Java - Arrays

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https://github.com/wbombardellis/java-unterricht

19 February 2020

Organization

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Array

Arrays allow you to store several values in one variable

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- Write a program that reads the grades of ten students and print at the end the average (arithmetic mean) grade and how many students passed ($grade \geq 7$).

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```
double[] grades = new double[10];
for (int i = 0; i < 10; i++) {
    grades[i] = reader.nextDouble();
}
```

Exercises

1. …

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Array Grammar Rules

Array Declaration:
$\langle Type \rangle [] \langle Varname \rangle = new \langle Type \rangle [SIZE];$

Array Assignment Statement:
$\langle Varname \rangle [POSITION] = \langle Expression \rangle;$
Where $POSITION \in [0, SIZE - 1]$.

Exercises

1. Write a program that reads a word from the keyboard and prints it reversed. Example: Notebook → koobetoN
2. Write a program that tells whether a word is a palindrome or not. A palindrome is a word that reads the same backward as forward. Example: level, radar.

Summary

- Arrays allow you to store several values in one single variable.
- Next Lesson: Methods

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References

- W3C Tutorial:
    - https://www.w3schools.com/java/java_arrays.asp
- Exercises:
  https://www.w3schools.com/java/exercise.asp
    - Java Arrays