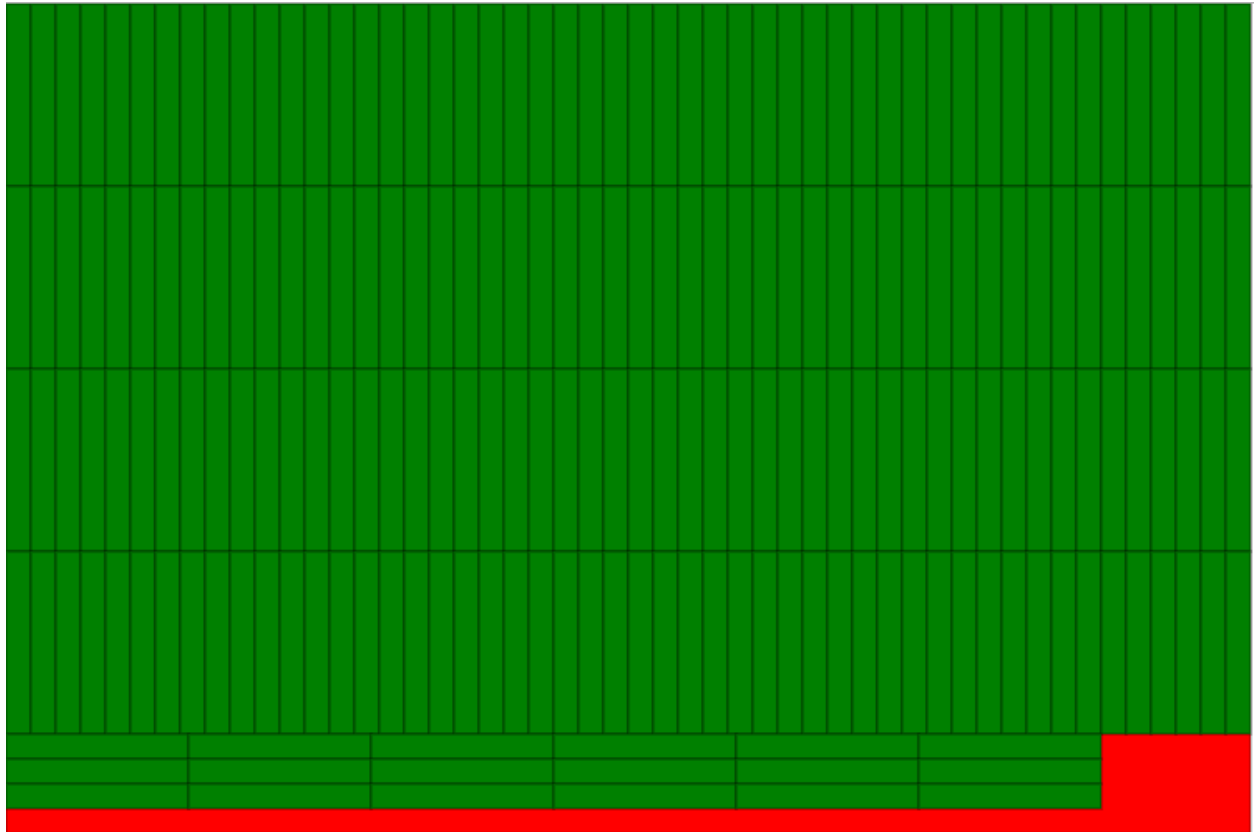
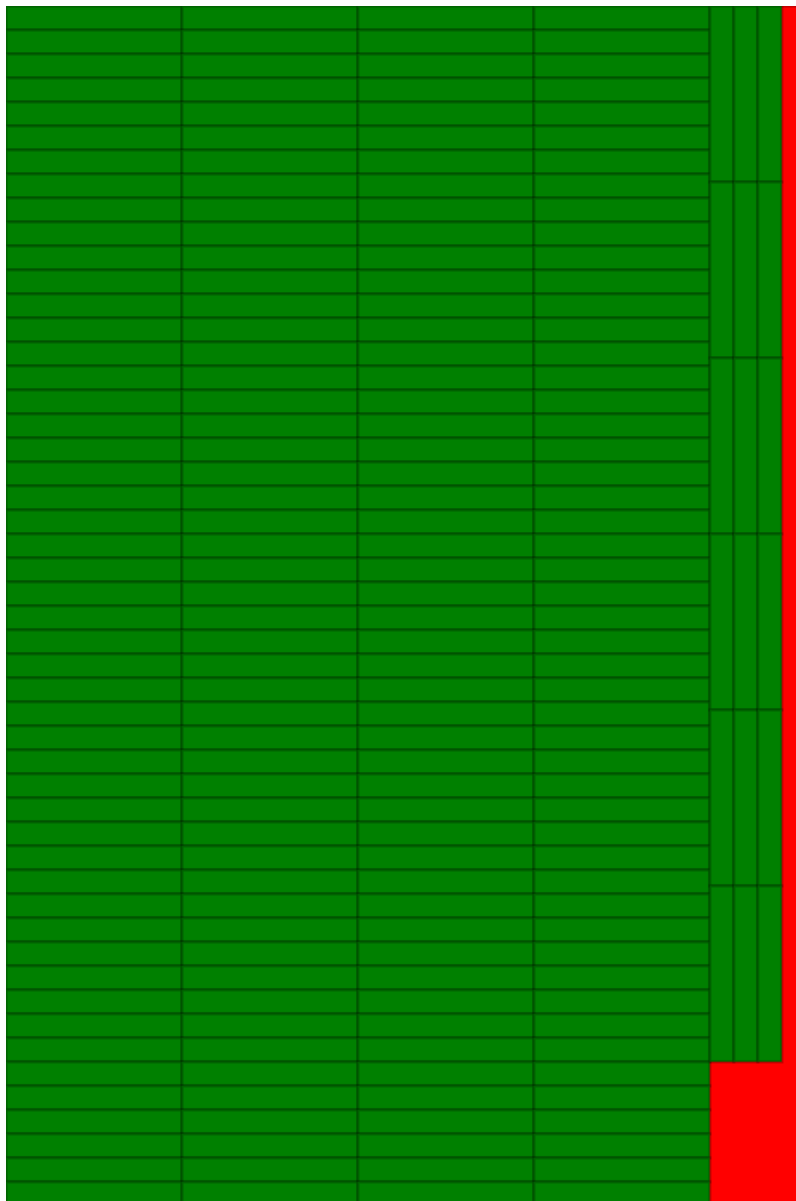


```
user@PITHBLOOD:/mnt/c/users/muham/desktop/cpp/homework1$ ./1
Please enter the main container shape (R, C, T)
R
Please enter the width
750
Please enter the height
500
Please enter the small shape (R, C, T)
R
Please enter the width
110
Please enter the height
15
I can fit at most 218 small shapes into the main container. The empty area (red) in container is 15300
```



