Lec-6

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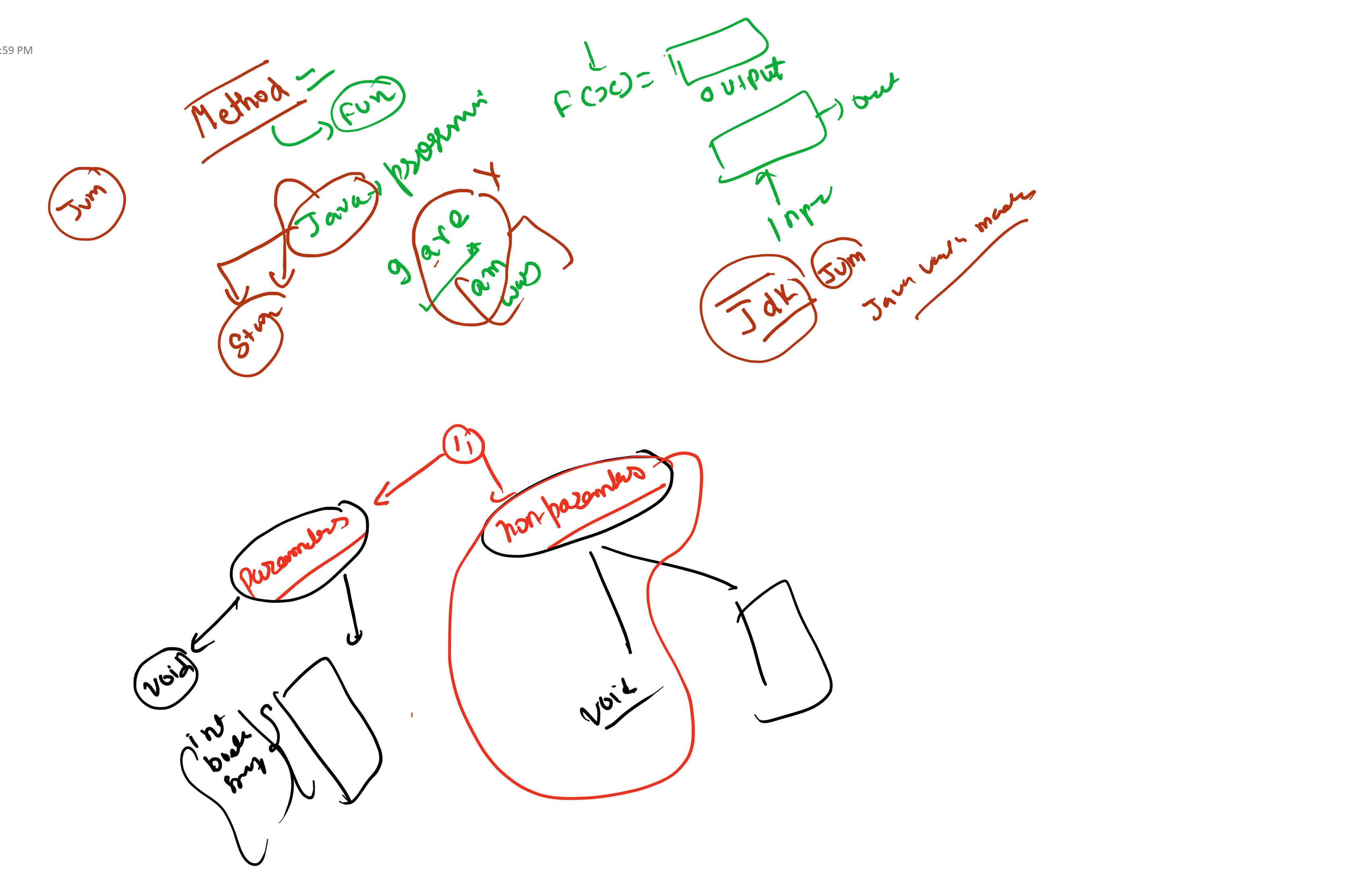
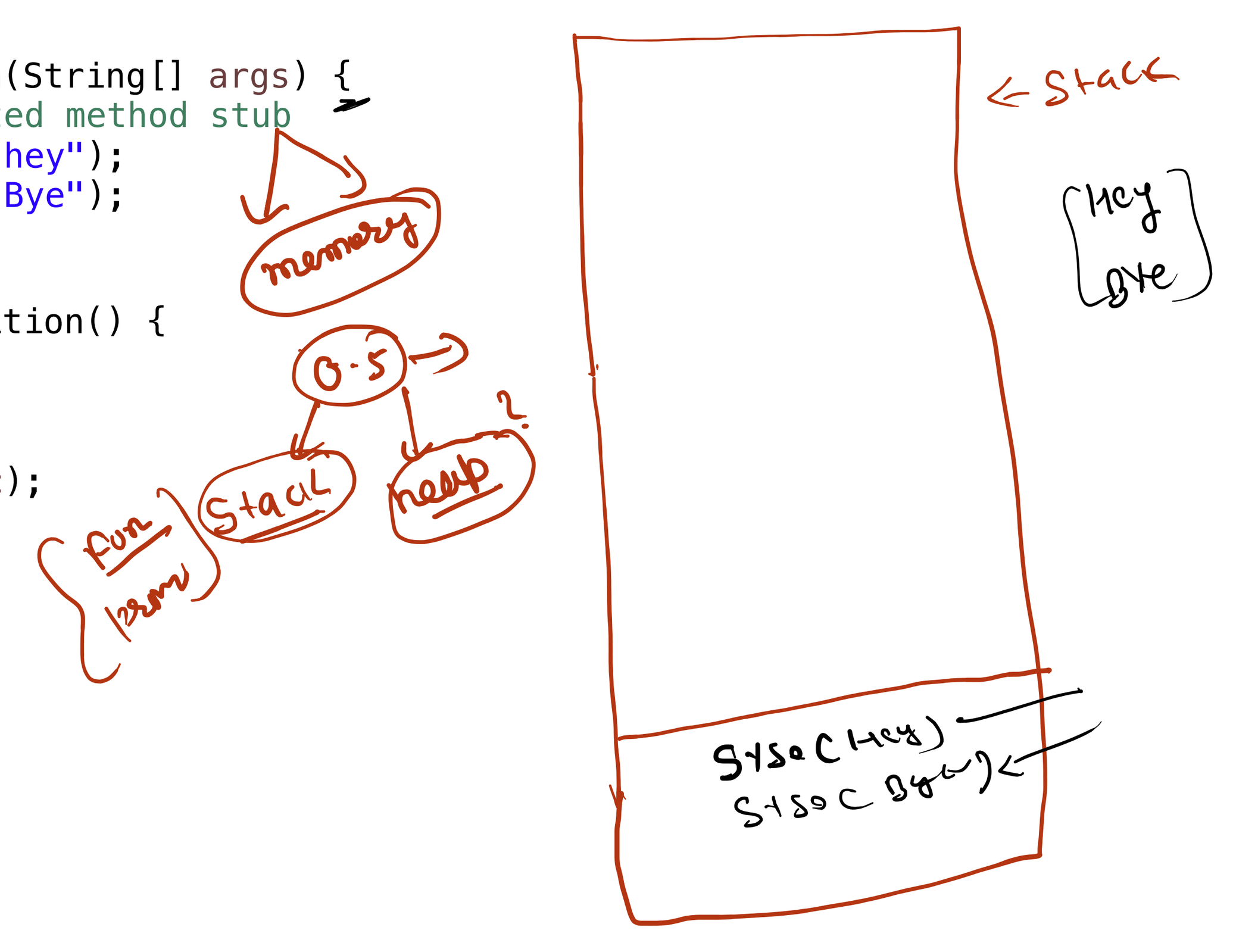
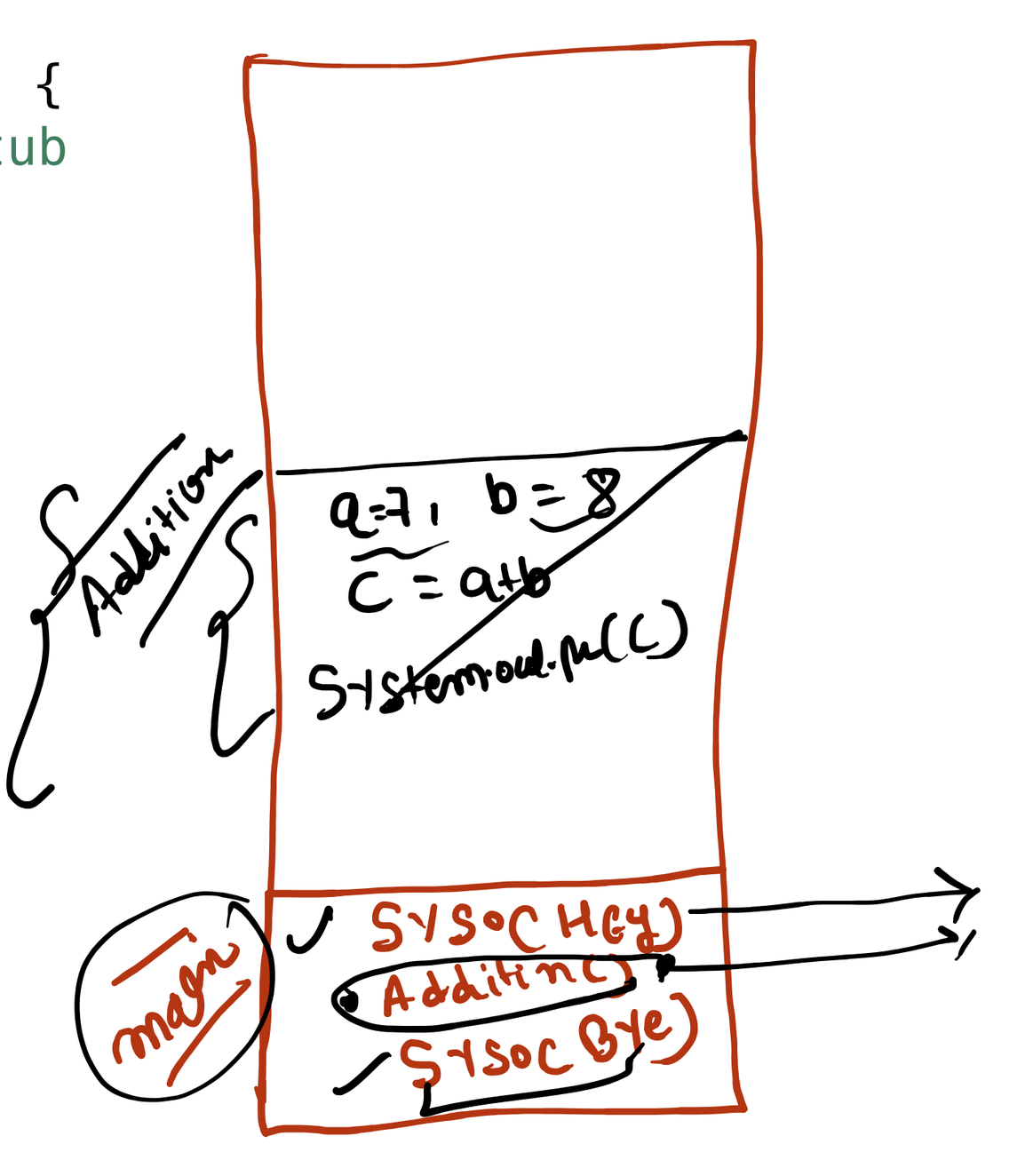


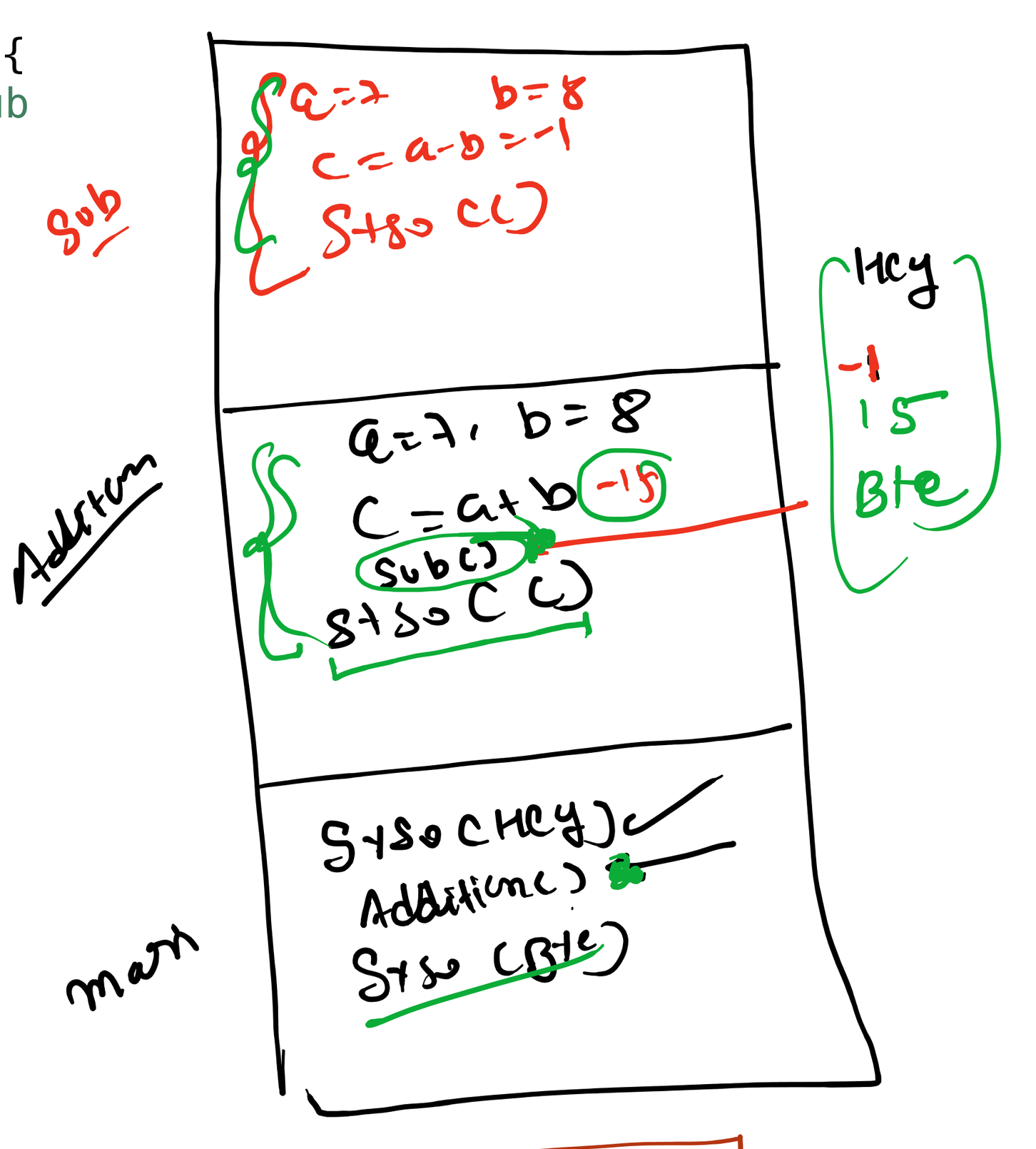
```java
public static void main(String[] args) {
    // TODO Auto-generated method stub
    System.out.println("hey");
    System.out.println("Bye");
}

public static void Addition() {
    int a = 7;
    int b = 8;
    int c = a + b;
