Nucleus

Java Foundation & Data Structures

Lecture 5 : Arrays

Saturday, 15 September 2018

BT : Circular Jail Cells

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?**

Any doubts on assignment?

Arrays

Arrays

- How to declare arrays?

- How are arrays stored in memory?

- How to access, update etc.?

Passing Arrays as function parameters

Lets write some code

- Take an integer array input from the user

- Print out sum of an array

Your turn

- Print out the largest element in the array

- Reverse an array