[Output1.svg](#)

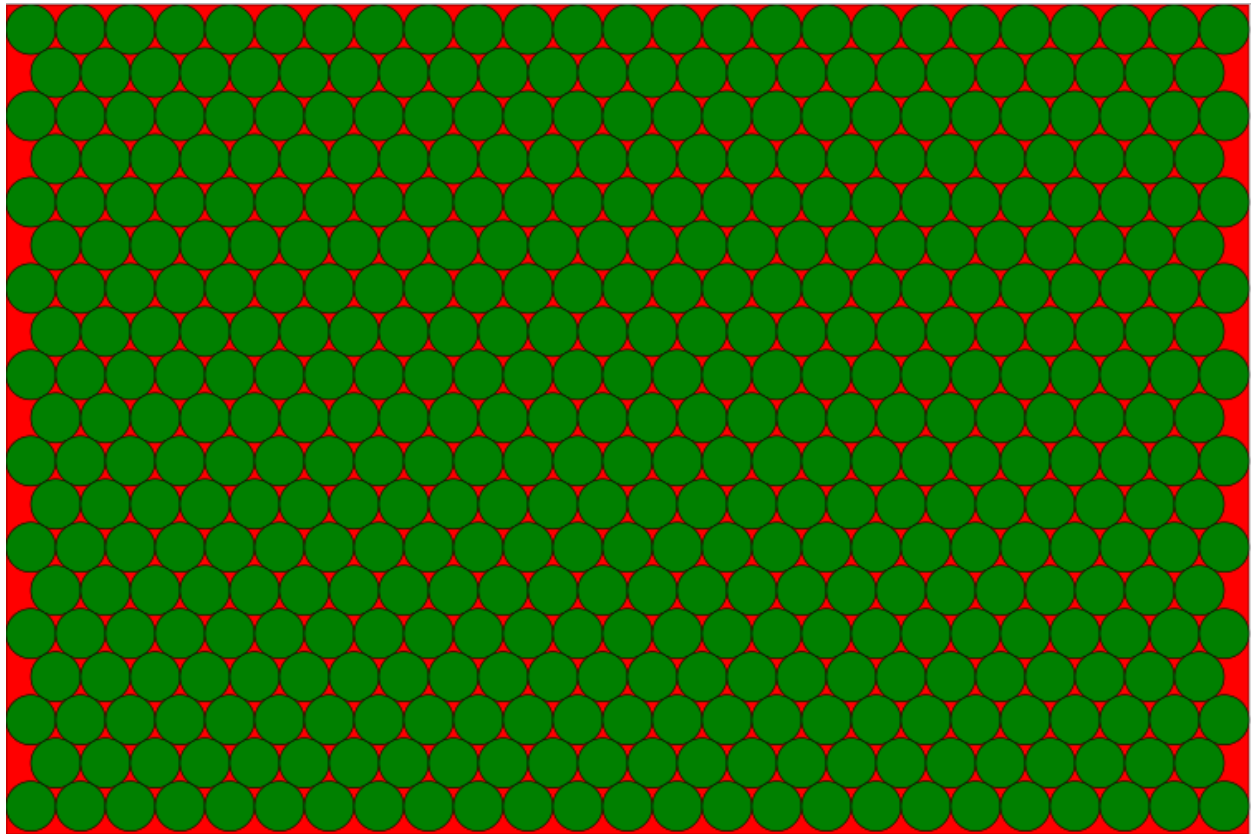
```
user@PITHBLOOD:/mnt/c/users/muham/desktop/cpp/homework1$ ./1
Please enter the main container shape (R, C, T)
r
Please enter the width
500
Please enter the height
750
Please enter the small shape (R, C, T)
r
Please enter the width
110
Please enter the height
15
I can fit at most 218 small shapes into the main container. The empty area (red) in container is 15300
```



[Output2.svg](#)

```
user@PITHBLOOD:/mnt/c/users/muham/desktop/cpp/homework1$ ./1
Please enter the main container shape (R, C, T)
R
Please enter the width
750
Please enter the height
500
Please enter the small shape (R, C, T)
C
Please enter the radius
15
I can fit at most 466 small shapes into the main container. The empty area (red) in container is 45604
```