    System.out.println(c);
}
```



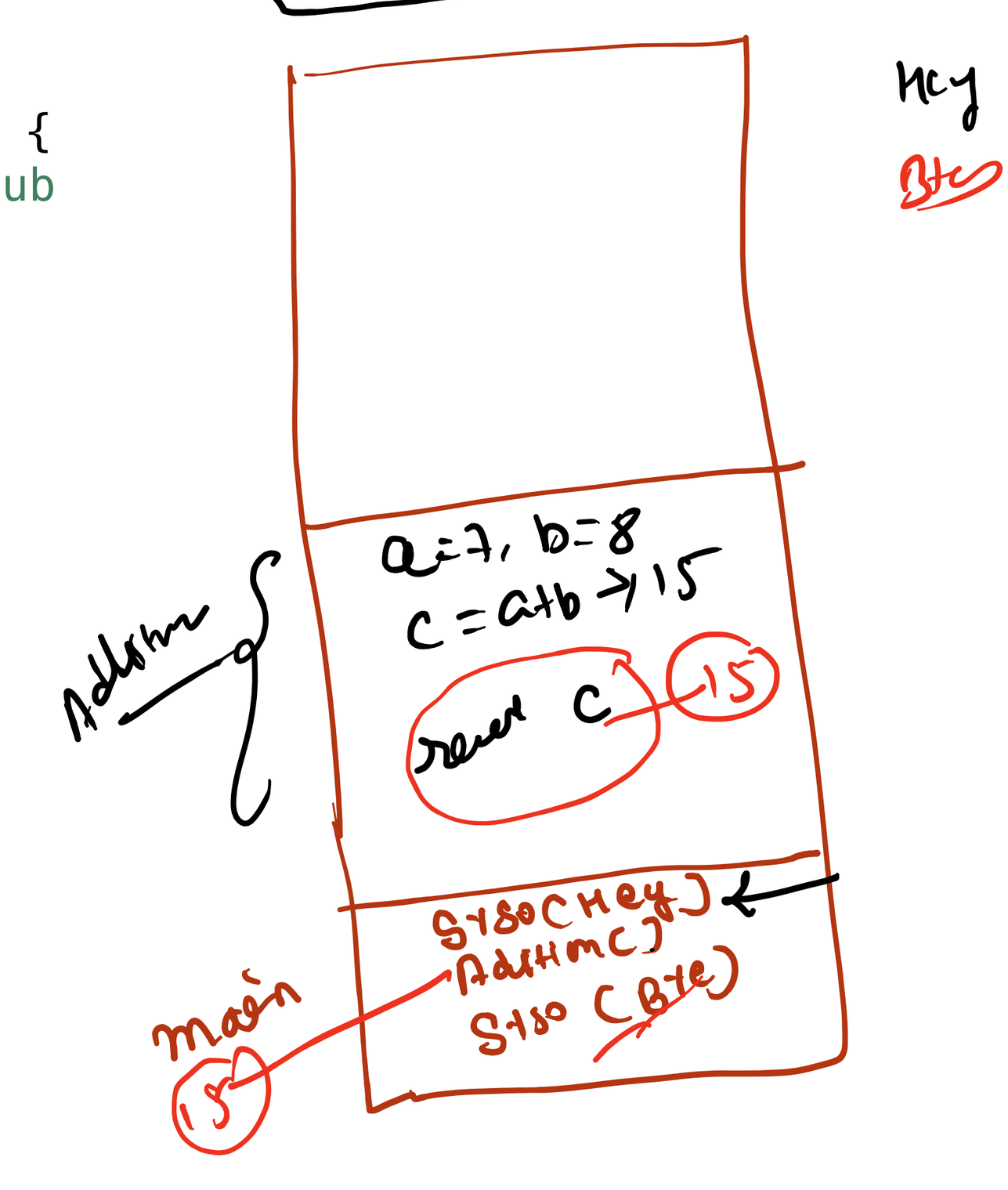
```java
public static void main(String[] args) {
    // TODO Auto-generated method stub
    System.out.println("hey");
    Addition();
    System.out.println("Bye");
}

public static void Addition() {
    int a = 7;
    int b = 8;
    int c = a + b;
    System.out.println(c);
}
```



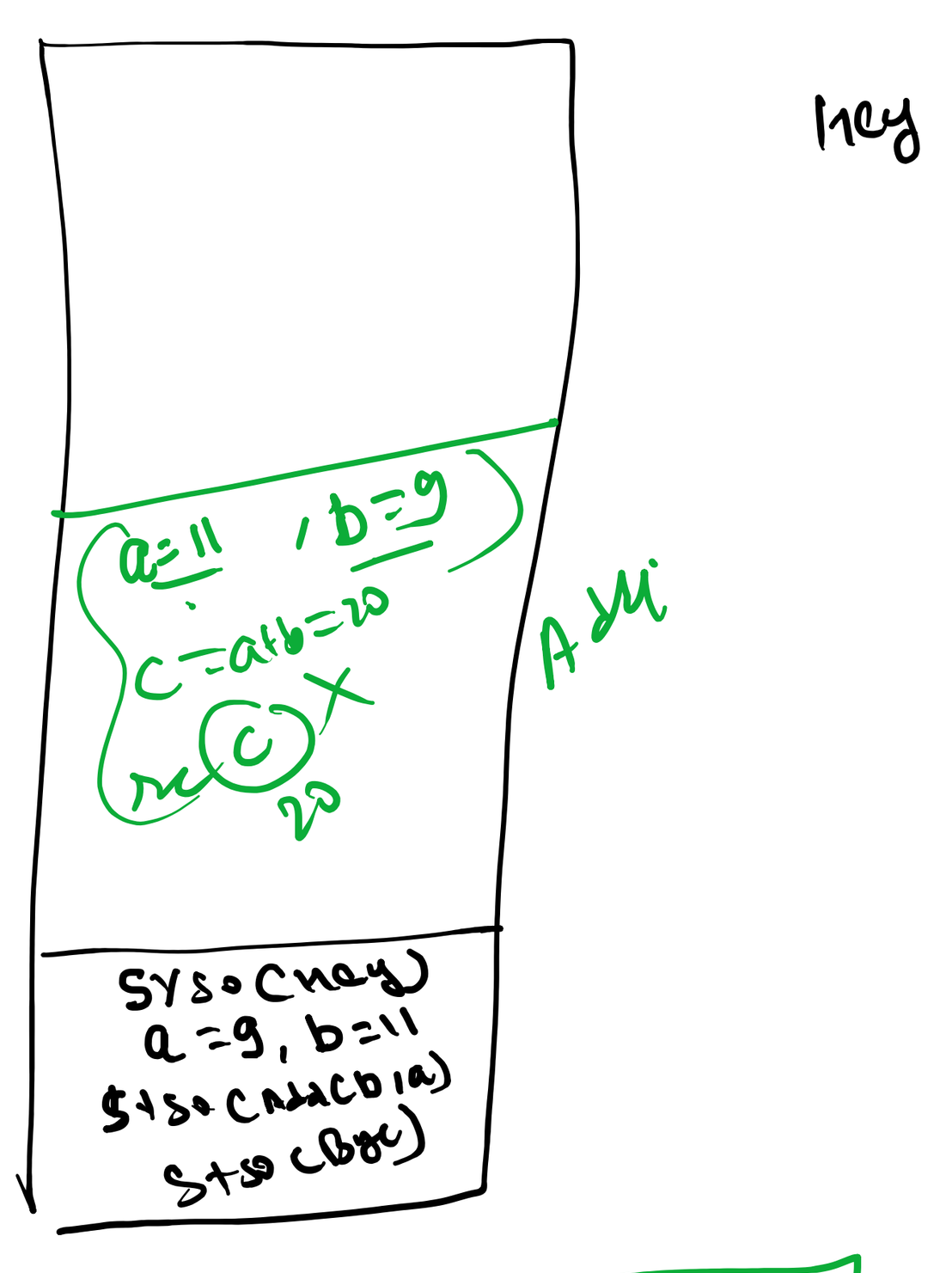
```java
public static void main(String[] args) {
