

**Program:**

```
import java.util.Scanner;

public class FirstFit {

    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 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;
        }
        firstFit(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