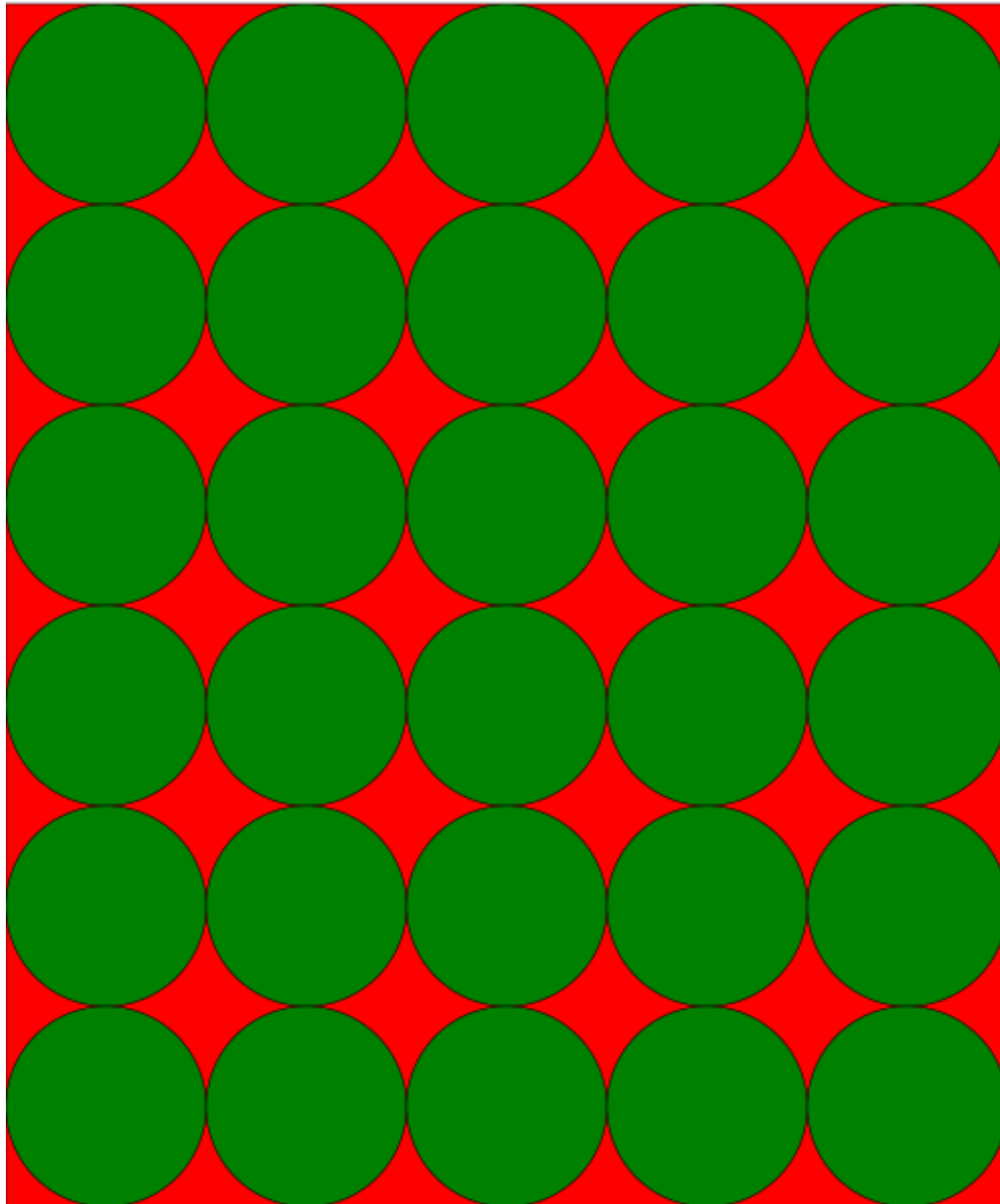
Triangle Pattern



[Output3.svg](#)

