United International University
DSA 1 Lab - Section E
Final Exam
Total: 15   Time: 45 minutes

1. Write a function to replace the middle element with **m** from the original stack; you must keep the rest intact. The first line of the input will contain **n** (the number of elements in the stack) and **m**. The next line contains n integers. Assume that the value of n will always be odd. [7 marks]

Sample Input
5 10 32 98 -2 7 0

Stack Before the replacement	Stack After the replacement
0	0
7	7
-2	10
98	98
32	32

2. Write a function that will calculate the summation of a BST's elements (Binary Search Tree). [8 marks]
   Example: giving the following BST as input will result in
   Sum: 66