# Program:

import java.util.Arrays;

import java.util.Scanner;

public class NextFit {

static void NextFit(int blockSize[], int m, int processSize[], int n,int remblockSize[]) {

int allocation[] = new int[n], j = 0;

Arrays.fill(allocation, -1);

for (int i = 0; i < n; i++) {

int count=0;

while (count<m){

count++;

if (blockSize[j] >= processSize[i]) {

allocation[i] = j;

blockSize[j] -= processSize[i];

remblockSize[i]=blockSize[j];

break;

}

j=(j + 1) % m;

count+=1;

} }

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 Data "+(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;

}

NextFit(blockSize, m, processSize, n,remblockSize);

}

}

## Output:

Enter how many number of blocks you want to enter:4

Enter Data 1:10

Enter Data 2:15

Enter Data 3:15

Enter Data 4:15

Enter how many number of process you want to enter:4

Enter Data 1:10

Enter Data 2:15

Enter Data 3:14

Enter Data 4:16

Process No. Process Size Block no. Remaninig Block Size

1 10 1 0

2 15 2 0

3 14 3 1

4 16 Not Allocated 0