

Saturday, 04
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Crux

Lecture -3

Programming Fundamentals -2
Functions, Arrays & Strings

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Connectors? Functions

Why Functions?

Variables and their Scope

Pass by Value

How function calling works

Arrays

- How to declare arrays?
- How are arrays stored in memory?
- How to access, update etc?

Lets write some code

- Take an integer array input from the user
- Print out sum of an array

Break

Your turn

- Print out the largest element in the array
- Linear Search
- Reverse an array

Passing arrays as function parameters

Lets write some code

- Bubble Sort

Your turn

- Selection Sort

Pointers

- Don't have to worry about this in java

Strings in Java

1. `charAt`
2. `Substring`
3. `Concat`
4. `indexOf`
5. `startsWith`
6. `Immutable`

Lets write some code

- Print out all the characters of a String in different lines
- Check if a given String is Palindrome
- Write code to count number of characters, lines and words from the input. Input terminates by a '\$'.

Your turn

- Print all the substrings of a string
- Binary search in sorted array



Thank You !! ☺

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