

Name : Pratiksha Thorat

Roll No. TCOB26

Next fit

```
import java.util.Scanner;
```

```
public class mm_next_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];
```

```
        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;
}
```

```
System.out.println();
System.out.println("JOB\t BLOCK");
int j=0;
```

```

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

        if(j==m)
        {
            j=0;
        }
        if(cnt==m)
        {
            break;
        }
    }
}
sc.close();
}
}

```

```
eclipse-workspace - fcsf/src/Next_fit.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems Javadoc Declaration Console x Debug
<terminated> Next_fit [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\javaw.exe (26-Sep-2022, 9:42:35 pm - 9:43:13 pm) [pid: 6512]
Enter no. of blocks:
3
Enter memory requirement for job 1 :
10
Enter memory requirement for job 2 :
20
Enter memory requirement for job 3 :
30

Enter memory available for block 1 :
5
Enter memory available for block 2 :
10
Enter memory available for block 3 :
20
MEMORY REQUIREMENT:
JOB      M_REQUIREMENT
1        10
2        20
3        30

MEMORY AVAILABLE:
BLOCK    M_AVAILABLE
1         5
2        10
3        20

JOB      BLOCK
1        -->2
2        -->3
```