    // TODO Auto-generated method stub
    System.out.println("hey");
    Addition();
    System.out.println("Bye");
}

public static void Addition() {
    int a = 7;
    int b = 8;
    int c = a + b;
    Sub();
    System.out.println(c);
}

public static void Sub() {
    int a = 7;
    int b = 8;
    int c = a - b;
    System.out.println(c);
}
```



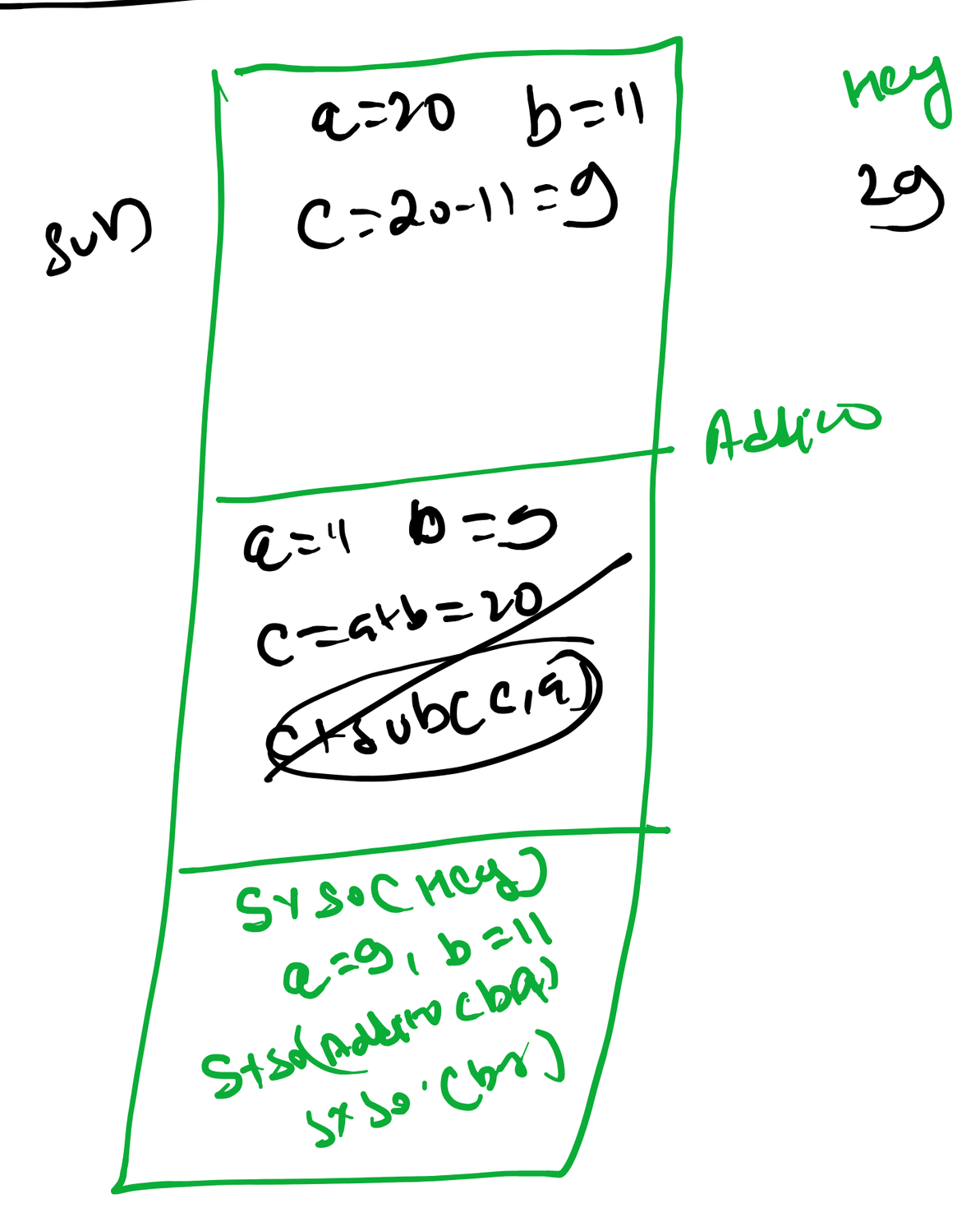
```java
public static void main(String[] args) {
