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

public class Priority {

    public static void main(String[] args) {
        System.out.print("Enter Number of Process: ");
        Scanner sc = new Scanner(System.in);
        int numberOfProcess = sc.nextInt();
        String process[] = new String[numberOfProcess];

        int p = 1;
        for (int i = 0; i < numberOfProcess; i++) {
            process[i] = "P" + p;
            p++;
        }

        System.out.print("Enter Arrival Time for " + numberOfProcess + "
process: ");

        int arrivalTime[] = new int[numberOfProcess];
        for (int i = 0; i < numberOfProcess; i++) {
            arrivalTime[i] = sc.nextInt();
        }

        System.out.print("Enter Burst Time for " + numberOfProcess + "
process: ");

        int burstTime[] = new int[numberOfProcess];
        for (int i = 0; i < numberOfProcess; i++) {
            burstTime[i] = sc.nextInt();
        }

        System.out.print("Enter Priority for " + numberOfProcess + "
process: ");

        int priority[] = new int[numberOfProcess];
        for (int i = 0; i < numberOfProcess; i++) {
            priority[i] = sc.nextInt();
        }

// Sorting process & burst time by priority
        int temp;
        String temp2;
        for (int i = 0; i < numberOfProcess - 1; i++) {
            for (int j = 0; j < numberOfProcess - 1; j++) {
                if (priority[j] > priority[j + 1]) {
                    temp = priority[j];
                    priority[j] = priority[j + 1];
                    priority[j + 1] = temp;

                    temp = burstTime[j];
                    burstTime[j] = burstTime[j + 1];
                    burstTime[j + 1] = temp;
```

```
                    temp2 = process[j];
                    process[j] = process[j + 1];
                    process[j + 1] = temp2;

                }
            }
        }

        int TAT[] = new int[numberOfProcess + 1];
        int waitingTime[] = new int[numberOfProcess + 1];

// Calculating Waiting Time & Turn Around Time
        for (int i = 0; i < numberOfProcess; i++) {
            TAT[i] = burstTime[i] + waitingTime[i];
            waitingTime[i + 1] = TAT[i];
        }

        int totalWT = 0;
        int totalTAT = 0;
        double avgWT;
        double avgTAT;

        System.out.println("Process    AT         BT     Priority  WT
TAT");
        for (int i = 0; i < numberOfProcess; i++) {

            System.out.println(process[i] + "          "+arrivalTime[i]
+"          "+  burstTime[i] + "       "+priority[i]+"       " +
waitingTime[i] + "           " + (TAT[i]));
            totalTAT += (waitingTime[i] + burstTime[i]);
            totalWT += waitingTime[i];

        }

        avgWT = totalWT / (double) numberOfProcess;
        avgTAT = totalTAT / (double) numberOfProcess;

        System.out.println("\n Average Wating Time: " + avgWT);
        System.out.println(" Average Turn Around Time: " + avgTAT);

    }

}
```

```
/*
OUTPUT-
Enter Number of Process: 6
Enter Arrival Time for 6 process: 0
1
2
3
4
5
Enter Burst Time for 6 process: 4
5
1
2
3
6
Enter Priority for 6 process: 4
5
7
2
1
5
Process    AT         BT     Priority  WT        TAT
P5          0          3       1       0          3
P4          1          2       2       3          5
P1          2          4       4       5          9
P2          3          5       5       9          14
P6          4          6       5       14          20
P3          5          1       7       20          21

 Average Wating Time: 8.5
 Average Turn Around Time: 12.0
/*
```