

## **Lesson 12 CPP Practice 2**

In the last lesson, we learned how to print a triangle. Now we are going to print a reversed triangle:

```
#include <iostream>
using namespace std;
int main() {
int n;
cout << "Please enter a number: ";
cin >> n;
for (int i = 1; i \le n; i++){
//number of lines
for (int j = i; j \le n; j++)
//we putted i because the triangle should be reversed
cout << "*";
cout << endl;
}
input:
3
```

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## output:

```
***
**
We can now try to solve this problem using a new function
substr(x):
#include <iostream>
#include <string>
using namespace std;
int main() {
string name = "ahmed";
cout << name.substr(1) << endl;</pre>
cout << name.substr(2) << endl;</pre>
cout << name.substr(3) << endl;</pre>
cout << name.substr(4) << endl;</pre>
}
output:
hmed
med
ed
d
```

Solution of the first problem:

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```
#include <iostream>
#include <string>
using namespace std;
int main() {
string s;
int n;
cout << "Please enter a number: ";</pre>
cin >> n;
for (int i = 0; i < n; i++)
s += "*";
for (int i = 0; i < n; i++)
cout << s.substr(i) << endl;
}
input:
5
output:
****
****
***
**
*
```