#include<stdio.h>

int main(){

int n,b\_t[10],w\_t[10],ta\_t[10],i,j,a[10],pos,temp,total=0;

float sum\_wt=0,sum\_tat=0,avg\_wt=0,avg\_tat=0;

printf("Enter number of processes");

scanf("%d",&n);

printf("\nEnter the order of processes in terms of 1,2,3....");

for(i=0;i<n;i++){

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

}

for(i=0;i<n;i++){

printf("Enter the burst time of process %d:",a[i]);

scanf("%d",&b\_t[i]);

}

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

{

pos=i;

for(j=i+1;j<n;j++)

{

if(b\_t[j]<b\_t[pos])

pos=j;

}

temp=b\_t[i];

b\_t[i]=b\_t[pos];

b\_t[pos]=temp;

temp=a[i];

a[i]=a[pos];

a[pos]=temp;

}

w\_t[0]=0;

for(i=1;i<n;i++)

{

w\_t[i]=0;

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

w\_t[i]+=b\_t[j];

total+=w\_t[i];

}

avg\_wt=(float)total/n;

total=0;

printf("\nProcesst Burst Time Waiting Timet Turnaround Time");

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

{

ta\_t[i]=b\_t[i]+w\_t[i];

total+=ta\_t[i];

printf("\np%d\t\t %d\t\t %d\t\t\t%d",a[i],b\_t[i],w\_t[i],ta\_t[i]);

}

avg\_tat=(float)total/n;

printf("\nAverage Waiting Time=%.1f",avg\_wt);

printf("\nAverage Turnaround Time=%.1f",avg\_tat);

}