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import java.util.Scanner;

public class Priority {

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

        int x,n,p[],pp[],bt[],w[],t[],awt,atat,i;

        p = new int[10];
        pp = new int[10];
        bt = new int[10];
        w = new int[10];
        t = new int[10];

        //n is number of process
        //p is process
        //pp is process priority
        //bt is process burst time
        //w is wait time
        // t is turnaround time
        //awt is average waiting time
        //atat is average turnaround time

        System.out.print("Enter the number of process : ");
        n = s.nextInt();
        System.out.print("\n\t Enter burst time : time priorities \n");

        for(i=0;i<n;i++)
        {
            System.out.print("\nProcess["+(i+1)+"]:");
            bt[i] = s.nextInt();
            pp[i] = s.nextInt();
        }
    }
}

```

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    p[i]=i+1;
}

//sorting on the basis of priority
for(i=0;i<n-1;i++)
{
    for(int j=i+1;j<n;j++)
    {
        if(pp[i]<pp[j])
        {
            x=pp[i];
            pp[i]=pp[j];
            pp[j]=x;
            x=bt[i];
            bt[i]=bt[j];
            bt[j]=x;
            x=p[i];
            p[i]=p[j];
            p[j]=x;
        }
    }
}
w[0]=0;
awt=0;
t[0]=bt[0];
atat=t[0];
for(i=1;i<n;i++)
{
    w[i]=t[i-1];
    awt+=w[i];
    t[i]=w[i]+bt[i];
    atat+=t[i];
}

```

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//Displaying the process
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    System.out.print("\n\nProcess \t Burst Time \t Wait Time \t Turn  
Around Time \t Priority \n");  
    for(i=0;i<n;i++)  
        System.out.print("\n "+p[i)+"\t\t "+bt[i)+"\t\t "+w[i)+"\t\t  
"+t[i)+"\t\t "+pp[i)+"\n");  
    awt/=n;  
    atat/=n;  
    System.out.print("\n Average Wait Time : "+awt);  
    System.out.print("\n Average Turn Around Time : "+atat);  
  
    }  
}
```