0	73.0	B	3.0
57070501080	AREEYA JAIAREE	21.0	33.0	30.0	84.0	A	4.0
57070501081	INTOUCH SINPOONPAK	21.0	9.0	24.0	54.0	C	2.0

Test case 3

```

=====
*                               Function                               *
=====
*  1. Read File & Calurate Grade                                     *
*  2. Statistic                                                       *
*  3. Count Grade                                                     *
*  4. Show Data                                                       *
*  5. Swap By Total                                                  *
*  6. Swap By Name                                                  *
*  7. Swap By ID                                                     *
*  8. Search By Score                                                *
*  9. Search By Geade                                              *
* 10. Search By Name                                                *
*  0. Exit program                                                  *
=====
Enter menu number = 2

=====
| Score | Mid | Final | Atten | Total |
=====
| Min | 2.00 | 7.00 | 10.00 | 22.00 |
| Max | 30.00 | 39.00 | 30.00 | 99.00 |
| Mean | 22.36 | 26.21 | 27.17 | 75.74 |
| SD | 7.30 | 8.05 | 6.08 | 18.25 |
=====
GPA = 3.26

Press any key to menu . . .

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Test case 4

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=====
*                               Function                               *
=====
* 1. Read File & Calurate Grade                                     *
* 2. Statistic                                                       *
* 3. Count Grade                                                     *
* 4. Show Data                                                       *
* 5. Swap By Total                                                  *
* 6. Swap By Name                                                  *
* 7. Swap By ID                                                    *
* 8. Search By Score                                                *
* 9. Search By Geade                                                *
* 10. Search By Name                                                *
* 0. Exit program                                                  *
=====
Enter menu number = 3

=====
| GRADE | A | 104 |
| GRADE | B+ | 16 |
| GRADE | B | 48 |
| GRADE | C+ | 8 |
| GRADE | C | 16 |
| GRADE | D+ | 4 |
| GRADE | D | 4 |
| GRADE | F | 12 |
=====

Press any key to menu . . .
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Test case 5

ID	Name	MID	FINAL	ATTEN	TOTAL	GRADE	GPA
57070501010	THITIPHOOM CHIT-ARMARTH	30.0	39.0	30.0	99.0	A	4.0
57070501052	SIRAPOW WONGSTAPORNPAT	30.0	38.0	30.0	98.0	A	4.0
57070501023	PONGPON KHAMPAW	30.0	37.0	30.0	97.0	A	4.0
57070501054	SIRAWIT BUTMARATTHAYA	30.0	37.0	30.0	97.0	A	4.0
57070501022	PAWIN TAECHOYOTIN	30.0	36.0	30.0	96.0	A	4.0
57070501068	THANAKIT SONGSIRISUK	30.0	35.0	30.0	95.0	A	4.0
