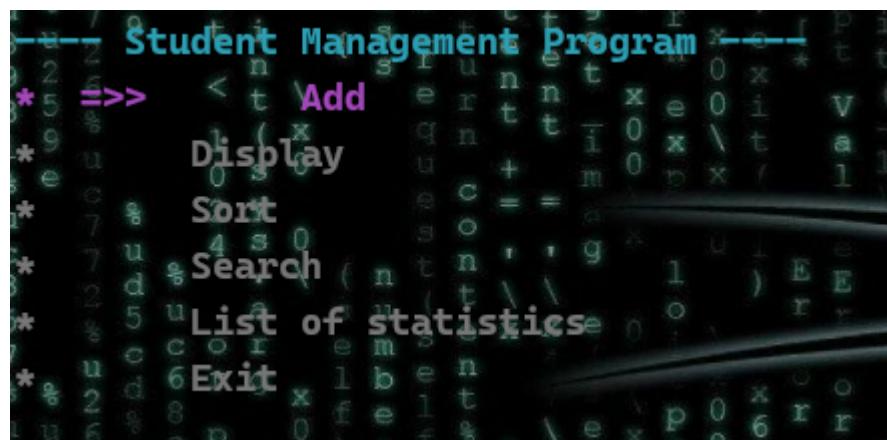


# BÁO CÁO BÀI TẬP - PHAN THANH TÙNG - BDATTT58



## CHỨC NĂNG THÊM



mã sinh viên phải đủ 8 chữ số



năm sinh phải hợp lệ

```

day :34
error
0 < month < 31
1
month :44
error
0 < month < 12
3
year :333
error
1999 < month < 2024

```

## CHỨC NĂNG DISPLAY

theo id class

```

id class isbdaattt
<n
|STT |NAME |ID_CCLASS |ID_STUDENT |AVERAGE_SCORE |DAY
1 |Phan Thanh tungx |bdattt |1000ABCA |5.6 |15/6/2005
2 |tung a |bdattt |12121212 |5.6 |19/5/2005
3 |duy duy |bdattt |11111111 |5.6 |16/10/2013
4 |nguyen vu thao |bdattt |10045678 |5.6 |15/3/2005
5 |tran phu |bdattt |11100678 |7 |26/9/2005
6 |tran hai nam |bdattt |AA344678 |5.6 |24/8/2005
7 |hoang anh vu |bdattt |BB345678 |5.6 |30/1/2005
8 |tran trong nam |bdattt |CC345678 |5.6 |9/5/2005
9 |hoang anh nam |bdattt |12345678 |3.5 |8/3/2005
Enter to return

```

theo điểm số

```

Enter Average score: 8
id class isbdaattt
<n
|STT |NAME |ID_CCLASS |ID_STUDENT |AVERAGE_SCORE |DAY
1 |tran van a |anhtt |11111115 |8 |18/4/2003
2 |huynh buu khang |anhtt |11111115 |8 |18/4/2003
Enter to return

```

## CHỨC NĂNG SORT

---- Algorithm selection ----

- \* => sort by average score
- \* sort by name
- \* sort by Id\_class
- \* sort by date
- \* sort by Id\_Student

sort theo điểm tăng dần

- \* => bubble sort
- \* selection sort
- \* merge sort

| Day                   |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Nguyen vu thao        |
| Hoang anh vu          |
| Tran trung nam        |
| Tran ngon bich        |
| Do anh tai            |
| Lo thi anh            |
| Bui hai lo            |
| Vo ta tho             |
| Nguyen thi vinh       |
| Nguyen trinh bao long |
| Le quang truong anh   |
| Da vu thinh           |
| Phan van hieu         |
| Tran phu              |
| Nguyen tieu long      |
| Phan thanh tung       |
| Tran minh thuan       |
| Nguyen ba tuoc        |
| Tran van a            |
| Huynh buu khang       |
| Mai vu nguyet anh     |
| Le huynhduc           |
| Truong khanh linh     |
| Pham hoang quan       |
| Pham thi tuyet        |
| Tran hai nam          |
| Phung quoc binh       |
| Hoang thi khanh linh  |
| Le trung thuong       |
| Do san san            |

