

```
import java.util.Scanner;

public class _10_11_best_fit
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);

        System.out.println("Enter no. of jobs: ");
        int n=sc.nextInt();

        int req[]=new int[n];
        int job[]=new int[n];

        System.out.println("Enter no. of blocks: ");
        int m=sc.nextInt();

        int b[]=new int[m];
        int avl[]=new int[m];
        int f[]=new int[m];
        int temp;

        for(int i=0;i<n;i++)
        {
            System.out.println("Enter memory requirement for job "+(i+1)+" : ");
            req[i]=sc.nextInt();
            job[i]=(i+1);
        }

        System.out.println();
        for(int i=0;i<m;i++)
        {
            System.out.println("Enter memory available for block "+(i+1)+" : ");
            avl[i]=sc.nextInt();
            b[i]=(i+1);
        }
    }
}
```

```
}
```

```
System.out.println("MEMORY REQUIREMENT:");
```

```
System.out.println("JOB\t M_REQUIREMENT");
```

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

```
{
```

```
    System.out.print(job[i]+"\\t"+req[i]);
```

```
    System.out.println();
```

```
}
```

```
System.out.println();
```

```
System.out.println("MEMORY AVAILABLE:");
```

```
System.out.println("BLOCK\t M_AVAILABLE");
```

```
for(int i=0;i<m;i++)
```

```
{
```

```
    System.out.print(b[i]+"\\t"+avl[i]);
```

```
    System.out.println();
```

```
}
```

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

```
{
```

```
    f[i]= 0;
```

```
}
```

```
// arranging in ascending order
```

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

```
{
```

```
    for(int j=0; j < n-(i+1) ; j++)
```

```

    {
        if(avl[j] > avl[j+1])
        {
            temp=avl[j];
            avl[j]=avl[j+1];
            avl[j+1]=temp;
            temp=b[j];
            b[j]=b[j+1];
            b[j+1]=temp;
        }
    }
}

System.out.println("JOB\t\t BLOCK");
for(int i=0;i<n;i++)
{
    for(int j=0;j<m;j++)
    {
        if(req[i]<=avl[j] && f[j]==0)
        {
            f[j]=1;
            System.out.println(job[i]+"t-->" +b[j]);
            break;
        }
    }
}
sc.close();

}
}

```