57070501077	VIMUTTI ROATKANJANAPORN	27.0	35.0	30.0	92.0	A	4.0
57070501003	KARIS MATCHAPARN	28.0	33.0	30.0	91.0	A	4.0
57070501075	RACHASAK RAGKAMNERD	29.0	31.0	30.0	90.0	A	4.0
57070501066	CHUTICHA TUNTITHAWATCHAIKUL	28.0	32.0	30.0	90.0	A	4.0
57070501004	NGAMPOL KLANBOOT	28.0	32.0	29.0	89.0	A	4.0
57070501040	WISARUT DUANGMORAKOT	28.0	31.0	30.0	89.0	A	4.0
57070501026	POONYAWAT WOOTTISART	29.0	28.0	30.0	87.0	A	4.0
57070501035	RATIMA DAMKHAM	23.0	34.0	30.0	87.0	A	4.0
57070501009	YANISA HEMPRACHITCHAI	27.0	30.0	30.0	87.0	A	4.0
57070501029	PRUEK PAKAMATAWEE	26.0	35.0	25.0	86.0	A	4.0
57070501019	BOONRIT BOONMARUENG	24.0	32.0	30.0	86.0	A	4.0
57070501015	TITSANUWAN TARATORN	23.0	33.0	30.0	86.0	A	4.0
57070501041	SAKAN KOMOLVATIN	24.0	31.0	30.0	85.0	A	4.0
57070501061	TITAT KORBARIYACHIT	28.0	26.0	30.0	84.0	A	4.0
57070501028	PONGTORN SIRIPRAPARWAN	29.0	25.0	30.0	84.0	A	4.0
57070501038	WARAT KAWEEPORNPOJ	23.0	31.0	30.0	84.0	A	4.0
57070501032	PATTARANIT KEERATIYUTTAPAISAL	18.0	36.0	30.0	84.0	A	4.0
57070501059	SHOTITOUCH TUANGCHAROENTIP	25.0	29.0	30.0	84.0	A	4.0
57070501080	AREEVA JAIAREE	21.0	33.0	30.0	84.0	A	4.0
57070501056	SIRIWAT LIMWATTANA	30.0	23.0	30.0	83.0	A	4.0
57070501039	WIROAT SAEHENG	25.0	25.0	30.0	80.0	B+	3.5
57070501067	NATTAPHONG TIWAWONG	24.0	26.0	30.0	80.0	B+	3.5
57070501024	PIYAPHON TRANGJIRASATHIAN	25.0	24.0	30.0	79.0	B+	3.5
57070501065	KRIT PRASARTPORNIRICHOK	21.0	27.0	30.0	78.0	B+	3.5
57070501078	SATIT UDOMPANICH	25.0	21.0	30.0	76.0	B	3.0
57070501057	ATHICOM FAPHATHANCHAI	29.0	16.0	30.0	75.0	B	3.0
57070501049	SUPANUTH ONGSUK	20.0	25.0	30.0	75.0	B	3.0
57070501076	LALITA BOONSAN	14.0	31.0	30.0	75.0	B	3.0
57070501050	SUPAWIT SOMSAKUL	22.0	22.0	30.0	74.0	B	3.0
57070501079	SUTTIWAT SONGBOONKAEW	27.0	17.0	29.0	73.0	B	3.0
57070501071	PIYAPON PONGSANTISUK	22.0	21.0	30.0	73.0	B	3.0
57070501070	PORASET MOONDEE	23.0	19.0	30.0	72.0	B	3.0
57070501069	TANAPON PRADYANANTAKUL	21.0	27.0	23.0	71.0	B	3.0
57070501051	SIRATEE VORATHAMTHONGDEE	20.0	22.0	28.0	70.0	B	3.0
57070501036	RAMITA LISAWATDIRATANAKUL	24.0	16.0	30.0	70.0	B	3.0
57070501073	PHITSINEE SINCHAROENPONG	22.0	18.0	30.0	70.0	B	3.0
57070501074	PAKADOL KUMPEERA	21.0	21.0	25.0	67.0	C+	2.5
57070501037	RUTHAI CHANNIAM	10.0	27.0	29.0	66.0	C+	2.5
57070501053	SIRAPAT PHOLWA	6.0	26.0	27.0	59.0	C	2.0
57070501001	KANYAKORN NATIPRAWAT	5.0	27.0	26.0	58.0	C	2.0
57070501081	INTOUCH SINPOONPAK	21.0	9.0	24.0	54.0	C	2.0
57070501072	PALLOP BUNNAK	18.0	18.0	14.0	50.0	C	2.0
57070501033	PHATTHASUK PIBULKONGDATE	11.0	23.0	10.0	44.0	D+	1.5
57070501008	CHUTIPON WONGSIRIVIPAT	16.0	9.0	11.0	36.0	D	1.0
57070501006	CHAYAWUT EANGCHA-UM	10.0	7.0	10.0	27.0	F	0.0
57070501062	NICHANAT POONSAWAT	2.0	14.0	10.0	26.0	F	0.0
57070501058	APIWATKORN TENGKIATTRAKUL	3.0	9.0	10.0	22.0	F	0.0

Press any key to menu . . .

Test case 6

ID	Name	MID	FINAL	ATTEN	TOTAL	GRADE	GPA
57070501001	KANYAKORN NATIPRAWAT	5.0	27.0	26.0	58.0	C	2.0
57070501003	KARIS MATCHAPARN	28.0	33.0	30.0	91.0	A	4.0
57070501004	NGAMPOL KLANBOOT	28.0	32.0	29.0	89.0	A	4.0
