

Experiment 6

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Branch: BE-CSE

Semester: 6th

Subject Name: Advanced Programming - 2

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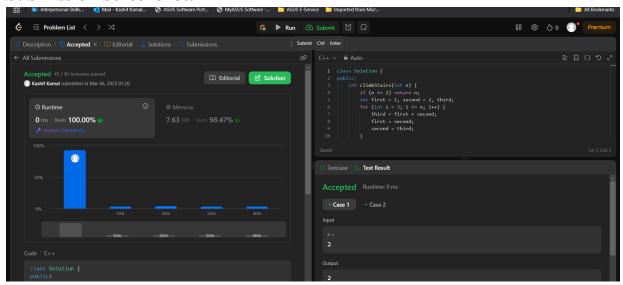
Ques 1:

Aim: Climbing Stairs

Code:

```
class Solution(object):
def climbStairs(self,
n):
  if n <= 2:
      return n
      a, b = 1, 2
      for _ in range(3, n + 1):
      a, b = b, a + b
      return b
```

Submission Screenshot:



Submission Link:

https://leetcode.com/problems/climbing-stairs/submissions/1564171675/

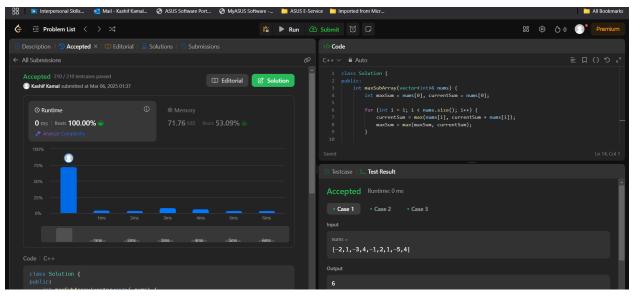
Ques 2:

Aim: Maximum Subarray

Code:

```
class Solution(object):
  def maxSubArray(self, nums):
      max_sum = cur_sum = nums[0]
      for num in nums[1:]:
      cur_sum = max(num, cur_sum + num)
      max_sum = max(max_sum, cur_sum)
      return max_sum
```

Submission Screenshot:



Submission Link:

https://leetcode.com/problems/maximum-subarray/submissions/1564167048/

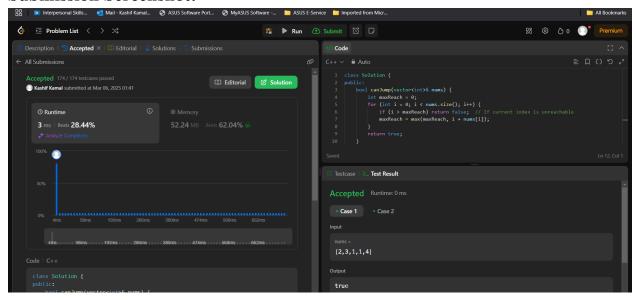
Ques 3:

Aim: Jump Game

Code:

```
class Solution(object):
  def canJump(self, nums):
      max_reach = 0
  for i, num in enumerate(nums):
      if i > max_reach:
          return False # If we reach an index we cannot jump to
      max_reach = max(max_reach, i + num)
      if max_reach >= len(nums) - 1:
          return True # If we can reach the last index
      return False
```

Submission Screenshot:



Submission Link:

http://leetcode.com/problems/jump-game/submissions/1564169890/