Introduction to Computer Science
Lesson 12

BSc in Computer Science
University of New York, Tirana

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Lab session: programming in Java

- Simple algorithms
- Implemented in Java

While statement

- Exercise 1
  - The program should continue to ask for the password until the password is right.

do…while statement

- Exercise 2
  - The program should continue to ask for the password until the password is right.

do…while statement

- Exercise 3
  - Continue to enter numbers until the sum is greater than 100.

Nested loops

- Exercise 4
  - For the first 100 numbers print the product a x b.

Nested loops

- Exercise 5
    - For the first 100 numbers print the product a x b only if it is multiple of 5.

Nested loops and arrays

- Exercise 6
  - Given two arrays of numbers, find the elements in common for both arrays.

- Hints
  - First populate the arrays with numbers
  - Scan both arrays for common elements
    - Check if an element of the first array is also present in the second array.

Nested loops and arrays

- Exercise 7
  - Given two arrays of numbers, check if the arrays are the same.

- Hints
  - First populate the arrays with numbers
  - Scan both arrays for common elements
    - Check if an element of the first array in the same position is different from the element in the second array.

Arrays and Methods

- Exercise 8
- Copy an array of characters to another specifying:
  - Starting index of the first array
  - Starting index of the second array
  - Number of elements to copy

Arrays and switch statement

- Exercise 9
- Count frequency of numbers in an array

Arrays and user defined size

- Exercise 10
  - Specify the array size from command line
  - Enter elements from command line
  - Check whether the elements you have entered are in increasing order

End of Lesson 12

- Readings
  - Chapter 5