Chapter V

Exercise 01: Reverse Polish Notation

	Exercise: 01	
/	RPN	
Turn-in directory : $ex01/$		
Files to turn in : Makefile, main.cpp, RPN.{cpp, hpp}		
Forbidden functions: None		

You must create a program with these constraints:

- The program name is RPN.
- Your program must take an inverted Polish mathematical expression as an argument.
- The numbers used in this operation and passed as arguments will always be less than 10. The calculation itself but also the result do not take into account this rule.
- Your program must process this expression and output the correct result on the standard output.
- If an error occurs during the execution of the program an error message should be displayed on the standard output.
- \bullet Your program must be able to handle operations with these tokens: "+ / *".



You must use at least one container in your code to validate this exercise.

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You don't need to manage the brackets or decimal numbers.

Here is an example of a standard use:

```
$> ./RPN "8 9 * 9 - 9 - 9 - 4 - 1 +"
42
$> ./RPN "7 7 * 7 -"
42
$> ./RPN "1 2 * 2 / 2 * 2 4 - +"
0
$> ./RPN "(1 + 1)"
Error
$>
```



Warning: The container(s) you used in the previous exercise are forbidden here. The container(s) you used to validate this exercise will not be usable for the rest of this module.