

```
public static int greatestCommonDivisor(int number1, int number2) {
   int temp = number1;

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

return number2;</pre>
```