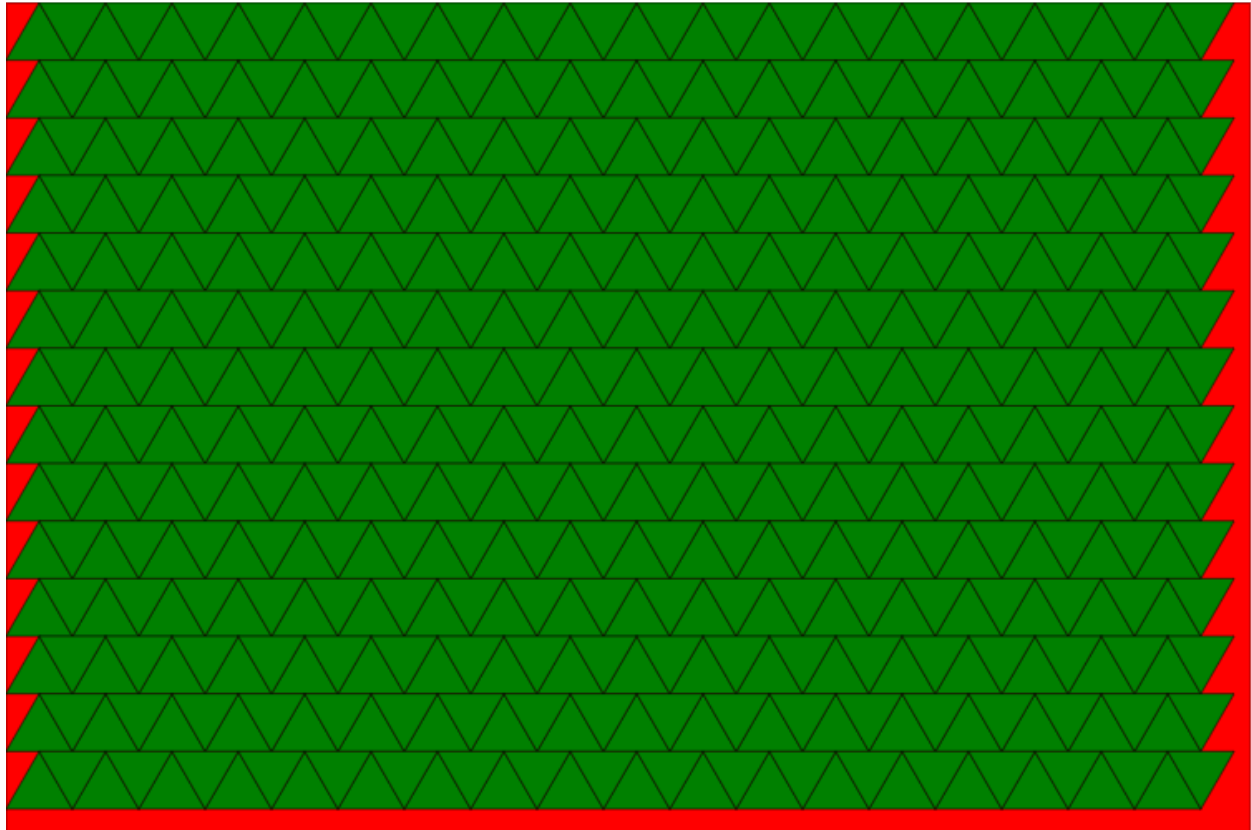
```
Please enter the main container shape (R, C, T)
R
Please enter the width
500
Please enter the height
600
Please enter the small shape (R, C, T)
C
Please enter the radius
50
I can fit at most 30 small shapes into the main container. The empty area (red) in container is 64380.6
```

Rectangle Pattern



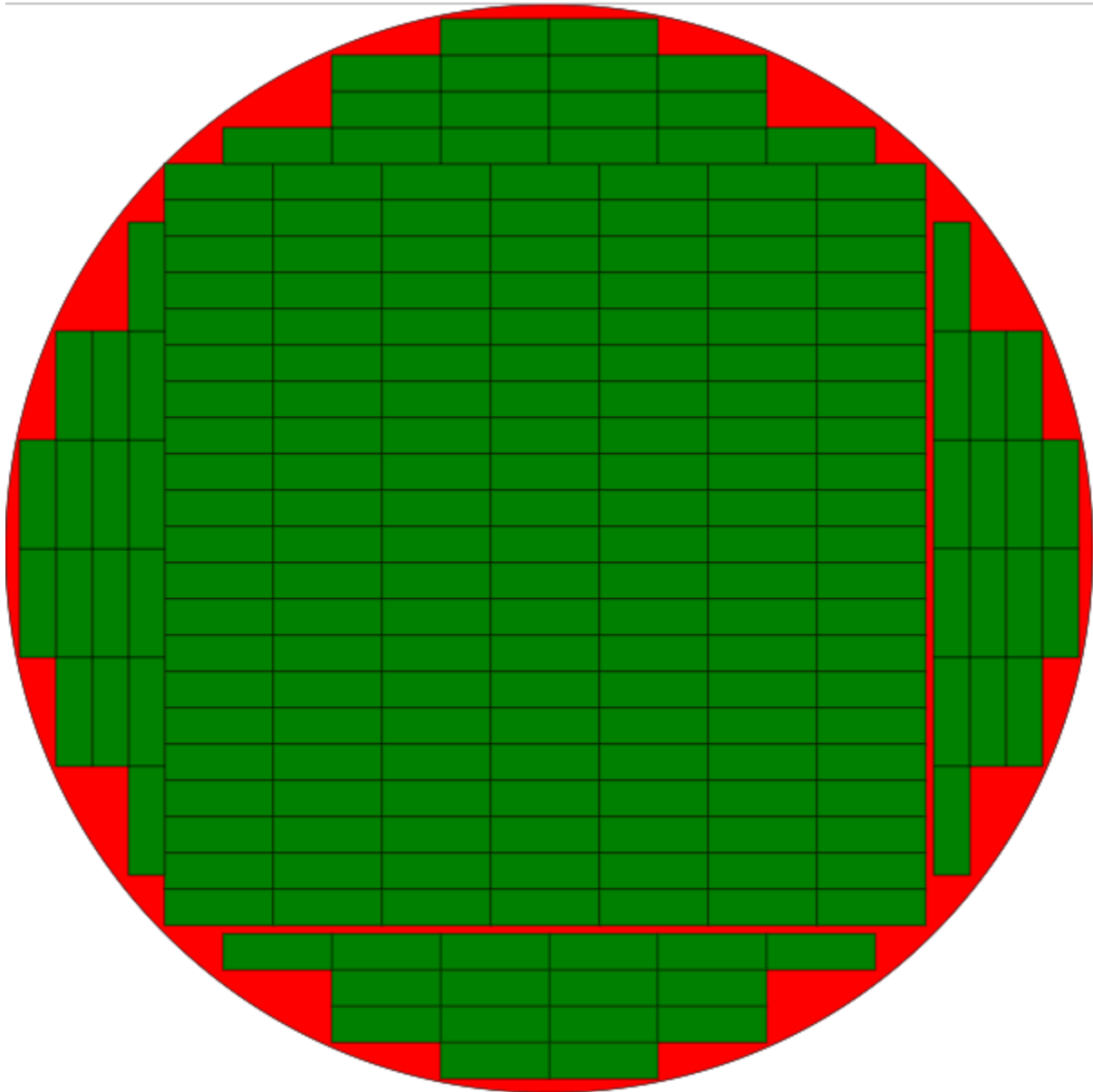
[Output4.svg](#)

```
user@PITHBLOOD:/mnt/c/users/muham/desktop/cpp/homework1$ ./1
Please enter the main container shape (R, C, T)
R
Please enter the width
750
Please enter the height
500
Please enter the small shape (R, C, T)
T
Please enter edge length
40
I can fit at most 504 small shapes into the main container. The empty area (red) in container is 25818.6
```



