import java.io.\*;

import java.util.\*;

// Java implementation of worst - Fit algorithm

public class worstFit

{

// Method to allocate memory to blocks as per worst fit

// algorithm

static void worstFit(int blockSize[], int m, int processSize[],

int n)

{

// Stores block id of the block allocated to a

// process

int allocation[] = new int[n];

// Initially no block is assigned to any process

for (int i = 0; i < allocation.length; i++)

allocation[i] = -1;

// pick each process and find suitable blocks

// according to its size ad assign to it

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

{

// Find the best fit block for current process

int wstIdx = -1;

for (int j=0; j<m; j++)

{

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

{

if (wstIdx == -1)

wstIdx = j;

else if (blockSize[wstIdx] < blockSize[j])

wstIdx = j;

}

}

// If we could find a block for current process

if (wstIdx != -1)

{

// allocate block j to p[i] process

allocation[i] = wstIdx;

// Reduce available memory in this block.

blockSize[wstIdx] -= processSize[i];

}

}

System.out.println("\nProcess No.\tProcess Size\tBlock no.");

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);

else

System.out.print("Not Allocated");

System.out.println();

}

}

// Driver Method

public static void main(String[] args)

{

int blockSize[] = {100, 500, 200, 300, 600};

int processSize[] = {212, 417, 112, 426};

int m = blockSize.length;

int n = processSize.length;

worstFit(blockSize, m, processSize, n);

}

}

Output

Process No. Process Size Block no.

1 212 5

2 417 2

3 112 5

4 426 Not Allocated