1. DIAGRAM OF CENTRAL CLASSES:

Input

Input();

- + std::string Taking_Input();
- + std::vector<int> Int_Numbers(std::string input);
- + std::string Symbols(std::string input);
- + std::string Result_to_String(int final_res);
- + void +printOutput(std::vector<std::string> output);
- $+ \sim Input();$

Infix

- std::vector<std::string> output;
- std::string Str_Infix;
- std::vector<int> Infix_Numbers;
- std::string Str_Symbols;
- + Infix();
- + Result(std::string sign, int a, int b); int
- + Result_to_String(int res); std::string
- + Prefix to Infix();

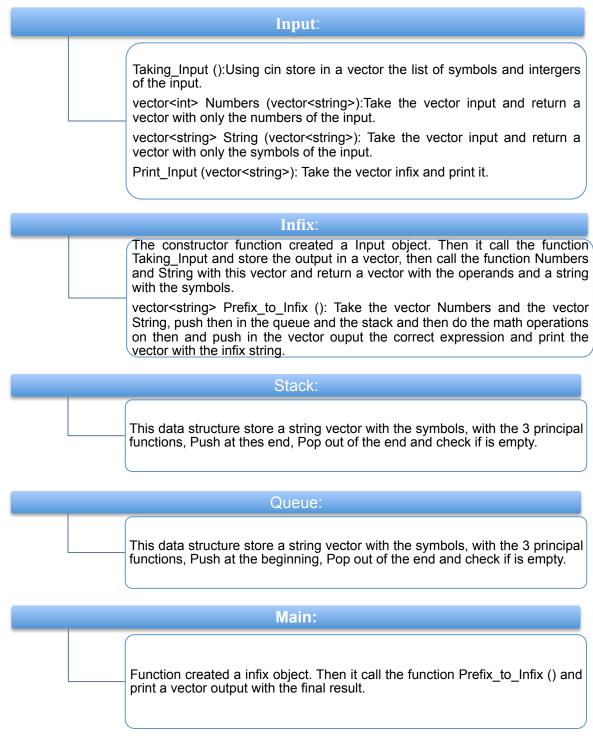
myStack

- vector<string> symbols
- + push (string)
- + pop ():string
- + empty(): bool

myQueue

- vector<int> numbers
- + push (int)
- + pop ():int
- + empty(): bool

2. EXPLANATION OF CORE FUNCTION:



3. TESTING: Following is a description of the test cases that will be used to test my program.

Given input	Rationale	I expect output
* - 5 6 7	Test the 1er example input giving in the practical	(5 - 6) * 7 = -7
/ + * - 5 6 7 3 2	Test the 2do example input giving in the practical	((5-6)*7+3)/2=-2
* 5 6 7	Test the 3do example input giving in the practical	Error
/ + * - 5 -6 -7 3 2	Test negative numbers	Error
/ + * - 5 6 77 63 2	Test numbers greater than 99	Error
/+*-56732	Check input without spaces	((5-6)*7+3)/2=-2