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import java.util.Scanner;

public class Priority {
    public static void main(String args[]) {
        int x, n, p[], pp[], bt[], w[], t[], sum = 0, prs, avg1;
        float awt, atat;

        Scanner it = new Scanner(System.in);

        p = new int[10];
        pp = new int[10];
        bt = new int[10];
        w = new int[10];
        t = new int[10];
        System.out.println("\nEnter the no. of process : ");
        prs = it.nextInt();
        System.out.println("\nEnter Burst Time : \n");
        for (int i = 0; i < prs; i++) {
            System.out.println("Process : " + (i + 1));
            bt[i] = it.nextInt();
            sum = sum + bt[i];
            System.out.println("Priority: ");
            pp[i] = it.nextInt();
            p[i] = i + 1;
        }
        for (int i = 0; i < prs - 1; i++) {
            for (int l = i + 1; l < prs; l++) {
                if (pp[i] < pp[l]) {
                    x = pp[i];

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        pp[i] = pp[l];
        pp[l] = x;
        x = bt[i];
        bt[i] = bt[l];
        bt[l] = x;
        x = p[i];
        p[i] = p[l];
        p[l] = x;
    }
}

w[0] = 0;
awt = 0;
t[0] = bt[0];
atat = t[0];

for (int i = 1; i < prs; i++) {
    w[i] = t[i - 1];
    awt += w[i];
    t[i] = w[i] + bt[i];
    atat += t[i];
}

System.out.println("----- Priority -----\\n");
System.out.println("Process\\t\\t" + "Burst Time \\t" + "Priority \\t" + "Waiting Time\\t" + "Turn Time");
System.out.print("-----");
for (int i = 0; i < prs; i++)
    System.out
        .print("\\n P" + p[i] + "\\t\\t" + bt[i] + "\\t\\t" + pp[i] + "\\t\\t" + w[i] + "\\t\\t" + t[i]);
System.out.println("\\n-----");

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avg1 = sum / prs;
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awt /= prs;
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atat /= prs;
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System.out.println("Average Burst Time : " + avg1);
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System.out.println("Average Wait Time : " + awt);
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System.out.println("Average Turn Around Time : " + atat);
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}
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}
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