

Wednesday, 9 March
16

Crux

Lecture -2

Programming Fundamentals -2

Arrays, Strings

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Assignment Doubts?

String Class 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
- 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
- Check if a given String is Palindrome
- Binary search in sorted array
- Merge two sorted arrays
- Find maximum sum path in two sorted arrays, you can change array at intersection points.

Multi dimensional arrays

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

Your turn

- Wave print
- Spiral print

BT: Circular Jail Cell

There is a circular jail with 100 cells numbered 1-100. Each cell has an inmate and the door is locked. One night the jailor gets drunk and starts running around the jail in circles. In his first round he opens each door. In his second round he visits every 2nd door (2,4,6---) and shuts the door. In the 3rd round he visits every 3rd door (3,6,9---) and if the door is shut he opens it, if it is open he shuts it. This continues for 100 rounds (i.e. 4,8,12 ---; 5,10,15 ---; ---; 49,98 etc.) and exhausted the jailor falls down.

How many prisoners found their doors open after 100 rounds?

5 Card Puzzle



Thank You!

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