## KATA - Reverse Polish Notation = RPN

In reverse Polish notation the operators follow their operands; for instance, to add 3 and 4, one would write "3 4 +" rather than "3 + 4". If there are multiple operations, the operator is given immediately after its second operand; so the expression written "3 – 4 + 5" in conventional notation would be written "3 4 – 5 +" in RPN: 4 is first subtracted from 3, then 5 added to it. An advantage of RPN is that it obviates the need for parentheses that are required by infix. While "3 – 4 \* 5" can also be written "3 – (4 \* 5)", that means something quite different from "(3 – 4) \* 5". In postfix, the former could be written "3 4 5 \* -", which unambiguously means "3 (4 5 \*) -" which reduces to "3 20 -"; the latter could be written "3 4 – 5 \*" (or 5 3 4 – \*, if keeping similar formatting), which unambiguously means "(3 4 -) 5 \*".

```
The goal of this kata is to create a program that performs calculations using reverse Polish notation.
                -> retourne l'objet sans le supprimer, situe au sommet de la pule
                 7 -1 si objet of do pile
removoi (int) posito objet dipile
                                                        il laut
                                                     un sigle de (= qu'au remplace de
              34-5+" - 3-4+5
boolean
                                                                                   lostrung
                                                         sile
= reste se
sile vide
              345*-" -> 3-(4x5)
534-*"="34-5*" - (3-4) \times 5
                                                    Stack => extension de vector, une pile du type derniere
               Exemple:
                                                                 entre/premier sort
     void main () h
                 string[] str = new string [] { "3", "4", "-", "5", "+"};
                 Eyspur ( calculran(s));
                                                (a cast string to int)
Integer. value of
                                                                                récupère l'objet
                                                                            au sonnet de la pile
       int coloul RAN (String[] str)
              int result =0;
string operations = "+-*/";
                                                                          gerateur. under O. (s)
                                                             switch (index)
                                                                                    string value
      stack (string) tmp = new stack (string) ();
                                                               case 0:
             for (string s: str) 9
sicontuntor ( )(! sperateurs.contains(s)){

tmp.put(s);
                                                                                    la pile etle
                                                                                       renounce
```