

Lab 2.3.5 Drawing squares (actually: rectangles)

Objectives

Familiarize the student with:

- using nested for loops;
- using non-conflicting control variable names;
- · building properly formatted output.

Scenario

Look at the sample code below – it draws a shape pretending to be a rectangle (we would like to name it "square", but neither the monitor nor the printer can show it as a real square).

Your task is to modify the code to achieve the following goals:

- ask the user to enter a positive integer value greater than 1 (n);
- check the entered value and if it isn't legal, output a message stating the reason;
- draw a square with a side of n.

Find the reasonable upper limit for n (depending on your screen's dimensions) and embed it into your code.

```
#include <iostream>
using namespace std;
int main(void) {
cout << '+';
for(int i = 0; i < 4; i++)
 cout << '-';
 cout << '+' << endl;</pre>
 for(int i = 0; i < 4; i++) {</pre>
  cout << '|';
 for(int j = 0; j < 4; j++)
  cout << ' ';
  cout << '|' << endl;</pre>
 cout << '+';
 for(int i = 0; i < 4; i++)</pre>
 cout << '-';
 cout << '+' << endl;
return 0;
}
```

Example input

3

Example output

+-+ | |

Example input

8

Example output								
+	+							
-								
i	į							
i	i							
+	+							

Example input

100

Example output

Sorry, the side size is too big