Non – preemptive

#include<bits/stdc++.h>

using namespace std;

int main()

{

cout<<"Enter the Number of Processes::"<<endl;

int n;

cin>>n;

int par[n],pex[n],p[n];

cout<<"Arrival time "<<endl;

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

p[i]=i+1;

int arri;

cin>>arri;

par[i]=arri;

}

cout<<"Execution time"<<endl;

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

{

int exec;

cin>>exec;

pex[i]=exec;

}

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

for(int j=0;j<n;j++){

if(par[i]<par[j]){

int temp = par[i];

par[i]=par[j];

par[j]=temp;

temp = pex[i];

pex[i] = pex[j];

pex[j]=temp;

temp=p[j];

p[j]=p[i];

p[i]=temp;

}

}

}

int extime=0,k=1;

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

{

extime+=pex[i];

int mini=pex[k];

for(int j=k;j<n;j++)

{

if(extime>=par[j] && pex[j]<mini)

{

int temp=p[k];

p[k]=p[j];

p[j]=temp;

temp=par[k];

par[k]=par[j];

par[j]=temp;

temp=pex[k];

pex[k]=pex[j];

pex[j]=temp;

}

}

k++;

}

int wt[n],sum=0;

double total=0;

wt[0]=0;

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

sum+=pex[i-1];

wt[i]=sum-par[i];

total+=wt[i];

}

cout<<endl;

cout<<"process\_number wait\n";

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

cout<<p[i]<<" "<<wt[i]<<"\n";

}

cout<<"Average waiting time is "<<total/n<<endl;

return 0;

}