57070501006	CHAYAWUT EANGCHA-UM	10.0	7.0	10.0	27.0	F	0.0
57070501008	CHUTIPON WONGSIRIVIPAT	16.0	9.0	11.0	36.0	D	1.0
57070501009	YANISA HEMPRACHITCHAI	27.0	30.0	30.0	87.0	A	4.0
57070501010	THITIPHOOM CHIT-ARMARTH	30.0	39.0	30.0	99.0	A	4.0
57070501015	TITSANUWAN TARATORN	23.0	33.0	30.0	86.0	A	4.0
57070501019	BOONRIT BOONHARUENG	24.0	32.0	30.0	86.0	A	4.0
57070501022	PAWIN TAECHOYOTIN	30.0	36.0	30.0	96.0	A	4.0
57070501023	PONGPON KHAMPAN	30.0	37.0	30.0	97.0	A	4.0
57070501024	PIYAPHON TRANGJIRASATHIAN	25.0	24.0	30.0	79.0	B+	3.5
57070501026	POONYAWAT WOOTTISART	29.0	28.0	30.0	87.0	A	4.0
57070501028	PONGTORN SIRIPRAPARWAN	29.0	25.0	30.0	84.0	A	4.0
57070501029	PRUEK PAKAMATAWEE	26.0	35.0	25.0	86.0	A	4.0
57070501032	PATTARANIT KEERATYUTTAPAISAL	18.0	36.0	30.0	84.0	A	4.0
57070501033	PHATTHASUK PIBULKONGDATE	11.0	23.0	10.0	44.0	D+	1.5
57070501035	RATIMA DAMKHAM	23.0	34.0	30.0	87.0	A	4.0
57070501036	RAMITA LISAWATDIRATANAKUL	24.0	16.0	30.0	70.0	B	3.0
57070501037	RUTHAI CHANNIAM	10.0	27.0	29.0	66.0	C+	2.5
57070501038	WARAT KAWEEPORNPOJ	23.0	31.0	30.0	84.0	A	4.0
57070501039	WIROAT SAEHENG	25.0	25.0	30.0	80.0	B+	3.5
57070501040	WISARUT DUANGMORAKOT	28.0	31.0	30.0	89.0	A	4.0
57070501041	SAKAN KOMOLVATIN	24.0	31.0	30.0	85.0	A	4.0
57070501049	SUPANUTH ONGSUK	20.0	25.0	30.0	75.0	B	3.0
57070501050	SUPAWIT SOMSAKUL	22.0	22.0	30.0	74.0	B	3.0
57070501051	SIRATEE VORATHAMTHONGDEE	20.0	22.0	28.0	70.0	B	3.0
57070501052	SIRAPOW WONGSTAPORNPAT	30.0	38.0	30.0	98.0	A	4.0
57070501053	SIRAPAT PHOLWA	6.0	26.0	27.0	59.0	C	2.0
57070501054	SIRAWIT BUTMARATTHAYA	30.0	37.0	30.0	97.0	A	4.0
57070501056	SIRIWAT LIMWATTANA	30.0	23.0	30.0	83.0	A	4.0
57070501057	ATHICOM FAPHATHANCHAI	29.0	16.0	30.0	75.0	B	3.0
57070501058	APIWATKORN TENGKIATTRAKUL	3.0	9.0	10.0	22.0	F	0.0
57070501059	SHOTITOUCH TUANGCHAROENTIP	25.0	29.0	30.0	84.0	A	4.0
57070501061	TITAT KORBARIYACHIT	28.0	26.0	30.0	84.0	A	4.0
57070501062	NICHANAT POONSAWAT	2.0	14.0	10.0	26.0	F	0.0
57070501065	KRIT PRASARTPORNIRICHOK	21.0	27.0	30.0	78.0	B+	3.5
57070501066	CHUTICHA TUNTITHAWATCHAIKUL	28.0	32.0	30.0	90.0	A	4.0
57070501067	NATTAPHONG TIWAWONG	24.0	26.0	30.0	80.0	B+	3.5
57070501068	THANAKIT SONGSIRISUK	30.0	35.0	30.0	95.0	A	4.0
57070501069	TANAPON PRADYANANTAKUL	21.0	27.0	23.0	71.0	B	3.0
57070501070	PORASET MOONDEE	23.0	19.0	30.0	72.0	B	3.0
57070501071	PIYAPON PONGSANTISUK	22.0	21.0	30.0	73.0	B	3.0
57070501072	PALLOP BUNNAK	18.0	18.0	14.0	50.0	C	2.0
57070501073	PHITSINEE SINCHAROENPONG	22.0	18.0	30.0	70.0	B	3.0
57070501074	PAKADOL KUMPEERA	21.0	21.0	25.0	67.0	C+	2.5
57070501075	RACHASAK RAGKAMNERD	29.0	31.0	30.0	90.0	A	4.0
57070501076	LALITA BOONSAN	14.0	31.0	30.0	75.0	B	3.0
57070501077	VIMUTTI ROATKANJANAPORN	27.0	35.0	30.0	92.0	A	4.0
57070501078	SATIT UDOMPANICH	25.0	21.0	30.0	76.0	B	3.0
57070501079	SUTTIWAT SONGBOONKAEW	27.0	17.0	29.0	73.0	B	3.0
57070501080	AREEYA JAIAREE	21.0	33.0	30.0	84.0	A	4.0
57070501081	INTOUCH SINPOONPAK	21.0	9.0	24.0	54.0	C	2.0

Press any key to menu . . .

Test case 7

