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////////////////////////////////////////// FCFS

#include<stdio.h>
int main()
{
   int at[10],at2[10],bt[100],ex[100];   //seq[100],re[100],
   int wt[100],tat[100];
   int n,i,j,start,pos,max=0,min,idle=0,k=0;
   float totwt=0,tottat=0;

   printf("*****INPUT*****\n");
   printf("Enter number of process\n");
   scanf("%d",&n);
   printf("Enter arrival time for processess\n");
   for(i=0;i<n;i++)
   {
    scanf("%d",&at[i]);
    at2[i]=at[i];
   }

   printf("Enter burst time for processess\n");
   for(i=0;i<n;i++)
   {
    scanf("%d",&bt[i]);
   }

   start=at[0];
   for(i=1;i<n;i++)
   {
     if(start>at[i])
      {
      start=at[i];
      }
    }

   printf("*****OUTPUT*****\n");
   printf("Sequence of execution is\n");
   for(i=0;i<n;i++)
   {
   if(max<at[i])
    {
     max=at[i];
    }
   }
   max=max+1;

  for(i=0;i<n;i++,k++)
    {  min=max;
      for(j=0;j<n;j++){
          if(at[j]!=-1)
            {
              if(at[j]<min)
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                {
                 min=at[j];
                 pos=j;
                }
               }
          }
       printf("[P%d]  ",pos);
      // seq[k]=pos;
       if(start<at[pos]){
        //  re[pos]=start;
          idle+=at[pos]-start;
          start=at[pos];
          start+=bt[pos];
          at[pos]=-1;
          ex[pos]=start;
       }
       else{
       //  re[pos]=start;
         start+=bt[pos];
         at[pos]=-1;
         ex[pos]=start;
        }
      }
     printf("\n");
     for(i=0;i<n;i++)
     {
       tat[i]=ex[i]-at2[i];
       wt[i]=tat[i]-bt[i];
     }
 printf("Process  Arrival-time(s)  Burst-time(s)  Waiting-time(s)  Turnaround-time(s)\n");
   for(i=0;i<n;i++)
    {
      printf("P%d          %d          %d          %d          %d\n",i,at2[i],bt[i],wt[i],tat[i]);
    }
   for(i=0;i<n;i++)
   {
    totwt+=tat[i];
    tottat+=wt[i];
   }
  printf("Average waiting time(s) %f\nAverage turnaroundtime(s) %f\nCPU idle time(s)%d\
n",tottat/n,totwt/n,idle);
}
```