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package ass6firstfit;

import java.util.Scanner;

public class ass6firstfit {
    static void firstFit(int blockSize[], int m, int processSize[], int n, int remblockSize[]) {
        int allocation[] = new int[n];
        for (int i = 0; i < allocation.length; i++) {
            allocation[i] = -1;
        }
        for (int i = 0; i < n; i++) {
            for (int j = 0; j < m; j++) {
                if (blockSize[j] >= processSize[i]) {
                    allocation[i] = j;
                    blockSize[j] -= processSize[i];
                    remblockSize[i] = blockSize[j];
                    break;
                }
            }
        }
        System.out.println("\nProcess No.\tProcess Size\tBlock no.\tRemaninig Block Size");
        for (int i = 0; i < n; i++) {
            System.out.print(" " + (i + 1) + "\t\t" + processSize[i] + "\t\t");
            if (allocation[i] != -1) {
                System.out.print((allocation[i] + 1) + "\t\t" + remblockSize[i]);
            } else {
                System.out.print("Not Allocated" + "\t" + remblockSize[i]);
            }
            System.out.println();
        }
    }

    public static void main(String[] args) {
        int m, n, num;
        Scanner in = new Scanner(System.in);
        System.out.print("Enter how many number of blocks you want to enter:");
        m = in.nextInt();
        int blockSize[] = new int[m];
        int remblockSize[] = new int[m];
        for (int i = 0; i < m; i++) {
            System.out.print("Enter Size of the block " + (i + 1) + " :");
            num = in.nextInt();
            blockSize[i] = num;
        }
        System.out.print("Enter how many number of process you want to enter:");
        n = in.nextInt();
        int processSize[] = new int[n];
        for (int i = 0; i < n; i++) {
            System.out.print("Enter Data " + (i + 1) + " :");
            num = in.nextInt();
            processSize[i] = num;
        }
        firstFit(blockSize, m, processSize, n, remblockSize);
        in.close();
    }
}

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}
/*
* Enter how many number of blocks you want to enter:5
Enter Data 1:100
Enter Data 2:500
Enter Data 3:200
Enter Data 4:300
Enter Data 5:600
Enter how many number of process you want to enter:4
Enter Data 1:212
Enter Data 2:417
Enter Data 3:112
Enter Data 4:426

```

Process No.	Process Size	Block no.	Remaninig Block Size
1	212	4	88
2	417	2	83
3	112	3	88
4	426	5	174

First fit = Allocate the first hole that is big enough

second fit = same as first page but start search always from last allocation hole

best fit = allocate the smallest bone that is big enough

worst fit = allocate the largest hole

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*/

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