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| /\* SJF Non prremptive \*/ |
|  | #include<iostream> |
|  | # define max 30 |
|  | using namespace std; |
|  | int main() |
|  | { |
|  | int i, j, n, t, wt[max], p[max],bt[max],tat[max]; |
|  | float awt= 0, atat= 0; |
|  | cout<<"Number of process"; |
|  | cin>>n; |
|  | cout<<"Enter the process number: "; |
|  | for(i=0;i<n;i++) |
|  | { |
|  | cin>>p[i]; |
|  | } |
|  | cout<<"Enter the burst time of process"; |
|  | for(i=0;i<n;i++) |
|  | { |
|  | cin>>bt[i]; |
|  | } |
|  | for(i=0;i<n;i++) |
|  | { |
|  | for(j=0;j<n-i-1;j++) |
|  | { |
|  | if(bt[j]>bt[j+1]) |
|  | { |
|  | t= bt[j]; |
|  | bt[j]=bt[j+1]; |
|  | bt[j+1]= t; |
|  | t= p[j]; |
|  | p[j]= p[j+1]; |
|  | p[j+1]=t; |
|  | } |
|  | } |
|  | } |
|  | cout<<"process \t burst time \t waiting time \t turn around time \n"; |
|  | for(i=0;i<n;i++) |
|  | { |
|  | wt[i]= 0; |
|  | tat[i]= 0; |
|  | for(j=0;j<i;j++) |
|  | { |
|  | wt[i]=wt[i]+bt[j]; |
|  | } |
|  | tat[i]= wt[i]+bt[i]; |
|  | awt= awt+wt[i]; |
|  | atat= atat+tat[i]; |
|  | cout<<"\t"<<p[i]<<"\t\t"<<bt[i]<<"\t\t"<<wt[i]<<"\t\t"<<tat[i]<<endl; |
|  | } |
|  | awt= awt/n; |
|  | atat= atat/n; |
|  | cout<<"Average waiting time= "<<awt<<endl; |
|  | cout<<"Average turn around time= "<<atat<<endl; |
|  | return 0; |
|  | } |
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