

Folder Health Monitor

Write a Java program to monitor the health of folder called 'secured'. Monitoring includes folder size should not exceed 100 MB, archive older files to another folder called 'archive' if entire file size exceeds 100 MB but it should retain latest files (upto 100 MB) in 'secured' folder and also perform auto-delete of any executable (like .bat or .sh) which are placed in 'secured' folder.

Input:

- 1) Read files from 'temp' folder and write into 'secured' folder
- 2) Multiple files to be copied in 'secured' folder in window of every 2 minutes

Output:

- Monitoring Scheduler should run on 5 every minutes
- Performs above operation and shows report of current size of secured folder, any files archived, count of archived files if any and deleted file names if any.

Infra Asset Management

IT-ForAll is a software development company located in Bangalore and it has its own IT Infra Asset management team. To support their IT infra operation, build a system to track employee asset request (includes maintain of status of each request like in-progress, fulfilled, low inventory...), inventory of assets (like Laptops, Desktops, Monitors ...) and assets procurement.

Above mentioned system should calculate the expected fulfillment date of particular employee request based on available inventory and also should generate the new order to concern manufacturing company if inventory is low for particular asset.

Input:

- Employee asset request data in excel.
- Asset Inventory and Order tracking could be file based system

Output:

- Execution of program outcome should update the Employee asset request with expected fulfillment date, plus/minus in inventory and new order request to the manufacture for low inventory items.

Also while designing, address how system will be scalable if employee count grows and company located in multiple locations.

Sum problem

Input: $X=\{n_1, n_2, n_3, \dots, n(s)\}$, G

Output= various combinations of $X(n_1..n(s))$, where sum of $X(n) = G$