

Problem Statement I

Write a Java program that will accept a number as size of inputs. If the number is negative or less than 3 then it will display message "Invalid Input". You need Find the sum of highest & lowest numbers among the inputs.

```
public static int sumOfMinMax(int[] numbers) {  
    int min = Integer.MAX_VALUE;  
    int max = Integer.MIN_VALUE;  
  
    for (int num: numbers) {  
        if (num < min) {  
            min = num;  
        }  
        if (num > max) {  
            max = num;  
        }  
    }  
    return min + max;  
}
```

Problem Statement II

Write a Program that will accept positive value of n to generate n number series.

Example

Input: 5

Output: 2 6 12 20 30

Input: 7

Output: 2 6 12 20 30 42 56

Input: 5 Output: Wrong input

```
public static void generateSeries(int n) {  
    int prev = 0;  
    for (int i = 1; i <= n; i++) {  
        int value = prev + (i * 2);  
        System.out.print(value + " ");  
        prev = value;  
    }  
}
```

Problem Statement III

Write a Java program that will accept a number as input. If the number is negative or less than 11 then it will display message "Invalid Input". Find all palindrome numbers starting from 11 up to that number.

Eg:

Input: 125

Output: 11 22 33 44 55 66 77 88 99 101 111 121

```
public static void printPalindromes(int limit) {
    for (int i = 11; i <= limit; i++) {
        if (isPalindrome(i)) {
            System.out.print(i + " ");
        }
    }
}

public static boolean isPalindrome(int number) {
    int reversedNumber = 0;
    int originalNumber = number;

    while (number != 0) {
        int remainder = number % 10;
        reversedNumber = reversedNumber * 10 + remainder;
        number /= 10;
    }

    return originalNumber == reversedNumber;
}
```