```

=====
*                               *
*               Function        *
*                               *
* 1. Read File & Calurate Grade *
* 2. Statistic                 *
* 3. Count Grade               *
* 4. Show Data                 *
* 5. Swap By Total             *
* 6. Swap By Name              *
* 7. Swap By ID                *
* 8. Search By Score           *
* 9. Search By Geade           *
* 10. Search By Name           *
* 0. Exit program              *
*                               *
=====
Enter menu number = 8
Enter Range of min score and max score
Enter Min : 80
Enter Max : 85

=====
| ID | Name | MID | FINAL | ATTEN | TOTAL | GRADE | GPA |
=====
| 57070501028 | PONGTORN SIRIPRAPARWAN | 29.0 | 25.0 | 30.0 | 84.0 | A | 4.0 |
| 57070501032 | PATTARANIT KEERATIYUTTAPASAL | 18.0 | 36.0 | 30.0 | 84.0 | A | 4.0 |
| 57070501038 | WARAT KAWEEPORNPOJ | 23.0 | 31.0 | 30.0 | 84.0 | A | 4.0 |
| 57070501039 | WIROAT SAEHENG | 25.0 | 25.0 | 30.0 | 80.0 | B+ | 3.5 |
| 57070501041 | SAKAN KOMOLVATIN | 24.0 | 31.0 | 30.0 | 85.0 | A | 4.0 |
| 57070501056 | SIRIWAT LIMWATTANA | 30.0 | 23.0 | 30.0 | 83.0 | A | 4.0 |
| 57070501059 | SHOTITOUCH TUANGCHAROENTIP | 25.0 | 29.0 | 30.0 | 84.0 | A | 4.0 |
| 57070501061 | TITAT KORBARIYACHIT | 28.0 | 26.0 | 30.0 | 84.0 | A | 4.0 |
| 57070501067 | NATTHAPHONG TIWAWONG | 24.0 | 26.0 | 30.0 | 80.0 | B+ | 3.5 |
| 57070501080 | AREEYA JAIAREE | 21.0 | 33.0 | 30.0 | 84.0 | A | 4.0 |
=====

