#include<conio.h>

#include<stdio.h>

int main()

{

int m , i , j , avgw=0;

float avgtime=0, temp;

int burst[10], wait[10] ,process[10];

printf("\n Process Scheduling :\n");

printf("\n Enter the number of process :\n");

scanf("%d",&m);

printf(" \n Enter the Burst time\n");

for(i=0;i<m;i++)

{

printf("Burst time P %d : ",i+1);

scanf("%d",&burst[i]);

process[i] = i;

printf("\n");

}

for(i=0;i<m;i++)

{

for(j=i;j<m;j++)

{

if(burst[i]>burst[j])

{

temp = burst[i];

burst[i] = burst[j];

burst[j] = temp;

temp = process[i];

process[i] = process[j];

process[j] = temp;

}

}

}

printf("\n Waiting time\n");

j=0;

for(i=0;i<m;i++)

{

wait[i] = j;

j = burst[i] + j;

printf("\nP%d : %d\t\t%d",process[i]+1,wait[i],wait[i]+burst[i]);

avgw+=wait[i];

avgtime+=wait[i]+burst[i];

}

printf("\n\n");

printf("Average waiting time : %f\nAverage Turn around time : %f\n\n",avgw/(float)m,avgtime/(float)m);

return 0;

}