Java - Variables

William Bombardelli

Schweizerschule Mexiko, Ciudad de México, Mexico
E-Mail...

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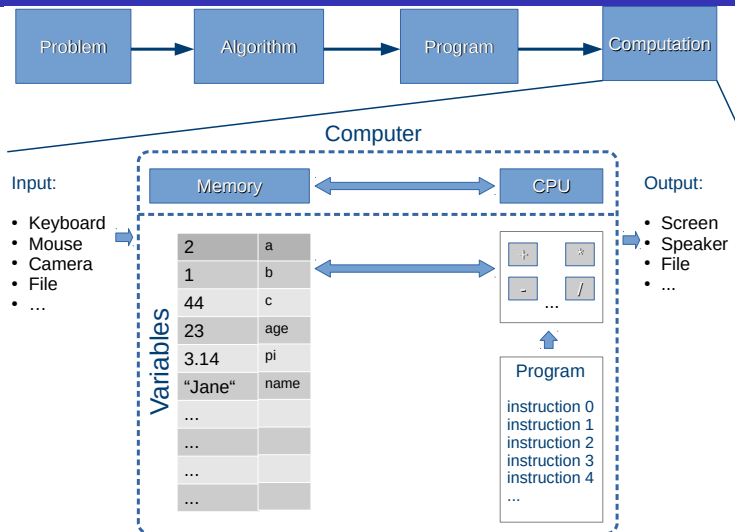
Organization

Model of Computation

Variables in Java

```java
int a;
a = 10;
int b;
b = 1;
int c;
c = a + b;
System.out.println(c);
```

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Variables in Java with Input

```
Scanner reader = new Scanner(System.in);
int a = reader.nextInt();
int b = 1;
int c = a + b;
System.out.println(c);
```

W. Bombardelli

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Exercises

- Write a program in Java that reads two integer values from
  the keyboard and prints their sum, difference, product and
  division at the screen/ console.
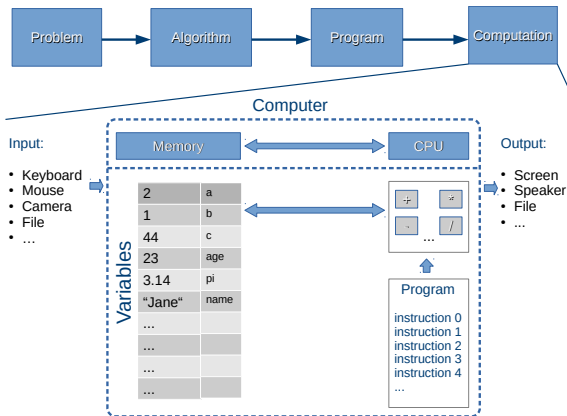
Exercises

- Write a program in Java that reads two integer values from the keyboard and prints their sum, difference, product and division at the screen/ console.

- Write a program in Java that calculates and prints the area A of a triangle after reading its base b and height h from the user's keyboard. Remember: $A = \frac{b \times h}{2}$

Exercises

- Write a program in Java that reads two integer values from the keyboard and prints their sum, difference, product and division at the screen/ console.
- Write a program in Java that calculates and prints the area A of a triangle after reading its base b and height h from the user's keyboard. Remember: $A = \frac{b \times h}{2}$
- Write a program in Java that calculates and prints the area A of a triangle with side lengths a, b and c. For that you can use the Heron's formula $A = \sqrt{s \cdot (s - a) \cdot (s - b) \cdot (s - c)}$ where $s = \frac{a+b+c}{2}$ is the semi-perimeter of the triangle.

Summary

- Next Week: Data Types

References

- W3C Tutorial:
    - https://www.w3schools.com/java/java_variables.asp
    - https://www.w3schools.com/java/java_operators.asp
    - https://www.w3schools.com/java/java_math.asp
- Exercises:
  https://www.w3schools.com/java/exercise.asp
    - Java Variables
    - Java Operators