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| --- |
| /\* PRIORITY(non premtive)\*/ |
|  | #include<iostream> |
|  | #define max 30 |
|  | using namespace std; |
|  | int main() |
|  | { |
|  | int i,n,j,t,bt[max],wt[max],pr[max],tat[max],pos; |
|  | float awt=0, atat= 0; |
|  | cout<<"Enter a number of process:- "; |
|  | cin>>n; |
|  | cout<<"Enter the burst time of the process:- "<<endl; |
|  | for(i=0; i<n; i++) |
|  | { |
|  | cin>>bt[i]; |
|  | } |
|  | cout<<"Enter the priority of the process:- "<<endl; |
|  | for(i=0; i<n; i++) |
|  | { |
|  | cin>>pr[i]; |
|  | } |
|  | for(i=0;i<n;i++) |
|  | { |
|  | pos=i; |
|  | for(j=i+1;j<n;j++) |
|  | { |
|  | if(pr[j]<pr[pos]) |
|  | { |
|  | pos=j; |
|  | } |
|  | } |
|  | t= pr[i]; |
|  | pr[i]=pr[pos]; |
|  | pr[pos]=t; |
|  |  |
|  | t=bt[i]; |
|  | bt[i]=bt[pos]; |
|  | bt[pos]=t; |
|  | } |
|  | wt[0]= 0; |
|  | cout<<"Process\t burst time\t priority\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"<<i+1<<"\t\t"<<bt[i]<<"\t\t"<<pr[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; |
|  | } |