```
//FCFS
import java.util.*;
public class FCFS {
public static void main(String args[])
Scanner sc = new Scanner(System.in);
System.out.println("enter no of process: ");
int n = sc.nextInt();
int pid[] = new int[n];
int ar[] = new int[n];
int bt[] = new int[n];
int ct[] = new int[n];
int ta[] = new int[n];
int wt[] = new int[n];
int temp;
float avgwt=0, avgta=0;
for (int i = 0; i < n; i++)
System.out.println("enter process " + (i+1) + " arrival time: ");
ar[i] = sc.nextInt();
System.out.println("enter process " + (i+1) + " brust time: ");
bt[i] = sc.nextInt();
pid[i] = i+1;
}
for(int i = 0 ; i < n; i++)
for (int j=0; j < n-(i+1); j++)
if(ar[j] > ar[j+1])
temp = ar[j];
ar[j] = ar[j+1];
ar[j+1] = temp;
temp = bt[j];
bt[j] = bt[j+1];
bt[j+1] = temp;
temp = pid[j];
pid[j] = pid[j+1];
pid[j+1] = temp;
}
}
for(int i = 0 ; i < n; i++)
if(i == 0)
ct[i] = ar[i] + bt[i];
else
```

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if(ar[i] > ct[i-1])
ct[i] = ar[i] + bt[i];
else
ct[i] = ct[i-1] + bt[i];
ta[i] = ct[i] - ar[i];
wt[i] = ta[i] - bt[i];
avgwt += wt[i] ;
avgta += ta[i] ;
System.out.println("\npid arrival brust complete turn waiting");
for(int i = 0; i < n; i++)
System.out.println(pid[i] + " + ar[i] + " + bt[i] + " + ct[i]
+ "\t" + ta[i] + "\t" + wt[i] );
sc.close();
System.out.println("\naverage waiting time: "+ (avgwt/n));
System.out.println("average turnaround time:"+(avgta/n));
/*
OUTPUT-
enter no of process:
enter process 1 arrival time:
enter process 1 brust time:
enter process 2 arrival time:
enter process 2 brust time:
enter process 3 arrival time:
enter process 3 brust time:
enter process 4 arrival time:
enter process 4 brust time:
pid arrival brust complete turn waiting
1
       0
                 2
                         2
                               2 0
2
                               3 1
       1
                          4
3
       5
                 3
                          8
                               3 0
                               6 2
                         12
average waiting time: 0.75
```

average turnaround time:3.5