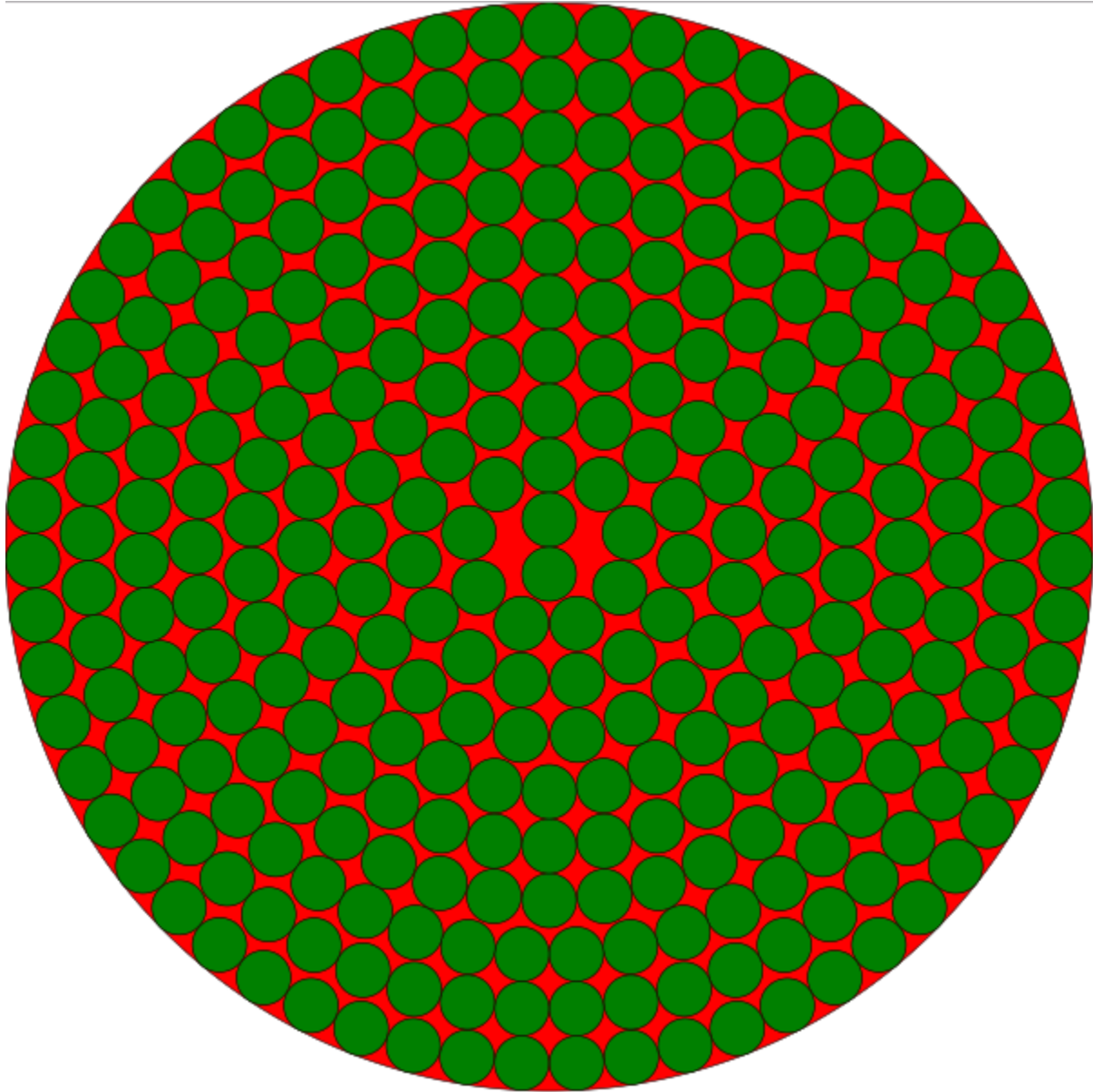
[Output5.svg](#)

```
user@PITHBLOOD:/mnt/c/users/muham/desktop/cpp/homework1$ ./1
Please enter the main container shape (R, C, T)
C
Please enter the radius
300
Please enter the small shape (R, C, T)
R
Please enter the width
60
Please enter the height
20
I can fit at most 211 small shapes into the main container. The empty area (red) in container is 29543.3
```