Sort after : 211411 microseconds

enter to return

DATA

DATA

## Sort theo name

123	hoang anh nam	bdattt	e 12345678	3.5	8/3/2005
124	tran hai nam	bdattt	V AA344678	5.6	24/8/2005
125	tran trong nam	bdattt	CC345678	4.2	9/5/2005
126	luong thi ngan	anhhtt	11111123	5.6	16/4/2002
127	bao ngoc	anhhtt	12345678	8.5	12/6/2005
128	tran phu	bdattt	11100678	14	26/9/2005
129	pham hoang quan	anhhtt	11111121	9.5	10/4/2004
130	vuong quoc quan	anhhtt	11111117	5.6	25/4/2004
131	do san san	anhhtt	11111122	15.3	5/12/2005
132	goanh tai	tlpk	1000000A	16.5	15/3/2005
133	nguyen vunthao	bdattt	10045678	17.4	12/4/2000
134	dau vu thinh	anhhtt	11111119	17.4	8/4/2005
135	yo ta tho	anhhtt	11111113	5.3	1/5/2002
136	tran minhthuan	anhhtt	11111138	5.2	23/4/2003
137	le trung thuong	anhhtt	11111140	5.6	5/6/2005
138	nguyen anh tin	anhhtt	11111130	7.3	25/4/2004
139	luu kim toan	anhhtt	11111124	15.3	13/4/2003
140	phan Thanh tung	bdattt	1000ABC	19.4	9/4/2001
141	phan thanh tung	anhhtt	11111132	16.2	18/4/2003
142	phan thanh tung	anhhtt	11111133	5.5	11/4/2002
143	nguyen ba tubog	anhhtt	11111120	15.6	30/1/2005
144	pham thi tuyens	anhhtt	11111116	7.3	25/4/2004
145	nguyen thi vinh	anhhtt	11111125	17.4	25/4/2004
146	hoang anh vu	anhhtt	11111118	17.4	13/4/2003
147	hoang anh vu	bdattt	BB345678	5.6	9/4/2001

Sort finished in: 187179 microseconds.

Press Enter to return

DATA

DATA

## Sort theo id\_class

student in class :bdattt					
STT	NAME	ID_CLASS	ID_STUDENT	AVERAGE_SCORE	DAY
1	Phan Thanh tung	bdattt	1000ABC	5.6	5/6/2005
2	tung a	bdattt	12121212	5.6	9/5/2005
3	duy duy	bdattt	11111111	5.6	16/10/2013
4	nguyen vu thao	bdattt	10045678	5.6	15/3/2005
5	tran phua	bdattt	11100678	7	26/9/2005
6	tran hainam	bdattt	AA344678	9	24/8/2005
7	hoanganh vu	bdattt	BB345678	5.6	30/1/2005
8	tran trong nam	bdattt	CE345678	5.6	9/5/2005
9	hoang anh nam	bdattt	12345678	3.5	8/3/2005
student in class :anhhtt123					
STT	NAME	ID_CLASS	ID_STUDENT	AVERAGE_SCORE	DAY
1	bao ngoc	anhhtt123	12345678	5.6	12/6/2005
student in class :tlpk					
STT	NAME	ID_CLASS	ID_STUDENT	AVERAGE_SCORE	DAY
1	tran ngon bich	tlpk	10000000	5.6	15/10/2005
2	do anh tai	tlpk	1000000A	5.6	5/12/2005
3	lo thi anh	tlpk	12345678	5.6	4/4/2005
4	bui hai lo	tlpk	1000112P	5.6	7/9/2005
5	tran dan	tlpk	12345678	4.6	23/3/2014

## Sort theo date tăng dần

STT	NAME	ID_CLASS	ID_STUDENT	AVERAGE SCORE	DAY
1	tran ngon bich	tlpk	10000000	5.6	15/10/2005
2	do anh tai	tlpk	10000000A	5.6	5/12/2005
3	bui hai lo	tlpk	1000112P	5.6	7/9/2005
4	Phan Thanh tung	bdatt	1000ABCA	5.6	15/6/2005
5	nguyen yu thao	bdatt	10045678	5.6	15/3/2005
6	tran phu	bdatt	11100678	7	26/9/2005
7	tran ngon bich	tlpk	10000000	5.6	15/10/2005
8	do anh tai	tlpk	1000000A	5.6	5/12/2005
9	duy duy	bdatt	11111111	5.6	16/10/2013
10	chau thi hoang my	anhtt	11111112	5	5/4/2005
11	vo ta tho	anhtt	11111113	6	6/4/2005
12	phan van hieu	anhtt	11111114	7	7/4/2005
13	tran van a	anhtt	11111115	8	8/4/2003
14	huynh bieu khang	anhtt	11111115	8	8/4/2003
15	pham thi tuyen	anhtt	11111116	9	9/4/2001
16	vuong quoc quan	anhtt	11111117	4	10/4/2004
17	hoang anh vur	anhtt	11111118	5.5	11/4/2002
18	dau vu thinh	anhtt	11111119	6.5	12/4/2000
19	nguyen ba tuoc	anhtt	11111120	7.5	13/4/2003
20	pham hoang quan	anhtt	11111121	8.5	14/4/2001
21	do san san	anhtt	11111122	9.5	15/4/2004
22	luong thi ngan	anhtt	11111123	4.2	16/4/2002
23	luu kim toane	anhtt	11111124	5.2	17/4/2000
24	nguyen thi vinh	anhtt	11111125	6.2	18/4/2003
25	nguyen tien long	anhtt	11111126	7.2	19/4/2001
26	mai vu nguyet anh	anhtt	11111127	8.2	20/4/2004
27	phung quoc binh	anhtt	11111128	9.2	21/4/2002
28	le thi mai	anhtt	11111129	4.3	22/4/2000
29	nguyen anh tin	anhtt	11111130	5.3	23/4/2003

