#### Add Strings in C++

# #include <iostream> #include <string> using namespace std; string addStrings(string num1, string num2) { string res = ""; int i = num1.length() - 1; int j = num2.length() - 1;int carry = 0; while $(i \ge 0 | | j \ge 0 | | carry$ !=0) { $int ival = i \ge 0$ ? num1[i] -'0':0; $int jval = j \ge 0$ ? num2[j] -'0':0; int sum = ival + jval + carry; res = to\_string(sum % 10) + res; carry = sum / 10;i--; j--; return res; int main() { string n1 = "123"; string n2 = "23"; string res = addStrings(n1, cout << res << endl; // Output should be 146

### **Input:**

```
n1 = "123"
n2 = "23"
```

# Dry Run Table:

Step	i	j	num1[i]	num2[j]	ival	jval	carry (before)	<pre>sum = ival + jval + carry</pre>	res	carry (after)
1	2	1	'3'	'3'	3	3	0	6	"6"	0
2	1	0	'2'	'2'	2	2	0	4	"46"	0
3	o	- 1	'1'	-	1	0	0	1	"146"	0

### **∜** Final Output:

"146"

return 0;