Exercise 1

(a) The program below sums up 2 integers passed as command line arguments.

```
public class Sum2Integers {
    public static void main(String [] args) {
        int total=0;
        total=Integer.parseInt(args[0])+Integer.parseInt(args[1]);
        System.out.println("The sum is " + total);
    }
}
```

The user executes the program as below.

```
c:\>  java Sum2Integers 11 34
```

Write down the values of the followings:

`args.length` _____

`args[0]` _____

`args[1]` _____

(b) The program fails when the user does not provide enough command line arguments. Add program statements to `Sum2Integers` so that it checks whether the user has actually entered 2 command line arguments. If not, issue the warning message as shown below:

```
c:\>  java Sum2Integers
Usage: java Sum2Integers <num1> <num2>
```

(c) Based on the program `Sum2Integers`, write a program `SumIntegers` that sums up an arbitrary number of integers passed as command line arguments. Sample executions are shown below.

```
c:\>  java SumIntegers 5 7 12
5 + 7 + 12 = 24
c:\>  java SumIntegers 1 3 4 8 11
1 + 3 + 4 + 8 + 11 = 27
c:\>  java SumIntegers
No input!
```

END.