

Sunday, 24 January
16

Crux

Lecture -5

Programming Fundamentals -3

Arrays

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- Selection Sort ?
- Insertion Sort ?

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

Multi dimensional arrays

- How to declare?
- How are they stored in memory?

Lets write some code

- Lets take input in to TwoD Array
- Lets print it out

Your turn

- Wave print
- Spiral print

BT : Greedy Pirates

A pirate ship captures a treasure of 1000 golden coins. The treasure has to be split among the 5 pirates: 1, 2, 3, 4, and 5 in order of rank. The pirates have the following important characteristics: infinitely smart, bloodthirsty, greedy. Starting with pirate 5 they can make a proposal how to split up the treasure. This proposal can either be accepted or the pirate is thrown overboard. A proposal is accepted if and only if a majority of the pirates agrees on it. **What proposal should pirate 5 make?**



Thank You !! 😊

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