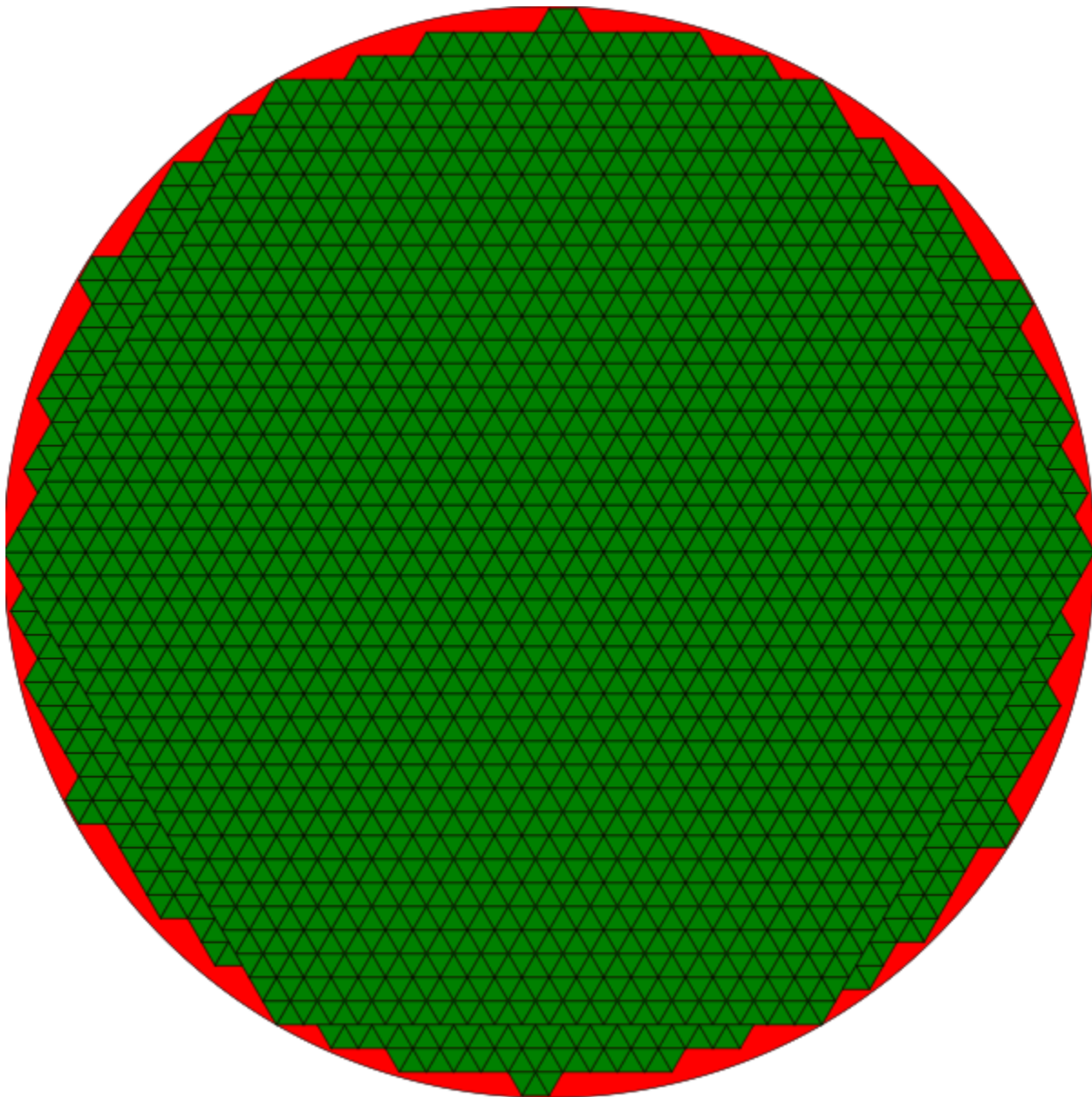
[Output6.svg](#)

```
user@PITHBLOOD:/mnt/c/users/muham/desktop/cpp/homework1$ ./1
Please enter the main container shape (R, C, T)
C
Please enter the radius
300
Please enter the small shape (R, C, T)
C
Please enter the radius
15
I can fit at most 308 small shapes into the main container. The empty area (red) in container is 65031
```



