#include<stdio.h>

#include<conio.h>

void main()

{

int et[30],ts,n,i,x=0,tot=0;

char pn[10][10];

clrscr();

printf("Enter the no of processes:");

scanf("%d",&n);

printf("Enter the time quantum:");

scanf("%d",&ts);

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

{

printf("enter process name & estimated time:");

scanf("%s %d",pn[i],&et[i]);

}

printf("The processes are:");

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

printf("process %d: %s\n",i+1,pn[i]);

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

tot=tot+et[i];

while(x!=tot)

{

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

{

if(et[i]>ts)

{

x=x+ts;

printf("\n %s -> %d",pn[i],ts);

et[i]=et[i]-ts;

}

else

if((et[i]<=ts)&&et[i]!=0)

{

x=x+et[i];

printf("\n %s -> %d",pn[i],et[i]);

et[i]=0;}

}

}

printf("\n Total Estimated Time:%d",x);

getch();

}