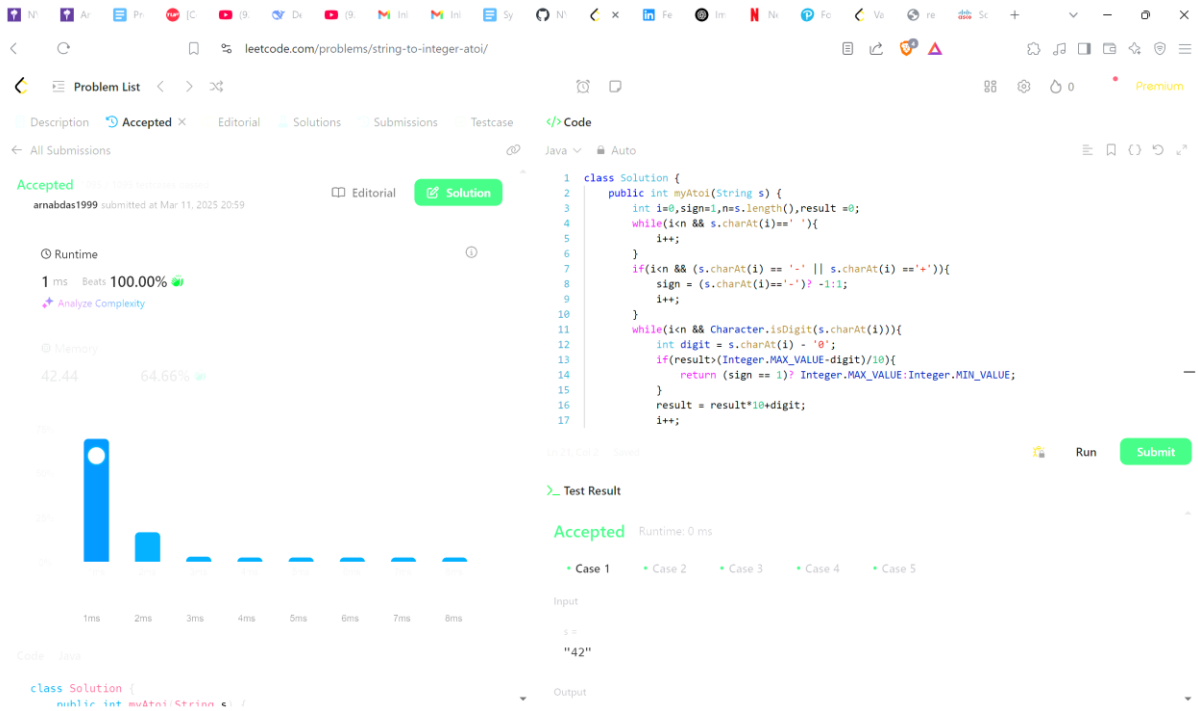
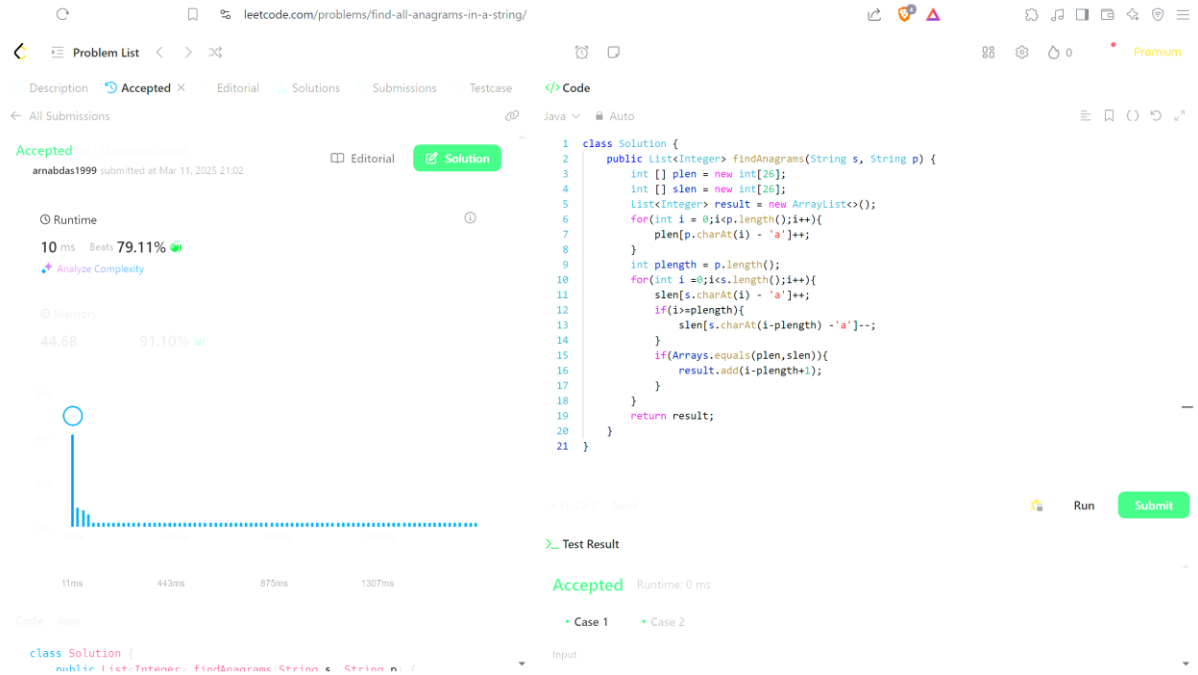
Assignment Week 2

```java
class Solution {
    public int myAtoi(String s) {
        int i=0,sign=1,n=s.length(),result =0;
        while(i<n && s.charAt(i)==' '){
            i++;
        }
        if(i<n && (s.charAt(i) == '-' || s.charAt(i) =='+')){
            sign = (s.charAt(i)=='-')? -1:1;
            i++;
        }
        while(i<n && Character.isDigit(s.charAt(i))){
            int digit = s.charAt(i) - '0';
            if(result>(Integer.MAX_VALUE-digit)/10){
                return (sign == 1)? Integer.MAX_VALUE:Integer.MIN_VALUE;
            }
            result = result*10+digit;
            i++;
        }
        return sign*result;
    }
}
```



Question 2

```java
class Solution {
    public List<Integer> findAnagrams(String s, String p) {
        int [] plen = new int[26];
        int [] slen = new int[26];
        List<Integer> result = new ArrayList<>();
        for(int i = 0;i<p.length();i++){
            plen[p.charAt(i) - 'a']++;
        }
        int plength = p.length();
        for(int i =0;i<s.length();i++){
            slen[s.charAt(i) - 'a']++;
            if(i>=plength){
                slen[s.charAt(i-plength) -'a']--;
            }
            if(Arrays.equals(plen,slen)){
                result.add(i-plength+1);
            }
        }
        return result;
    }
}
```



Question 3

```java
class Solution {

    public String reverseWords(String s) {
        String[] words= s.split("\\s+");
        StringBuilder res = new StringBuilder();
        for(int i = words.length -1;i>=0;i--){
            res.append(words[i]);
            if(i!=0){
                res.append(" ");
            }
        }
        return res.toString().trim();

    }
}
```