Sort theo id student tăng dần

STT	NAME	ID_CLASS	ID_STUDENT	AVERAGE SCORE	DAY
1	tran ngon bich	tlpk	10000000	5.6	15/10/2005
2	do anh tai	tlpk	10000000A	5.6	5/12/2005
3	bui hai lo	tlpk	1000112P	5.6	7/9/2005
4	Phan Thanh tung	bdatt	1000ABCA	5.6	15/6/2005
5	nguyen yu thao	bdatt	10045678	5.6	15/3/2005
6	tran phu	bdatt	11100678	7	26/9/2005
7	tran ngon bich	tlpk	10000000	5.6	15/10/2005
8	do anh tai	tlpk	1000000A	5.6	5/12/2005
9	duy duy	bdatt	11111111	5.6	16/10/2013
10	chau thi hoang my	anhtt	11111112	5	5/4/2005
11	vo ta tho	anhtt	11111113	6	6/4/2005
12	phan van hieu	anhtt	11111114	7	7/4/2005
13	tran van a	anhtt	11111115	8	8/4/2003
14	huynh bieu khang	anhtt	11111115	8	8/4/2003
15	pham thi tuyen	anhtt	11111116	9	9/4/2001
16	vuong quoc quan	anhtt	11111117	4	10/4/2004
17	hoang anh vur	anhtt	11111118	5.5	11/4/2002
18	dau vu thinh	anhtt	11111119	6.5	12/4/2000
19	nguyen ba tuoc	anhtt	11111120	7.5	13/4/2003
20	pham hoang quan	anhtt	11111121	8.5	14/4/2001
21	do san san	anhtt	11111122	9.5	15/4/2004
22	luong thi ngan	anhtt	11111123	4.2	16/4/2002
23	luu kim toane	anhtt	11111124	5.2	17/4/2000
24	nguyen thi vinh	anhtt	11111125	6.2	18/4/2003
25	nguyen tien long	anhtt	11111126	7.2	19/4/2001
26	mai vu nguyet anh	anhtt	11111127	8.2	20/4/2004
27	phung quoc binh	anhtt	11111128	9.2	21/4/2002
28	le thi mai	anhtt	11111129	4.3	22/4/2000
29	nguyen anh tin	anhtt	11111130	5.3	23/4/2003

## CHỨC NĂNG Search

```

DATA
=====SEARCH DATA=====
===== DATA SEARCH =====
1 to search name
2 to search class
3 to search score
4 to New Session Search
5 to exit
Enter your option: 1

```

tìm theo tên

```

Nhập tên: tung
=====
|STT |NAME|ID_CLASS|ID_STUDENT|AVERAGE_SCORE|DAY|
|1|phan thành tung|anhttt|11111333|5|25/4/2004
|2|phan thành tung|anhttt|11111332|7.3|25/4/2004
|3|Phan Thành tung|bdattt|1000ABCA|5.6|15/6/2005
===== DATA SEARCH =====
1 to search name
2 to search class
3 to search score
4 to New Session Search
5 to exit
Enter your option: 1

```

tìm theo class nếu muốn tiếp tục lọc thông tin

```

Nhập Id class: anhttt
=====
|STT |NAME|ID_CLASS|ID_STUDENT|AVERAGE_SCORE|DAY|
|1|phan thành tung|anhttt|11111332|7.3|25/4/2004
|2|phan thành tung|anhttt|11111333|5|25/4/2004
===== DATA SEARCH =====

```

tìm theo điểm nếu muốn tiếp tục lọc thông tin

```

Nhập Score From : 4
Nhập Score to : 7
=====
|STT |NAME|ID_CLASS|ID_STUDENT|AVERAGE_SCORE|DAY|
|1|phan thành tung|anhttt|11111333|5|25/4/2004
===== DATA SEARCH =====

```

CHỨC NĂNG Thống kê

```

8--- Student Management Program ---
9 * >>> statistics by class
10 * statistics by score
11 * statistics by chart score
12

```

Thống kê theo lớp

id_class	number of Students
anhttt	32
bdattt	9
anhttt123	1
tlpk	5
<b>Total</b>	<b>47</b>

Thống kê theo điểm

id_class	Gioi	Kha	Trung binh	%	Yeu	%
anhttt	9	10	24	27	11	29
bdattt	1	0	11	0	7	77
anhttt123	0	0	0	0	1	11
tlpk	4	11	9	26	10	29
					11	32

Thống kê theo bảng

