

```

public class Solution {
    public static void main (String args[])
    {
        int number = 0;
        int i = 1;
        while(NumberOfDivisors(number) < 500){
            number += i;
            i++;
        }
        System.out.println(number);
    }

    public static int NumberOfDivisors(int number) {
        int nod = 0;
        int sqrt = (int) Math.sqrt(number);

        for(int i = 1; i <= sqrt; i++){
            if(number % i == 0){
                nod += 2;
            }
        }
        //Correction if the number is a perfect square
        if (sqrt * sqrt == number) {
            nod--;
        }

        return nod;
    }
}

```