```java
public        greatestCommonDivisor(int number1, int number2) {

        if (number1 < number2) {
            temp = number1;
            number1 = number2;
            number2 = temp;
        }

                     number1 % number2;
        if (temp == 0) {
            number1 = number2;
            number2 = temp;
        }
    }

    return number2;
}
```