

## 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