

課題 0101 Sum1to10

```
package j1.remedial01;

public class Sum1to10 {
    public static void main(String[] args) {
        int sum = 0;
        for(int i=1; i<=10; i++){
            sum += i;
        }
        System.out.println("1 から 10 までの和 = " + sum);
    }
}
```

課題 0102 Prod1to10

```
package j1.remedial01;

public class Prod1to10 {
    public static void main(String[] args) {
        int prod = 1;
        for(int i=1; i<=10; i++){
            prod *= i;
        }
        System.out.println("1 から 10 までの積 = " + prod);
    }
}
```

課題 0103 SumSqlto10

```
package j1.remedial01;

public class SumSqlto10 {
    public static void main(String[] args) {
        int sum = 0;
        for(int i=1; i<=10; i++){
            sum += i*i;
        }
        System.out.println("1 から 10 までの平方の和 = " + sum);
        System.out.println("公式を使うと  $10*(10+1)*(10*2+1)/6 =$ "
            +  $10*(10+1)*(10*2+1)/6$ );
    }
}
```

課題 0104 Harmonic1to10

```
package j1.remedial01;

public class Harmonic1to1000 {
    public static void main(String[] args) {
        double sum = 0.0;
        for(int i=1; i<=1000; i++){
            sum += 1.0/i;
        }
        System.out.println("1 から 1000 までの逆数の和 = " + sum);
        System.out.println("区分求積法による確認: "
            + Math.log(1000+1)+" < "+sum+ "<" +(Math.log(1000)+1));
    }
}
```

課題 0105 Print100

```
package j1.remedial01;

public class Print100 {
    public static void main(String[] args) {
        for(int i=1; i<=100; i++){
            if(i%10!=0)
                System.out.print(i+" ");
            else
                System.out.println(i);
        }
    }
}
```

課題 0106 Print100groupedinNs

```
package j1.remedial01;
import java.io.*;

public class Print100groupedinNs {
    public static void main(String[] args) throws IOException {
        BufferedReader reader =
            new BufferedReader(new InputStreamReader(System.in));

        System.out.print(
            "1 から 100 までの数を 1 行に n 個ずつ表示します。n を入力: ");
        int n = Integer.parseInt(reader.readLine());

        for(int i=1; i<=100; i++){
            if(i%n!=0)
                System.out.print(i+" ");
            else
                System.out.println(i);
        }
    }
}
```

課題 0107 Average

```
package j1.remedial01;
import java.io.*;

public class Average {
    public static void main(String[] args) throws IOException {
        BufferedReader reader =
            new BufferedReader(new InputStreamReader(System.in));
        System.out.print("データの個数はいくつですか: ");
        int n = Integer.parseInt(reader.readLine());
        int sum = 0;
        for(int i=0; i<n; i++){
            System.out.print(i+"番目の整数を入力: ");
            int x = Integer.parseInt(reader.readLine());
            sum += x;
        }
        System.out.println("平均 = " + (double)sum/n);
    }
}
```

課題 0108 MaxMin

```
package jl.remedial01;
import java.io.*;

public class MaxMin {
    public static void main(String[] args) throws IOException {
        BufferedReader reader =
            new BufferedReader(new InputStreamReader(System.in));
        System.out.print("データの個数はいくつですか: ");
        int n = Integer.parseInt(reader.readLine());
        int max = Integer.MIN_VALUE;
        int min = Integer.MAX_VALUE;

        for(int i=0; i<n; i++){
            System.out.print(i+"番目の整数を入力: ");
            int x = Integer.parseInt(reader.readLine());
            if(x>max)
                max = x;
            if(x<min)
                min = x;
        }
        System.out.println("最大 = " + max);
        System.out.println("最小 = " + min);
    }
}
```

課題 0109 MaxMinAt

```
package j1.remedial01;
import java.io.*;

public class MaxMinAt {
    public static void main(String[] args) throws IOException {
        BufferedReader reader =
            new BufferedReader(new InputStreamReader(System.in));
        System.out.print("データの個数はいくつですか: ");
        int n = Integer.parseInt(reader.readLine());
        int max = Integer.MIN_VALUE;
        int min = Integer.MAX_VALUE;
        int maxAt = 0;
        int minAt = 0;

        for(int i=0; i<n; i++){
            System.out.print(i+"番目の整数を入力: ");
            int x = Integer.parseInt(reader.readLine());
            if(x>max){
                max = x;
                maxAt = i;
            }
            if(x<min){
                min = x;
                minAt = i;
            }
        }
        System.out.println("最大 = " + max + "(" + maxAt + "番目)");
        System.out.println("最小 = " + min + "(" + minAt + "番目)");
    }
}
```

課題 0110 Parabolal

```
package j1.remedial01;

public class Parabolal {
    public static void main(String[] args) {
        for(int i=-5; i<=5; i++){
            System.out.print("|");
            for(int j=0; j<i*i; j++){
                System.out.print("*");
            }
            System.out.println("");
        }
    }
}
```

課題 0111 Parabola2

出力結果。ちょっと縦長ですが。

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