# Lab: Data Types, Variables and Methods

Problems for exercises and homework for the [“Programming Fundamentals Extended” course @ SoftUni](https://softuni.bg/courses/programming-fundamentals).

## Integer Types

Write program that receives **4 integers** and prints them, on a **single line**, separated by **spaces**.

### Constraints

* The **1st** one will be in **range [0, 255]**.
* The **2nd** one will be in **range [0, 231]**.
* The **3rd** one will be in **range [-231, 231 - 1]**.
* The **4th** one will be in **range [-264, 264 – 1]**.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 200  2000000000  -2140000000  18241240004204 | 200 2000000000 -2140000000 18241240004204 |

## Real Number Types

Write program that **receives 2 lines of input**.

* On the **1st** **line** you will receive **N** – the **count** of **digits** after the **decimal point**.
* On the **2nd** **line** you will receive a **number**.

### Constraints

* N will be in **range [0, 28]**.
* The number will be in **range [-264, 264]**.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 16  10.1234567891234567 | 10.1234567891234567 |

## Big Power

Write program that calculates **nn** (**n** powered by itself) for very big **n** (e.g. **1000**)

**Hint**: Look for a **data type** that can hold **really** **big numbers**.

### Constraints

* **N** will be a valid **integer** in **range [0, 1000]**.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 69 | 7596040312163297274222442578208043236112279041839441308045514203595638030283176823539793587591372230230103933110810192201741429 |