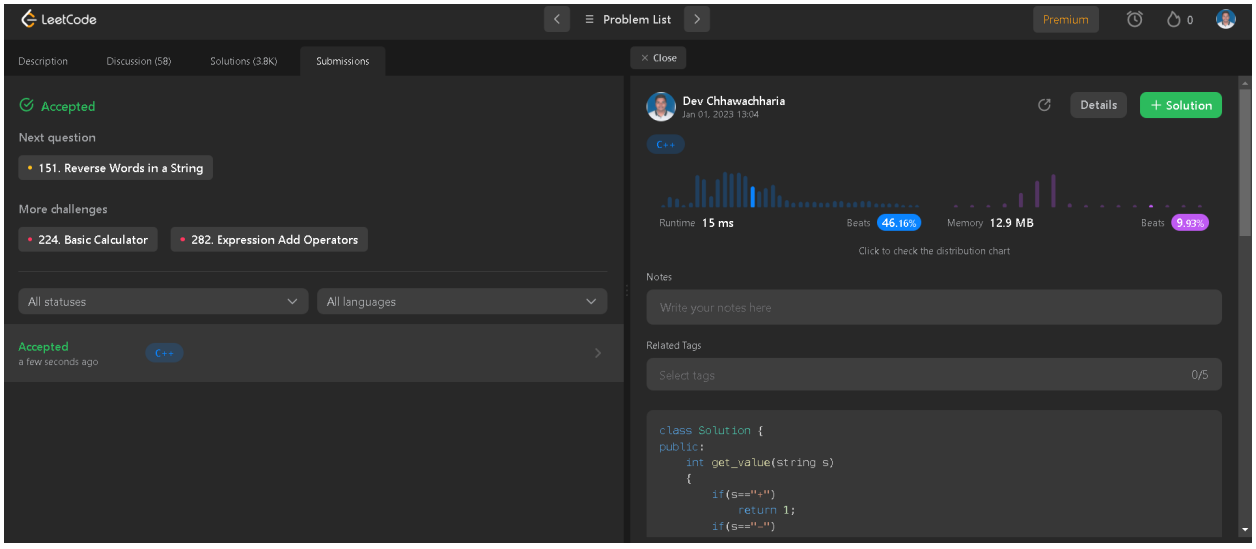
Question 1:
https://leetcode.com/problems/evaluate-reverse-polish-notation/

You are given an array of strings tokens that represents an arithmetic expression in a Reverse Polish Notation.
Evaluate the expression. Return an integer that represents the value of the expression.
Note that:

- The valid operators are '+', '-', '*', and '/'.
- Each operand may be an integer or another expression.
- The division between two integers always truncates toward zero.
- There will not be any division by zero.
- The input represents a valid arithmetic expression in a reverse polish notation.
- The answer and all the intermediate calculations can be represented in a 32-bit integer.

My approach:
Make a stack
For every element in the vector
If it is a operand push it in the stack
If it is a operator:
    Take out the first 2 operands.
    Evaluate the result and put the result back on the stack.
Final result will be the stack top.



Code:-

```
class Solution {
public:
    int get_value(string s)
    {
```

```
    if(s=="+")
        return 1;
    if(s=="-")
        return 2;
    if(s=="*")
        return 3;
    if(s=="/")
        return 4;
    return -1;
}
int evalRPN(vector<string>& tokens) {
    stack<string> s;
    for(int i =0;i<tokens.size();i++)
    {
        if(tokens.at(i) == "-" || tokens.at(i)=="+" || tokens.at(i)=="*" || tokens.at(i)=="/")
        {
            int value = get_value(tokens.at(i));
            int op1 = stoi(s.top());
            s.pop();
            int op2 = stoi(s.top());
            s.pop();
            int eval;
            switch(value)
            {
                case 1:
                {
                    eval = op2 + op1;
                    break;
                }
                 case 2:
                {
                    eval = op2 - op1;
                    break;
                }
                 case 3:
                {
                    eval = op2 * op1;
                    break;
                }
                 case 4:
                {
                    eval = op2 / op1;
                    break;
                }
```

```
            }
            s.push(to_string(eval));
        }
        else
        {
            s.push(tokens.at(i));
        }
    }
    return stoi(s.top());

  }
};
```