Long Division

The output of the following code is not 1000, why?

```java
public class LongDivision {
    public static void main(String[] args) {
        final long MICROS_PER_DAY = 24 * 60 * 60 * 1000 * 1000;
        final long MILLIS_PER_DAY = 24 * 60 * 60 * 1000;
        System.out.println(MICROS_PER_DAY / MILLIS_PER_DAY);
    }
}
```

> ⌄ Click here to expand...
>
> Bug: **integer** overflow
>
> Fix:
>
> ```java
> final long MICROS_PER_DAY = 24L * 60 * 60 * 1000 * 1000;
> final long MILLIS_PER_DAY = 24L * 60 * 60 * 1000;
> ```