Fibonacci numbers in Java

The Fibonacci numbers are the numbers in the following integer sequence.

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, ……..

In mathematical terms, the sequence F_n of Fibonacci numbers is defined by the recurrence relation

$$F_n = F_{n-1} + F_{n-2}$$

with seed values

$F_0 = 0$ and $F_1 = 1$.

Given a number n, print first n Fibonacci Numbers.

Examples:

Input : n = 2
Output : 0 1

Input : n = 9
Output : 0 1 1 2 3 5 8 13 21

```java
// Java Program to print first n fibonacci numbers
import java.util.Scanner;

class GfG {
    public static void main(String[] args) {
        int n = 9;
```

```java
        int a = 0, b = 1;
        if (n == 1) {
            System.out.print(a);
        }
        else if (n == 2) {
            System.out.print(a + " " + b);
        }
        else {
            System.out.print(a + " " + b + " ");
            for (int i = 3; i <= n; i++) {
                int c = a + b;
                System.out.print(c + " ");
                a = b;
                b = c;
            }
        }
    }
}
```

Output

0 1 1 2 3 5 8 13 21