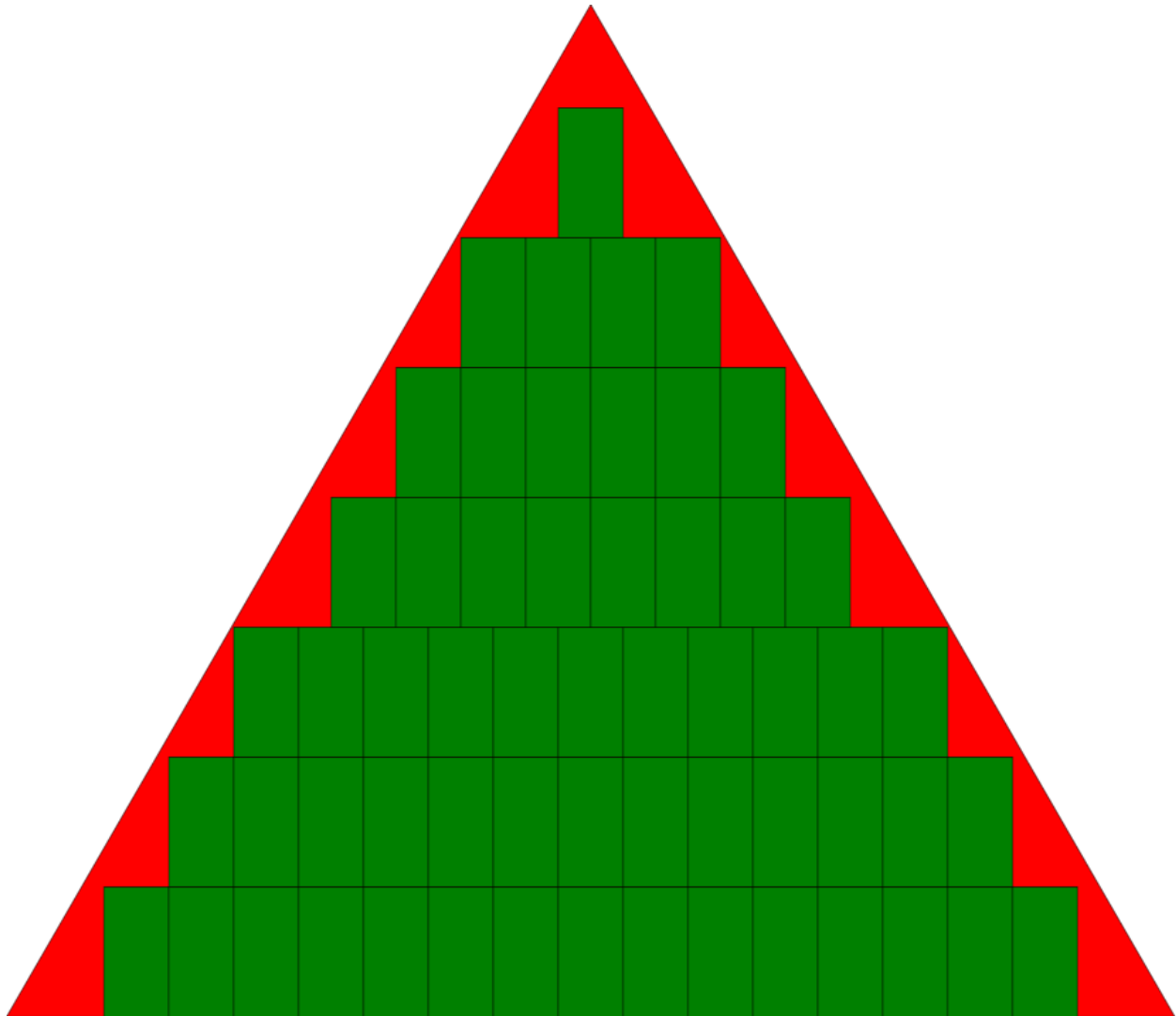
[Output7.svg](#)

```
user@PITHBLOOD:/mnt/c/users/muham/desktop/cpp/homework1$ ./1
Please enter the main container shape (R, C, T)
C
Please enter the radius
300
Please enter the small shape (R, C, T)
T
Please enter edge length
15
I can fit at most 2730 small shapes into the main container. The empty area (red) in container is 16765.3
```



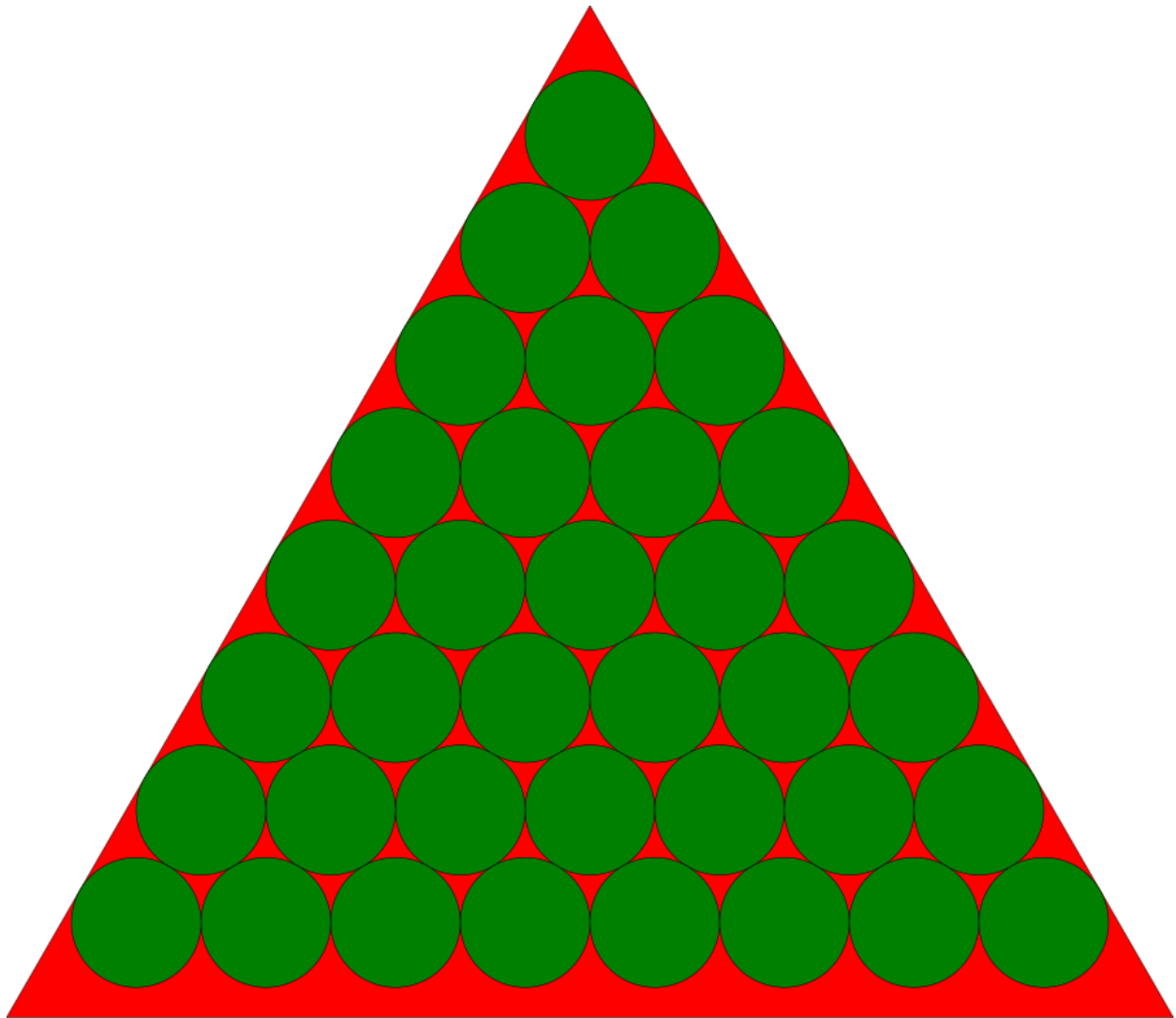
[Output8.svg](#)


```
user@PITHBLOOD:/mnt/c/users/muham/desktop/cpp/homework1$ ./1
Please enter the main container shape (R, C, T)
T
Please enter edge length
900
Please enter the small shape (R, C, T)
R
Please enter the width
50
Please enter the height
100
I can fit at most 58 small shapes into the main container. The empty area (red) in container is 60740.3
```



