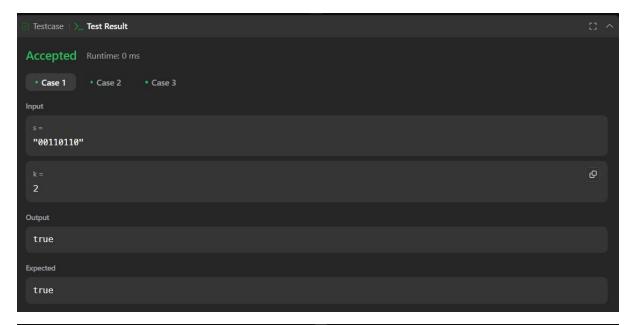
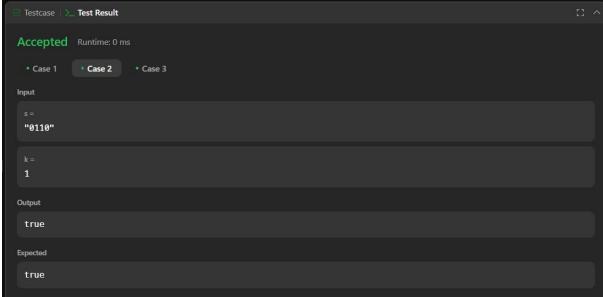
ADVANCED CODING-II

VU21CSEN0300011

Pranay Vuppu

1. Check If a String Contains All Binary Codes of Size K

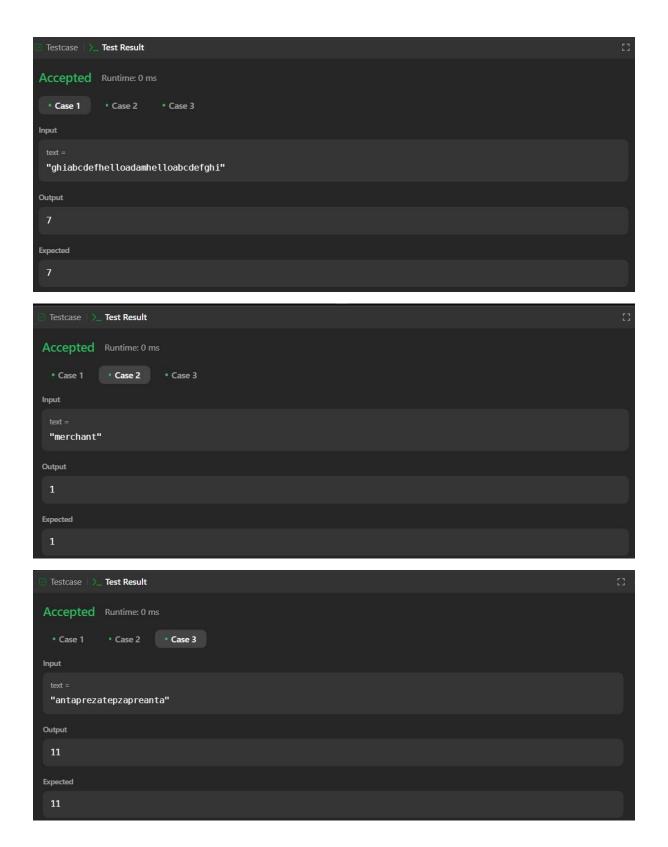






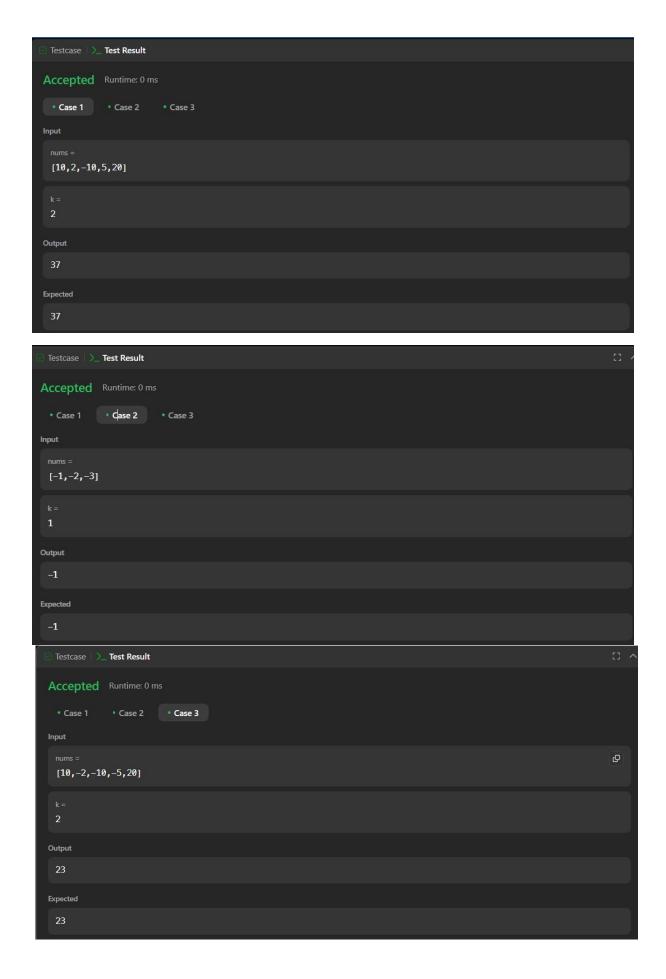
2.Longest Chunked Palindrome Decomposition

```
class Solution {      public int
longestDecomposition(String text) {
                int k = 0, totalLength = 0;
text.length();
int str1Start = 0, str1End = 0;
                                 int str2Start =
n-1, str2End = n; while (str1End < str2Start) {
if (text.substring(str1Start, str1End +
1).equals(text.substring(str2Start, str2End))) {
totalLength += (str2End - str2Start) * 2;
                    str1Start = str1End + 1;
str2End = str2Start;
str1End++;
str2Start--;
       if (totalLength < n) return (k * 2) + 1;</pre>
return k * 2;
```



3. Constrained Subsequence Sum

```
class Solution {      public int
res = Integer.MIN_VALUE;
       Queue<int[]> maxHeap = new PriorityQueue<>((a,b) -> Integer.compare(b[1],
a[1]));
       for (int i = 0; i < nums.length; i++) {</pre>
                                                    while
(!maxHeap.isEmpty() && (i - maxHeap.peek()[0] > k)) {
maxHeap.poll();
                      int temp = -10001;
(!maxHeap.isEmpty()) temp = maxHeap.peek()[1];
temp += nums[i];
                       temp = Math.max(temp, nums[i]);
res = Math.max(res, temp);
                                  maxHeap.add(new
int[]{i, temp});
      return res;
```



4. Max Value of Equation



