

Chapter 7

Lab 7.1.1 (1)

```
[ec2-user@ip-172-31-82-95 Lab 7.1.1 (1)]$ g++ -std=c++11 -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 7.1.1 (1)]$ ./output
2
4
[ec2-user@ip-172-31-82-95 Lab 7.1.1 (1)]$ ./output
0
Dividing by zero!
0
[ec2-user@ip-172-31-82-95 Lab 7.1.1 (1)]$ ./output
512
0
[ec2-user@ip-172-31-82-95 Lab 7.1.1 (1)]$
```

Lab 7.1.3 (1)

```
[ec2-user@ip-172-31-82-95 Lab 7.1.3 (1)]$ g++ -std=c++11 -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 7.1.3 (1)]$ ./output
4
2
2
sh: pause: command not found
[ec2-user@ip-172-31-82-95 Lab 7.1.3 (1)]$ ./output
4
0
Your input is not valid, you can't divide by zero.
sh: pause: command not found
[ec2-user@ip-172-31-82-95 Lab 7.1.3 (1)]$ ./output
42
7
6
sh: pause: command not found
[ec2-user@ip-172-31-82-95 Lab 7.1.3 (1)]$
```

Lab 7.2.3 (1)

```

[ec2-user@ip-172-31-82-95 Lab 7.2.3 (1)]$ g++ -std=c++11 -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 7.2.3 (1)]$ ./output
2
1
2

6
0
Are you kidding me?
Your input is not valid. You can't divide by zero.

42
7
6

^C
[ec2-user@ip-172-31-82-95 Lab 7.2.3 (1)]$ █

```

Lab 7.2.4 (1)

```

[ec2-user@ip-172-31-82-95 Lab 7.2.4 (1)]$ g++ -std=c++11 -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 7.2.4 (1)]$ ./output
2
1
4
2
sh: pause: command not found
[ec2-user@ip-172-31-82-95 Lab 7.2.4 (1)]$ ./output
-10
6
Your input is not valid. The area can't be negative.

sh: pause: command not found
[ec2-user@ip-172-31-82-95 Lab 7.2.4 (1)]$ ./output
2
2
4
4
sh: pause: command not found
[ec2-user@ip-172-31-82-95 Lab 7.2.4 (1)]$ █

```

Lab 7.2.5 (1)

```
[ec2-user@ip-172-31-82-95 Lab 7.2.5 (1)]$ g++ -std=c++11 -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 7.2.5 (1)]$ ./output
input
2 2 2 2 3 3
0 0
0 0
Matrices don't fit
Matrices don't fit
sh: pause: command not found
[ec2-user@ip-172-31-82-95 Lab 7.2.5 (1)]$ ./output
input
2 2 3 3 3 3
Matrices don't fit
0 0 0
0 0 0
0 0 0
Matrices don't fit
sh: pause: command not found
[ec2-user@ip-172-31-82-95 Lab 7.2.5 (1)]$
```

Lab 7.2.6 (1)

```

[ec2-user@ip-172-31-82-95 Lab 7.2.6 (1)]$ g++ -std=c++11 -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 7.2.6 (1)]$ ./output
Enter A value and limits
5 0 10
Enter B value and limits
9 0 100
Add to A :
15
Value could exceed limit.
Add to B :
15
90
Value could exceed limit.
Result:
A 5
B 24
[ec2-user@ip-172-31-82-95 Lab 7.2.6 (1)]$ ./output
Enter A value and limits
0
0
10
Enter B value and limits
0
5
10
Add to A :
1
5
6
Value could exceed limit.
Add to B :
1
0
5
9
Value could exceed limit.
Result:
A 6
B 6
[ec2-user@ip-172-31-82-95 Lab 7.2.6 (1)]$

```

Lab 7.3.7 (1)