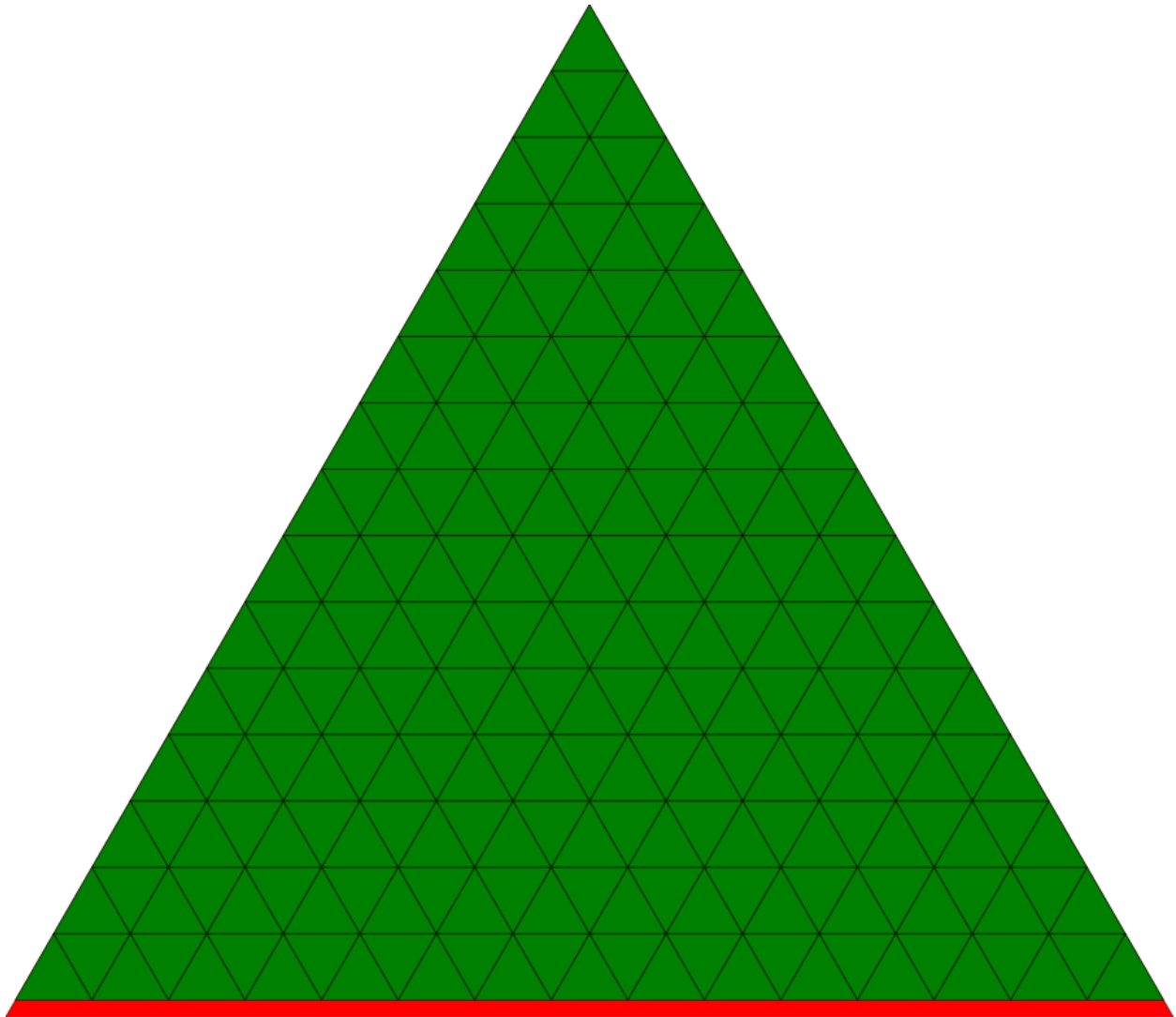
[Output9.svg](#)

```
user@PITHBLOOD:/mnt/c/users/muham/desktop/cpp/homework1$ ./1
Please enter the main container shape (R, C, T)
T
Please enter edge length
900
Please enter the small shape (R, C, T)
C
Please enter the radius
50
I can fit at most 36 small shapes into the main container. The empty area (red) in container is 67996.9
```



[Output10.svg](#)

```
user@PITHBLOOD:/mnt/c/users/muham/desktop/cpp/homework1$ ./1
Please enter the main container shape (R, C, T)
T
Please enter edge length
900
Please enter the small shape (R, C, T)
T
Please enter edge length
59
I can fit at most 225 small shapes into the main container. The empty area (red) in container is 11593.9
```



[Output11.svg](#)