HOMEWORK 06 GET STRONGER.

GOAL 01 (30PT)

- Write a program that uses a for statement to print a table of ASCII values for the characters in the ASCII character set from the range which user input.
- The program should print the decimal value, octal value, hexadecimal value and character value for each character.
- The maximum range is from 0 to 126 in the decimal number.
- Hint: try to use showbase.

EXAMPLE 01

Please input 33 59	the r	ange	
Decimal Oc	tal	Hexadecimal	Character
33	041	0x21	
34	042	0x22	11.
35	043	0x23	# \$ %
36	044	0x24	\$
37	045	0x25	%
38	046	0x26	&
39	047	0x27	Į.
40	050	0x28	(
41	051	0x29)
42	052	0x2a	*
43	053	0x2b	+
44	054	0x2c	32
45	055	0x2d	75
46	056	0x2e	
47	057	0x2f	/
48	060	0x30	0
49	061	0x31	1
50	062	0x32	2
51	063	0x33	3
52 53	064	0x34	0 1 2 3 4 5
53	065	0x35	5
54	066	0x36	6
55 55	067	0x37	
56	ŏ70	0x38	7 8
57	Ŏ7Ĭ	0x39	ğ
5.8 5.8	072	0x3a	·
59	Ŏ73	0x3b	

GOAL 02 (30PT)

- 1. Write a program that uses class templates.
- 2. It has the functions of sorting, inverting, searching and summing array elements
- 3. Then generate three template classes whose type arguments are int type, double type, and float type.
- P.S. You must use class templates.

EXAMPLE 02

请输入元素個數: 清输入int型數組元素 Array構造函数: int 型數組: 9876 入要查找的元素: 20 未找到該元素 數組和為:40

请输入元素個數: 青输入int型數組元素 Array構造函数: 10 9 8 7 6 9876 入要查找的元素: 8 始和為:40

请输入元素個數: 2-2-2 请输入int型數組元素 10-8 请输入double型數組元素 1.55-3.78 请输入float型數組元素 4.5-6.8

GOAL 03 (40PT)

- Given a string array, combine letter dyslexia together.
- letter dyslexia words refer to strings with the same letters but different arrangements.
- There may be stars, triangles, and diamonds inside.
- And it will be further divided into solid or hollow.
- You have to find out, and then use * to draw the figure according to the vocabulary and the solid or hollow.

EXAMPLE 03 (01)

```
Input:
eat, tea, diamond, ate, monddia, solid
Output:
ate,eat,tea
diamond,monddia
solid
Graph:-diamond-solid
```

EXAMPLE 03 (02)

```
tars, asrt, arst, tras
bgi, big, ibg
hoowll, howoll
 Graph:-star-hollow
Process returned 0 (0x0) execution time: 0.050 s
Press any key to continue.
```

SUBMIT YOUR HOMEWORK

- Please make sure again that your code is ready to be compiled.
 - If it can't be compiled, it will not be corrected this time (0 points)
 - TA will try to inform you and ask you to make up for it.
 - After uploading, you still need to complete the DEMO within the specified time.
- Please use s1234567.GOAL1 s1234567. GOAL2 and s1234567. GOAL3
 - as your file names
 - Replace s1234567 by your own student ID.
 - Pack all the file into a folder named "s1234567_hw6".
 - Zip it and Upload to Portal.
 - Attach a s1234567_hw6.txt if u want to add some additional information to TA.

Warning: 10 points will be deducted if one of them is violated.

FIGHTING~~~

