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// Solution for question 40
// Shruti Pandey (11616119)
#include<stdio.h>
void main()
    int bt[20],p[20],wt[20],tat[20],i,j,n,total=0,pos,temp;
    float avg wt, avg tat;
    printf("Enter number of process:");
    scanf("%d",&n);
    printf("\nEnter Burst Time:\n");
    for(i=0;i<n;i++)
        printf("p%d:",i+1);
        scanf("%d", &bt[i]);
        p[i]=i+1;
                             //contains process number
    }
    //sorting burst time in ascending order using selection sort
    for(i=0;i<n;i++)
    {
        pos=i;
        for(j=i+1;j<n;j++)
            if(bt[j]<bt[pos])</pre>
                pos=j;
        }
        temp=bt[i];
        bt[i]=bt[pos];
        bt[pos]=temp;
        temp=p[i];
        p[i]=p[pos];
        p[pos]=temp;
    }
    wt[0]=0;
                        //waiting time for first process will be zero
    //calculate waiting time
    for(i=1;i<n;i++)
    {
        wt[i] = 0;
        for(j=0;j<i;j++)
            wt[i]+=bt[j];
        total+=wt[i];
    }
    avg wt=(float)total/n;  //average waiting time
    total=0;
```