Do you want(y) to search again ? :

```

Test case 8

```

Search Grade (A, B+, B, C+, C, D+, D, F (0 = Exit) a
=====
| ID | Name | MID | FINAL | ATTEN | TOTAL | GRADE | GPA |
=====
| 57070501003 | KARIS MATCHAPARN | 28.0 | 33.0 | 30.0 | 91.0 | A | 4.0 |
| 57070501004 | NGAMPOL KLANBOOT | 28.0 | 32.0 | 29.0 | 89.0 | A | 4.0 |
| 57070501009 | YANISA HEMPRACHITCHAI | 27.0 | 30.0 | 30.0 | 87.0 | A | 4.0 |
| 57070501010 | THITIPHOOM CHIT-ARMARTH | 30.0 | 30.0 | 30.0 | 90.0 | A | 4.0 |
| 57070501015 | TITSANUWAN TARATORN | 23.0 | 33.0 | 30.0 | 86.0 | A | 4.0 |
| 57070501019 | BOONRIT BOONMARUENG | 24.0 | 32.0 | 30.0 | 86.0 | A | 4.0 |
| 57070501022 | PAWIN TAECHOYOTIN | 30.0 | 36.0 | 30.0 | 96.0 | A | 4.0 |
| 57070501023 | PONGPON KHAMPAN | 30.0 | 37.0 | 30.0 | 97.0 | A | 4.0 |
| 57070501026 | POONYAWAT WOOTTISART | 29.0 | 28.0 | 30.0 | 87.0 | A | 4.0 |
| 57070501028 | PONGTORN SIRIPRAPARWAN | 29.0 | 25.0 | 30.0 | 84.0 | A | 4.0 |
| 57070501029 | PRUEK PAKAMATAWEE | 26.0 | 35.0 | 25.0 | 86.0 | A | 4.0 |
| 57070501032 | PATTARANIT KEERATIYUTTAPASAL | 18.0 | 36.0 | 30.0 | 84.0 | A | 4.0 |
| 57070501035 | RATIMA DAMKHAM | 23.0 | 34.0 | 30.0 | 87.0 | A | 4.0 |
| 57070501038 | WARAT KAWEEPORNPOJ | 23.0 | 31.0 | 30.0 | 84.0 | A | 4.0 |
| 57070501040 | WISARUT DUANGMORAKOT | 28.0 | 31.0 | 30.0 | 89.0 | A | 4.0 |
| 57070501041 | SAKAN KOMOLVATIN | 24.0 | 31.0 | 30.0 | 85.0 | A | 4.0 |
| 57070501052 | SIRAPOW WONGSTAPORNPAT | 30.0 | 38.0 | 30.0 | 98.0 | A | 4.0 |
| 57070501054 | SIRAWIT BUTMARATTHAYA | 30.0 | 37.0 | 30.0 | 97.0 | A | 4.0 |
| 57070501056 | SIRIWAT LIMWATTANA | 30.0 | 23.0 | 30.0 | 83.0 | A | 4.0 |
| 57070501059 | SHOTITOUCH TUANGCHAROENTIP | 25.0 | 29.0 | 30.0 | 84.0 | A | 4.0 |
| 57070501061 | TITAT KORBARIYACHIT | 28.0 | 26.0 | 30.0 | 84.0 | A | 4.0 |
| 57070501066 | CHUTICHAI TUNTITHAWATCHAIKUL | 28.0 | 32.0 | 30.0 | 90.0 | A | 4.0 |
| 57070501068 | THANAKIT SONGSIRISUK | 30.0 | 35.0 | 30.0 | 95.0 | A | 4.0 |
| 57070501075 | RACHASAK RAGKAMNERD | 29.0 | 31.0 | 30.0 | 90.0 | A | 4.0 |
| 57070501077 | VIMUTTI ROATKANJANAPORN | 27.0 | 35.0 | 30.0 | 92.0 | A | 4.0 |
| 57070501080 | AREEYA JAIAREE | 21.0 | 33.0 | 30.0 | 84.0 | A | 4.0 |
=====

Search Grade (A, B+, B, C+, C, D+, D, F (0 = Exit) b+
=====
| ID | Name | MID | FINAL | ATTEN | TOTAL | GRADE | GPA |
=====
| 57070501024 | PIYAPHON TRANGJIRASATHIAN | 25.0 | 24.0 | 30.0 | 79.0 | B+ | 3.5 |
| 57070501039 | WIROAT SAEHENG | 25.0 | 25.0 | 30.0 | 80.0 | B+ | 3.5 |
| 57070501065 | KRIT PRASARTPORNIRICHOKHE | 21.0 | 27.0 | 30.0 | 78.0 | B+ | 3.5 |
| 57070501067 | NATTHAPHONG TIWAWONG | 24.0 | 26.0 | 30.0 | 80.0 | B+ | 3.5 |
=====

Search Grade (A, B+, B, C+, C, D+, D, F (0 = Exit) _

```

Test case 4

```
*          Function          *
=====
*  1. Read File & Calurate Grade  *
*  2. Statistic                  *
*  3. Count Grade                *
*  4. Show Data                  *
*  5. Swap By Total              *
*  6. Swap By Name               *
*  7. Swap By ID                 *
*  8. Search By Score            *
*  9. Search By Geade            *
* 10. Search By Name             *
*  0. Exit program               *
=====
Enter menu number = 10

Enter Search key (0 = Exit) : pon

=====
| ID | Name | MID | FINAL | ATTN | TOTAL | GRADE | GPA |
=====
| 57070501008 | CHUTIPON WONGSIRIVIPAT | 16.0 | 9.0 | 11.0 | 36.0 | D | 1.0 |
| 57070501023 | PONGPON KHAMPAK | 30.0 | 37.0 | 30.0 | 97.0 | A | 4.0 |
| 57070501028 | PONGTORN SIRIPRAPARWAN | 29.0 | 25.0 | 30.0 | 84.0 | A | 4.0 |
| 57070501069 | TANAPON PRADYANANTAKUL | 21.0 | 27.0 | 23.0 | 71.0 | B | 3.0 |
| 57070501071 | PIYAPON PONGSANTISUK | 22.0 | 21.0 | 30.0 | 73.0 | B | 3.0 |
| 57070501073 | PHITSINEE SINCHAROENPONG | 22.0 | 18.0 | 30.0 | 70.0 | B | 3.0 |
=====
Enter Search key (0 = Exit) : 0_
```

ผลการประเมินตนเอง : 4