Linux so friendly

```

[ec2-user@ip-172-31-82-95 Lab 7.3.7 (1)]$ g++ -std=c++11 -lm -o output Lab*.cpp
Lab 7.3.7 (1).cpp:7:18: fatal error: io.h: No such file or directory
#include "io.h"
                  ^
compilation terminated.
[ec2-user@ip-172-31-82-95 Lab 7.3.7 (1)]$

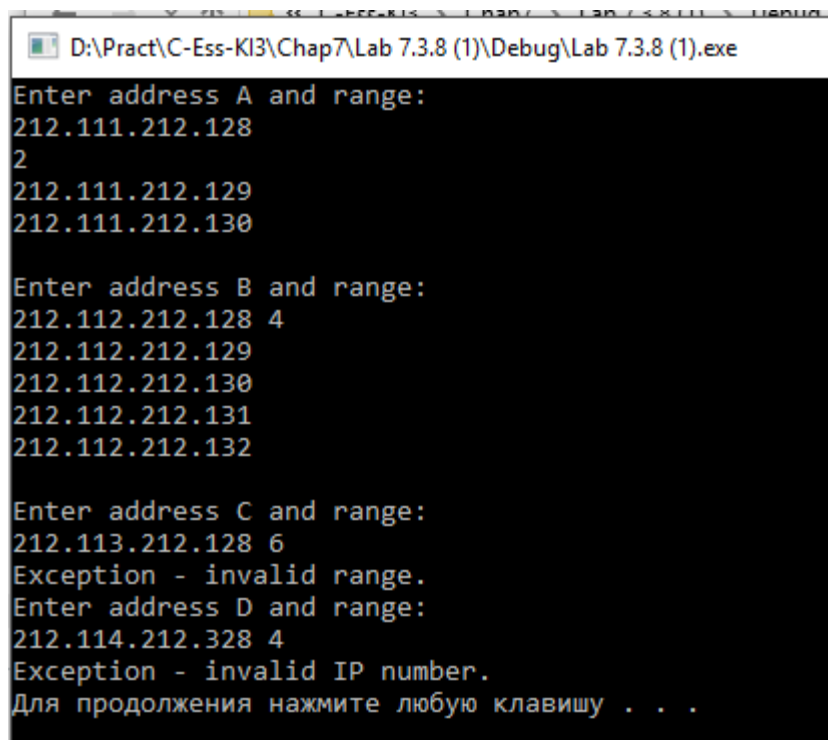
```

```
[ec2-user@ip-172-31-82-95 Lab 7.3.7 (1)]$ g++ -std=c++11 -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 7.3.7 (1)]$ ./output
File not found at: D:\nonexisting.txt
No rights to write to file: D:\readOnlyFile.txt
sh: pause: command not found
[ec2-user@ip-172-31-82-95 Lab 7.3.7 (1)]$
```

Lab 7.3.8(1)

Linux so good

```
[ec2-user@ip-172-31-82-95 Lab 7.3.8 (1)]$ g++ -std=c++11 -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 7.3.8 (1)]$ ./output
Enter address A and range:
212.111.212.128
2
terminate called after throwing an instance of 'std::regex_error'
  what():  regex_error
Aborted
[ec2-user@ip-172-31-82-95 Lab 7.3.8 (1)]$ ./output
Enter address A and range:
```



```
D:\Pract\C-Ess-KI3\Chap7\Lab 7.3.8 (1)\Debug\Lab 7.3.8 (1).exe
Enter address A and range:
212.111.212.128
2
212.111.212.129
212.111.212.130

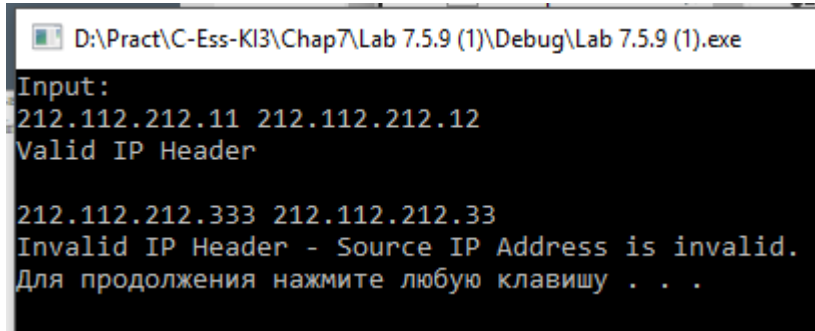
Enter address B and range:
212.112.212.128 4
212.112.212.129
212.112.212.130
212.112.212.131
212.112.212.132

Enter address C and range:
212.113.212.128 6
Exception - invalid range.
Enter address D and range:
212.114.212.328 4
Exception - invalid IP number.
Для продолжения нажмите любую клавишу . . .
```

Lab 7.5.9(1)

```
[ec2-user@ip-172-31-82-95 Lab 7.5.9 (1)]$ ./output
Input:
212.112.212.11 212.112.212.12
terminate called after throwing an instance of 'std::regex_error'
  what():  regex_error
Aborted

[ec2-user@ip-172-31-82-95 Lab 7.5.9 (1)]$
```



```
D:\Pract\C-Ess-KI3\Chap7\Lab 7.5.9 (1)\Debug\Lab 7.5.9 (1).exe
Input:
212.112.212.11 212.112.212.12
Valid IP Header

212.112.212.333 212.112.212.33
Invalid IP Header - Source IP Address is invalid.
Для продолжения нажмите любую клавишу . . .
```

Lab 7.5.10 (1)

```
[ec2-user@ip-172-31-82-95 Lab 7.5.10 (1)]$ g++ -std=c++11 -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 7.5.10 (1)]$ ./output
tower_1:
tower_2:
tower_3: 2 3 1
sh: pause: command not found
[ec2-user@ip-172-31-82-95 Lab 7.5.10 (1)]$
```