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Roll no. TCOB26

Best fit

```
import java.util.*;
public class 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;
}
    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();
```

}

OUTPUT

```
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   cclipse-workspace - fcfs/src/Best_fit.java - Eclipse IDE
| Received with the control of the c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Enter no. of blocks:
   Enter memory requirement for job 1 :
     Enter memory requirement for job 2 :
     Enter memory requirement for job 3 :
     Enter memory requirement for job 4 :
     Enter memory available for block 1 :
     Enter memory available for block 2 :
     Enter memory available for block 3 :
     Enter memory available for block 4 :
     Enter memory available for block 5 :
     MEMORY REQUIREMENT:
   JOB
1
2
3
                                                        M_REQUIREMENT
219
                                                            411
                                                            119
                                                             456
   MEMORY AVAILABLE:
 Type here to search
                                                                                                                                                                                                                                                     □ \( \mathref{H} \) \( \mathref{e} \) \( \ma
```

