

Chapter 3

Lab 3.2.12 (1)

```
[ec2-user@ip-172-31-82-95 Lab 3.2.12 (1)]$ g++ -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 3.2.12 (1)]$ ./output
-13
[ec2-user@ip-172-31-82-95 Lab 3.2.12 (1)]$
```

Lab 3.2.12 (2)

```
[ec2-user@ip-172-31-82-95 Lab 3.2.12 (2)]$ g++ -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 3.2.12 (2)]$ ./output
 1  2  3  4  5  6  7  8  9 10
 2  4  6  8 10 12 14 16 18 20
 3  6  9 12 15 18 21 24 27 30
 4  8 12 16 20 24 28 32 36 40
 5 10 15 20 25 30 35 40 45 50
 6 12 18 24 30 36 42 48 54 60
 7 14 21 28 35 42 49 56 63 70
 8 16 24 32 40 48 56 64 72 80
 9 18 27 36 45 54 63 72 81 90
10 20 30 40 50 60 70 80 90 100
[ec2-user@ip-172-31-82-95 Lab 3.2.12 (2)]$
```

Lab 3.4.7 (1)

```
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (1)]$ g++ -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (1)]$ ./output
1995 -> 0
1996 -> 1
1997 -> 0
1998 -> 0
1999 -> 0
2000 -> 1
2001 -> 0
2002 -> 0
2003 -> 0
2004 -> 1
2005 -> 0
2006 -> 0
2007 -> 0
2008 -> 1
2009 -> 0
2010 -> 0
2011 -> 0
2012 -> 1
2013 -> 0
2014 -> 0
2015 -> 0
2016 -> 1
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (1)]$
```

Lab 3.4.7 (2)

```
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (2)]$ g++ -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (2)]$ ./output
31 29 31 30 31 30 31 31 30 31 30 31
31 28 31 30 31 30 31 31 30 31 30 31
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (2)]$
```

Lab 3.4.7 (3)

```
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (3)]$ g++ -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (3)]$ ./output
Enter year month day: 2016 3 1
61
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (3)]$ ./output
Enter year month day: 2015 3 1
60
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (3)]$ ./output
Enter year month day: 2016 12 30
365
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (3)]$ ./output
Enter year month day: 2015 12 31
365
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (3)]$ ./output
Enter year month day: 2017 12 18
352
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (3)]$
```

Lab 3.4.7 (4)

```
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (4)]$ g++ -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (4)]$ ./output
Enter first date (y m d): 1901 1 1
Enter second date (y m d): 2016 1 1
42003
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (4)]$ ./output
Enter first date (y m d): 2001 12 30
Enter second date (y m d): 2016 12 31
5480
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (4)]$ ./output
Enter first date (y m d): 1999 1 31
Enter second date (y m d): 1999 12 1
304
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (4)]$ ./output
Enter first date (y m d): 1999 1 2
Enter second date (y m d): 1999 1 11
9
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (4)]$ ./output
Enter first date (y m d): 1999 2 2
Enter second date (y m d): 1999 1 11
-1
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (4)]$ ./output
Enter first date (y m d): 2015 9 1
Enter second date (y m d): 2017 12 18
839
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (4)]$
```

Lab 3.4.7 (5)

Some Visual C++ in this Linux

```
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (5)]$ g++ -lm -o output Lab*.cpp
Lab 3.4.7 (5).cpp: In function 'Date today()':
Lab 3.4.7 (5).cpp:20:21: error: 'localtime_s' was not declared in this scope
    localtime_s(&t1, &t);
                    ^
```

Lab 3.4.7 (6)

```
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (6)]$ g++ -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (6)]$ ./output
2 3 5 7 11 13 17 19
[ec2-user@ip-172-31-82-95 Lab 3.4.7 (6)]$
```

Lab 3.6.3 (1)

```
[ec2-user@ip-172-31-82-95 Lab 3.6.3 (1)]$ g++ -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 3.6.3 (1)]$ ./output
25
[ec2-user@ip-172-31-82-95 Lab 3.6.3 (1)]$
```

Lab 3.8.7 (1)

```
[ec2-user@ip-172-31-82-95 Lab 3.8.7 (1)]$ g++ -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 3.8.7 (1)]$ ./output
537.5
[ec2-user@ip-172-31-82-95 Lab 3.8.7 (1)]$
```

Lab 3.10.8 (1)

```
[ec2-user@ip-172-31-82-95 Lab 3.10.8 (1)]$ g++ -lm -o output Lab*.cpp
[ec2-user@ip-172-31-82-95 Lab 3.10.8 (1)]$ ./output
Max ball number? 5
How many balls? 10
Imposibru!
[ec2-user@ip-172-31-82-95 Lab 3.10.8 (1)]$ ./output
Max ball number? 15
How many balls? 5
Balls: 10 2 6 15 8
[ec2-user@ip-172-31-82-95 Lab 3.10.8 (1)]$
```

Lab 3.10.8 (2)

```
[ec2-user@ip-172-31-82-95 Lab 3.10.8 (2)]$ ./output
How many elements? 42
[ 56 66 65 50 53 84 68 31 25 4 89 56 19 10 23 63 90 34 86 27 76 93 14 50 99 69 17 5
2 17 32 25 72 97 90 74 2 25 41 84 1 96 24 ]
[ec2-user@ip-172-31-82-95 Lab 3.10.8 (2)]$ ./output
How many elements? 0
[ ]
[ec2-user@ip-172-31-82-95 Lab 3.10.8 (2)]$ ./output
How many elements? -1
[ ]
[ec2-user@ip-172-31-82-95 Lab 3.10.8 (2)]$
```