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https://bitbucket.org/mkhaliki/assignment-4-e7.5-and-p6.5/src/master/

Instructions to run:
PrimeGenerator.java must be in same project as P6_5.java

```java
import java.util.Scanner;


public class E7_5 {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        System.out.println("Enter a string of integers: ");
        String entries = in.nextLine();

        if (entries.length() == 0) System.exit( status: 0);          // If user does not enter a number, exit program

        String numbers[] = entries.split( regex: " ");
        int alternating_sum = Integer.parseInt(numbers[0]);
        System.out.print(alternating_sum);

        for (int i = 1; i < numbers.length; i++) {
            if (i % 2 == 0) {
                System.out.print(" + ");
                alternating_sum += Integer.parseInt(numbers[i]);
            }
            else {
                System.out.print(" - ");
                alternating_sum -= Integer.parseInt(numbers[i]);
            }
            System.out.print(numbers[i]);
        }
        System.out.println(" = " + alternating_sum);
    }
}
```

E7_5 > main()

Run: E7_5 ×

```
/Library/Java/JavaVirtualMachines/jdk1.8.0_91.jdk/Contents/Home/bin/java ... <1 internal call>
Enter a string of integers:
1 4 9 16 9 7 4 9 11
1 - 4 + 9 - 16 + 9 - 7 + 4 - 9 + 11 = -2

Process finished with exit code 0
```

▶ 4: Run   ≡ 6: TODO   Terminal

E7_5.java   P6_5.java   PrimeGenerator.java

```java
import java.util.Scanner;

public class P6_5 {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        System.out.println("Enter an integer: ");
        int integerInput = in.nextInt();

        PrimeGenerator prime = new PrimeGenerator(integerInput);
        int output = prime.nextPrime();
        while (output != 0) {
            System.out.print(output + " ");
            output = prime.nextPrime();
        }
    }
}
```

P6_5

Run: P6_5

```
/Library/Java/JavaVirtualMachines/jdk1.8.0_91.jdk/Contents/Home/bin/java ... <1 internal call>
Enter an integer:
20
2 3 5 7 11 13 17 19
Process finished with exit code 0
```

4: Run   6: TODO   Terminal

All files are up-to-date (2 minutes ago)   16:2   LF   UTF-8   4 spaces