

Assignment 1 for Shan Cao

This program will print different shape with different based on your selection.

The GitHub link:

[caoshan278251191/cs3520-Fall-2022 \(northeastern.edu\)](https://github.com/caoshan278251191/cs3520-Fall-2022)

1. Running program from MAC

a. Print 3 shapes in with +

```
cs3520-Fall-2022 git:(main) x whoami
shancao
cs3520-Fall-2022 git:(main) x ./hw1
This is a program could print
an up-wise Right triangle,
a down-wise triangle,
a rectangle.

Please provide:
number of rows you expected,
the shape you want,
and the symble you prefer
-----

Press a key to continue...
Please input the number of rows you expect:
5
Please provide what shape you prefer, input 1 for +, input 2 for *, input 3 for $.
1
-----
up-wise triangle
++++
+++
++
+
-----
down-wise triangle
+
++
+++
++++
-----
rectangle
++++
++++
++++
++++
cs3520-Fall-2022 git:(main) x
```

b. Print 3 shapes in with *

```
++++
cs3520-Fall-2022 git:(main) x ./hw1
This is a program could print
an up-wise Right triangle,
a down-wise triangle,
a rectangle.

Please provide:
number of rows you expected,
the shape you want,
and the symble you prefer
-----

Press a key to continue...
Please input the number of rows you expect:
4
Please provide what shape you prefer, input 1 for +, input 2 for *, input 3 for $.
2
-----
up-wise triangle
****
***
**
*
-----
down-wise triangle
*
***
-----
rectangle
****
****
****
cs3520-Fall-2022 git:(main) x
```

Assignment 1 for Shan Cao

c. Print 3 shapes in with \$

```
+ cs3520-Fall-2022 git:(main) x ./hw1
This is a program could print
an up-wise Right triangle,
a down-wise triangle,
a rectangle.

Please provide:
number of rows you expected,
the shape you want,
and the symble you prefer
-----

Press a key to continue...
Please input the number of rows you expect:
3
Please prvide what shape you prefer, input 1 for +, input 2 for *, input 3 for $.
3
-----
up-wise triangle
$$$
$$
$
-----
down-wise triangle
$
$$
-----
rectangle
$$$
$$$
$$$
+ cs3520-Fall-2022 git:(main) x
```

Assignment 1 for Shan Cao

Run this code on the Khoury machine:

- Print 3 shapes in with +

```
cs3520-Fall-2022 — ssh caoshan278251191@login.khoury.northeastern.edu — ssh caoshan278251191@login.khoury.northeastern.edu — 134x68
vim
caoshan278251191@login.khoury.northeastern.edu

-bash-4.2$ ls
hw1.cpp  Makefile  README.md
-bash-4.2$ make
g++ -c -o hw1.o hw1.cpp -I../include -g -O0 -std=c++11
g++ -o hw1 hw1.o -I../include -g -O0 -std=c++11 -lncurses
-bash-4.2$ ./hw1
This is a program could print
an up-wise Right triangle,
a down-wise triangle,
a rectangle.

Please provide:
number of rows you expected,
the shape you want,
and the symble you prefer
-----

Press a key to continue...
Please input the number of rows you expect:
4
Please provide what shape you prefer, input 1 for +, input 2 for *, input 3 for $.
1
-----
up-wise triangle
+++
+++
++
+
-----
down-wise triangle
+
++
+++
-----
rectangle
++++
++++
++++
++++
-bash-4.2$
```

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b. Print 3 shapes in with \$

```
-bash-4.2$ ./hw1
This is a program could print
an up-wise Right triangle,
a down-wise triangle,
a rectangle.

Please provide:
number of rows you expected,
the shape you want,
and the symble you prefer
-----

Press a key to continue...
Please input the number of rows you expect:
6
Please provide what shape you prefer, input 1 for +, input 2 for *, input 3 for $.
3
-----
up-wise triangle
$$$$$
$$$$$
$$$$$
$$$
$$
$
-----
down-wise triangle
$
$$
$$$
$$$$
$$$$$
-----
rectangle
$$$$$
$$$$$
$$$$$
$$$$$
$$$$$
$$$$$
$$$$$
-bash-4.2$
```

Assignment 1 for Shan Cao

a. Print 3 shapes in with \$

```
#####
-bash-4.2$ ./hw1
This is a program could print
an up-wise Right triangle,
a down-wise triangle,
a rectangle.

Please provide:
number of rows you expected,
the shape you want,
and the symble you prefer
-----

Press a key to continue...
Please input the number of rows you expect:
4
Please provide what shape you prefer, input 1 for +, input 2 for *, input 3 for $.
2
-----
up-wise triangle
****
***
**
*
-----
down-wise triangle
*
**
***
-----
rectangle
****
****
****
****
-bash-4.2$
```