    // TODO Auto-generated method stub
    System.out.println("hey");
    Addition();
    System.out.println("Bye");
}

public static int Addition() {
    int a = 7;
    int b = 8;
    int c = a + b;
    return c;
}
```



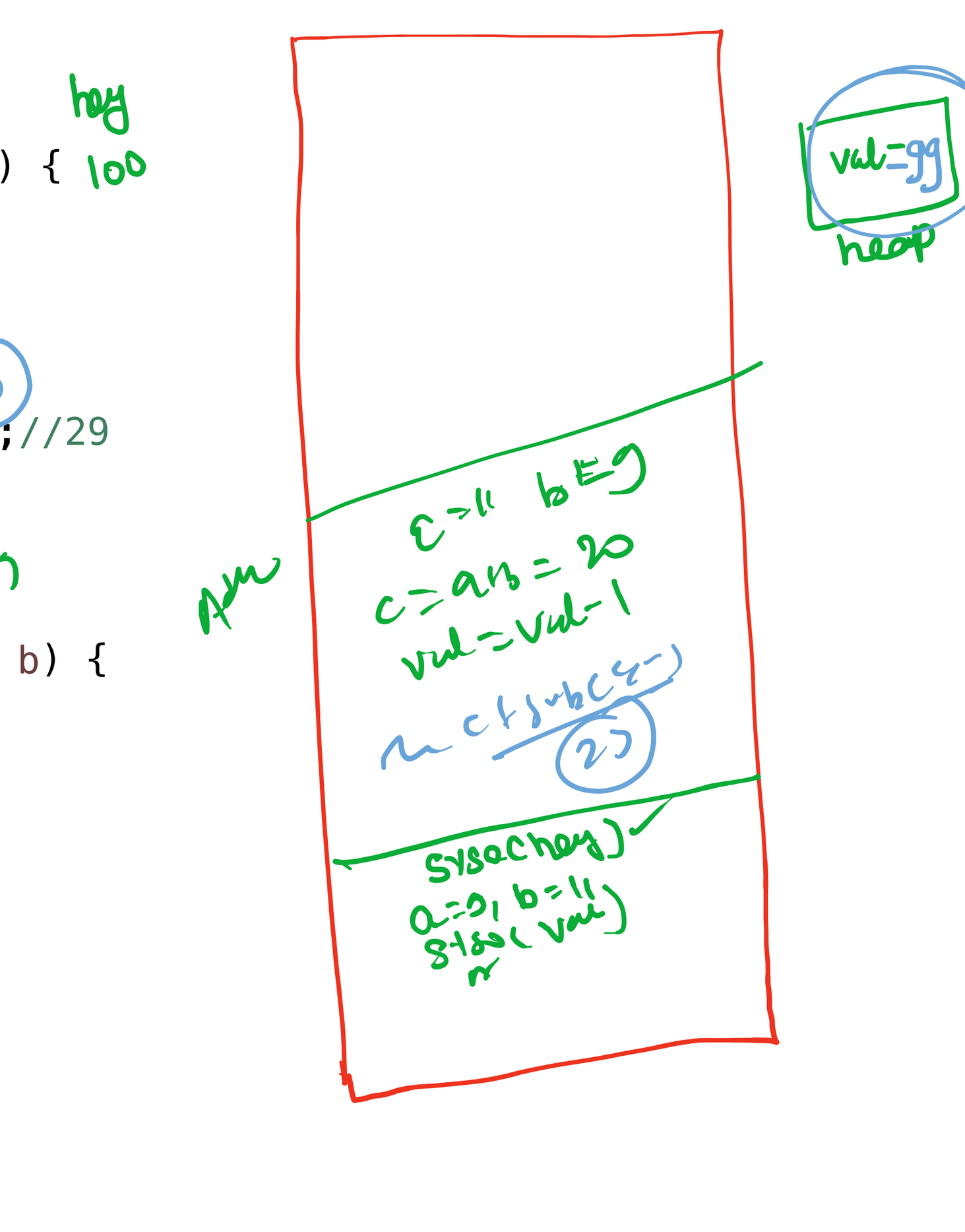
```java
public static void main(String[] args) {
    // TODO Auto-generated method stub
    System.out.println("hey");
    int a = 9;
    int b = 11;
    System.out.println(Addition(b, a));
