HW6 Report:

Square:



```
alvinvn@andromeda-36 00:58:03 ~/hw/hw6
$ g++ -std=c++11 main.cpp -o main
alvinvn@andromeda-36 00:58:08 ~/hw/hw6
$ main
FirstSquare
.....
....
....
SecondSquare
.....
.....
```

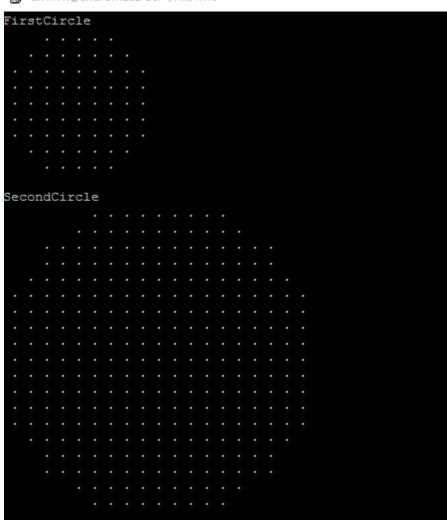
Rectangle:

alvinvn@andromeda-36:~/hw/hw6

```
FirstRectangle
.......
SecondRectangle
....
....
```

Circle:





Triangle:

```
alvinvn@andromeda-36:~/hw/hw6

FirstTriangle
...
...
SecondTriangle
...
...
```

Area:



VALGRIND:



```
alvinvn@sterling-malory-archer 01:03:36 ~/hw/hw6
$ valgrind main
==23574== Memcheck, a memory error detector
==23574== Copyright (C) 2002-2013, and GNU GPL'd, by Julian Seward et al.
==23574== Using Valgrind-3.10.0 and LibVEX; rerun with -h for copyright info
==23574== Command: main
==23574==
==23574== Conditional jump or move depends on uninitialised value(s)
==23574== at 0x4F4D51F: capacity (basic_string.h:781)
==23574== by 0x4F4D51F: std::_cxx11::basic_string<char, std::char_traits<cha
r>, std::allocator<char> >:: M assign(std:: cxx11::basic string<char, std::char
traits<char>, std::allocator<char> > const&) (basic string.tcc:264)
=23574== by 0x4F4D868: assign (basic string.h:1095)
==23574==
            by 0x4F4D868: std::_cxx11::basic_string<char, std::char_traits<cha
r>, std::allocator<char> >::operator=(std::_cxx11::basic_string<char, std::char
traits<char>, std::allocator<char> > const&) (basic string.h:551)
=23574== by 0x401D93: Triangle::Triangle(int, int, std:: cxx11::basic strin
g<char, std::char_traits<char>, std::allocator<char> >, double, double) (in /hom
e/alvinvn/hw/hw6/main)
           by 0x4010AC: main (in /home/alvinvn/hw/hw6/main)
 =23574==
==23574==
==23574== Conditional jump or move depends on uninitialised value(s)
==23574== at 0x4F4D535: std:: cxx11::basic string<char, std::char_traits<cha
r>, std::allocator<char> >::_M_assign(std::__cxx11::basic_string<char, std::char
```

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