Lab 5 - Design Document

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# Banker.c

## Release\_res

This method will release the allocated resources after the end of the use

// print customer, release resources percentage

// show the release resources

//sleep

## Request res

This method will request the needed resources, for the program

// print customer , requesting resources

// print current resources

// check for the available resources, if the request resources is more than the available resources , return false,(unsafe state)

//Else, request resources using this constraints,

//if( isSafe is true) accept the request and get the resources

// //if( isSafe is False) deny the request and get the resources and dislocate the current resources for the current request

## isSafe

This method will determine if there are enough resources available to satisfy the need of the process. Returns true or false

// loops through all elements in the available array and compares them to the need array.

// if there is an element in the available array greater than its corresponding element in the need array, it will return true

// else return false

## customer

This method will act as the customer in the banking algorithm scenario

// The customer will request resources from the amount available to satisfy its needs

// If isSafe returns true, the customer will allocate the resources, use them, and release them

// if isSafe returns false, the customer will not allocate its resources and instead wait until there are sufficient resources available and move to the next customer (process)