

```

package postfixevaluation;

import java.util.Stack;
public class PostFixEvaluation
{
    static int evaluatePostfix(String exp)
    {
        //create a stack
        Stack<Integer> stack = new Stack<>();

        // Scan all characters one by one
        for(int i = 0; i < exp.length(); i++)
        {
            char c = exp.charAt(i);

            if(c == ' ')
                continue;

            // If the scanned character is an operand
            // (number here),extract the number
            // Push it to the stack.
            else if(Character.isDigit(c))
            {
                int n = 0;

                //extract the characters and store it in num
                while(Character.isDigit(c))
                {
                    n = n*10 + (int)(c-'0');
                    i++;
                    c = exp.charAt(i);
                }

                //push the number in stack
                stack.push(n);
            }

            // If the scanned character is an operator, pop two
            // elements from stack apply the operator
            else
            {
                int val1 = stack.pop();
                int val2 = stack.pop();

                switch(c)
                {
                    case '+':
                        stack.push(val2+val1);
                        break;

                    case '-':
                        stack.push(val2- val1);
                        break;
                }
            }
        }
    }
}

```

```
    case '/':  
    stack.push(val2/val1);  
    break;
```

```
    case '*':  
    stack.push(val2*val1);  
    break;
```

```
    }  
}
```

```
}  
return stack.pop();
```

```
}
```

```
// Driver program to test above functions
```

```
public static void main(String[] args)
```

```
{
```

```
    String exp = "100 200 + 2 / 5 * 7 +";
```

```
    System.out.println(evaluatePostfix(exp));
```

```
}
```

```
}
```