

```
// 1
```

```
import java.util.Scanner;
```

```
public class PopaMaximian_ForWhileDoWhile {
    public static void main(String [] args){

        int n, i = 0, sum = 0, med, count = 0;

        Scanner num = new Scanner(System.in);
        System.out.print("Enter some numbers: ");
        n = num.nextInt();

        sum += n;
        if(n > 1000)
        {
            System.out.println("The number is higher than 1000!");
        }
        else
        {
            while(sum <= 1000)
            {
                n = num.nextInt();
                sum += n;
                count++;
            }

            if(sum >= 1000)
            {
                sum = sum - n;
            }

            num.close();

            med = sum/count;
            System.out.println("\n" + med + "\n");
        }
    }
}
```

```
// 2
```

```
public class PopaMaximian_ForWhileDoWhile {
    public static void main(String [] args){

        int i = 5;

        do
        {
            int j = 1;
            do
            {
                System.out.printf("%2d", i);
                j++;
            }while(j <= i);
            System.out.println();
            i--;
        } while (1 <= i);
    }
}
```

```

    }
}

// 3

import java.util.Scanner;

public class PopaMaximian_ForWhileDoWhile {
    public static void main(String [] args){

        int n, n1, i, s1 = 0, s2 = 0, p = 1, sum2 = 0;

        Scanner num = new Scanner(System.in);
        System.out.print("Enter n: ");
        n = num.nextInt();
        num.close();

        n1 = n;

        for(i = 1; i <= n; i++)
        {
            p = (int) Math.pow(i, 3);
            s1 += p;
        }

        for(i = 1; i <= n1; i++)
        {
            sum2 += i;
        }
        s2 = (int) Math.pow(sum2, 2);

        if(s1 == s2)
            System.out.println("S1 and S2 are equal.");
        else if(s1 < s2)
            System.out.println("S2 is bigger than S1");
        else
            System.out.println("S1 is bigger than S2");

    }
}

```