    System.out.println("Bye");
}

public static int Addition(int a, int b) {
    int c = a + b;
    return c;
}
```

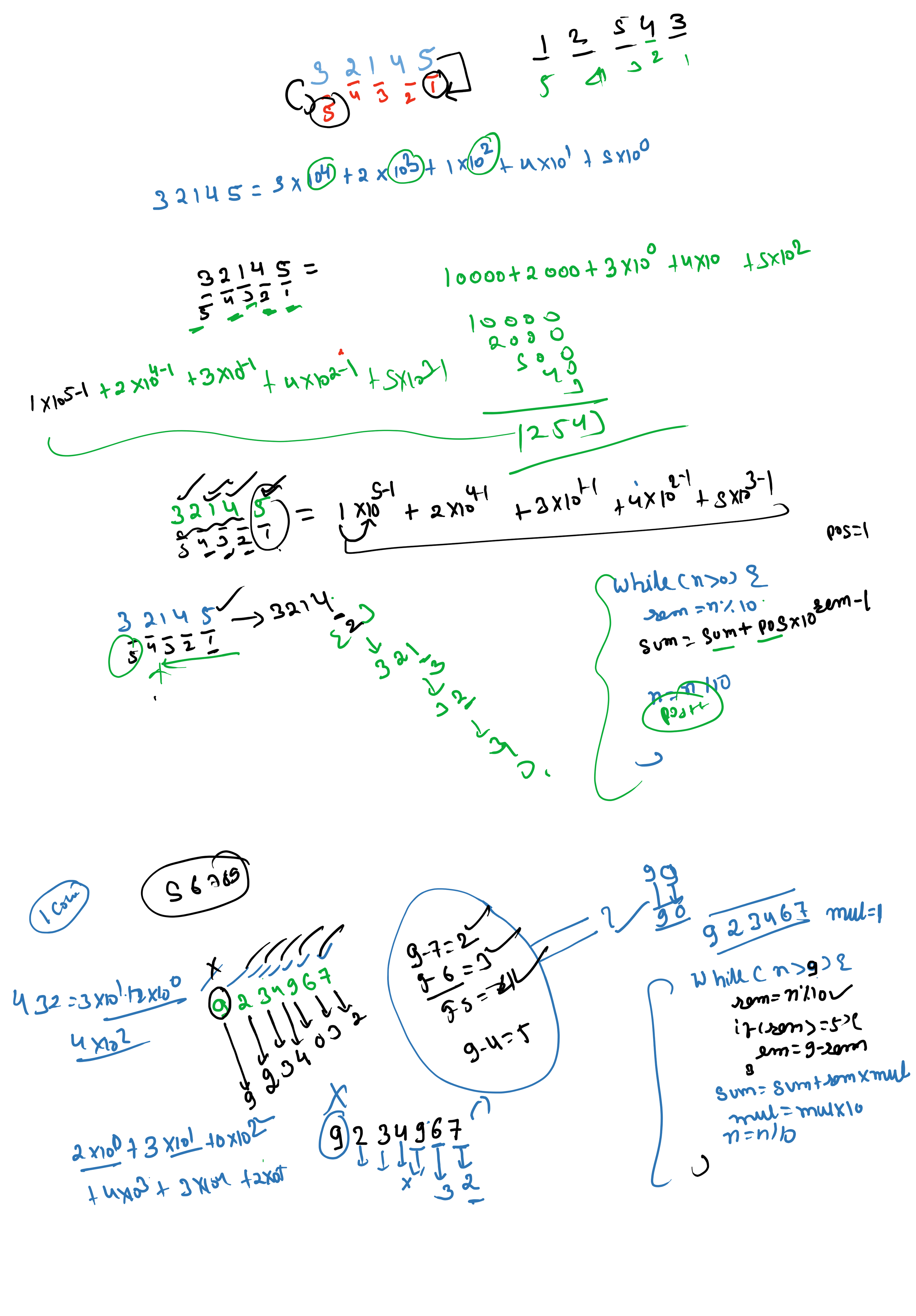


```java
public static void main(String[] args) {
    // TODO Auto-generated method stub
    System.out.println("hey");
    int a = 9;
    int b = 11;
    System.out.println(Addition(b, a));
    System.out.println("Bye");
}

public static int Addition(int a, int b) {
    int c = a + b;
    return c + sub(c, a);
}

public static int sub(int a, int b) {
    int c = a - b;
    return c;
}
```



```java
public class Fun_Demo_4 {
    static int val = 100;

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        System.out.println("hey");
        int a = 9;
        int b = 11;
        System.out.println(val);//100
        System.out.println(Addition(b, a));//29
        System.out.println(val);//?
        System.out.println("Bye");
    }

    public static int Addition(int a, int b) {
        int c = a + b;
        val = val - 1;
        return c + sub(c, a);
    }

    public static int sub(int a, int b) {
        int c = a - b;
        return c;
    }
}
```





```java
import java.util.Scanner;

public class Chewbacca_Number {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        long n = sc.nextLong();
        System.out.println(Chewbacca(n));
    }

    public static long Chewbacca(long n) {
        long sum = 0;
        long mul = 1;
        while (n > 9) {
            long rem = n % 10;
            if (rem >= 5) {
                rem = 9 - rem;
            }
            sum = sum + rem * mul;
            mul = mul * 10;
            n = n / 10;
        }
        // last digit
        if (n <= 4 || n == 9) {
            sum = sum + n * mul;
        } else {
            sum = sum + (9 - n) * mul;
        }
        return sum;
    }
}
```