```
public static int greatestCommonDivisor(int number1, int number2) {
int temp = number1;
while (temp != 0) {
    if (number1 < number2) {</pre>
        temp = number1;
        number1 = number2;
        number2 = temp;
    temp = number1 % number2;
    if (temp != 0) {
        number1 = number2;
        number2 = temp;
    }
return number2;
```