

FCFS

```
#include<stdio.h>
int i,n,p[10],at[10],bt[10],ct[10],tat[10],wt[10],tot_tat=0,tot_wt=0;
float avg_tat,avg_wt;
int swap(int *a, int *b)
{
    int t;
    t = *a;
    *a = *b;
    *b = t;
    return 0;
}

int sort()
{
    int i,j;
    for(i=0;i<n;i++)
    {
        for(j=i+1;j<n;j++)
        {
            if(at[i]>at[j])
            {
                swap(&at[j],&at[i]);
                swap(&bt[j],&bt[i]);
                swap(&p[j],&p[i]);
            }
        }
    }
    return 0;
}

void calculate()
{
    sort();
    //calculating completion time
    ct[0]=at[0]+bt[0]; //initial values of ct[0]

    for(i=1;i<n;i++)
    {
        if(at[i]<=ct[i-1])
        {
            ct[i] = ct[i-1] + bt[i];
        }
        else
        {
            ct[i] = at[i] + bt[i];
        }
    }

    //calculating the turn around time and waiting time
    for(i=0;i<n;i++)
    {
        tat[i] = ct[i]-at[i];
        wt[i] = tat[i]-bt[i];

        tot_tat += tat[i];
        tot_wt += wt[i];
    }
    avg_tat = (float)tot_tat/(float)n;
    avg_wt= (float)tot_wt/(float)n;
}
```

```

void main()
{
    //scanning the number of process
    printf("\nEnter the no of process : ");
    scanf("%d",&n);

    //Scanning the arrival time and burst time of each process
    printf("\nEnter the AT and BT of each process respectively \n");
    for(i=0;i<n;i++)
    {
        scanf("%d%d",&at[i],&bt[i]);
        p[i] = i+1;
    }

    calculate();

    // Printing the result
    printf("\nPID\tAT\tBT\tCT\tTAT\tWT\n");
    for(i=0;i<n;i++)
    {
        printf("\n%d\t%d\t%d\t%d\t%d\t%d",p[i],at[i],bt[i],ct[i],tat[i],wt[
i]);
    }

    printf("\nAverage TAT = %.2f \nAverage WT =%.2f\n",avg_tat,avg_wt);
}

```

OUTPUT

Enter the no of process : 3

Enter the AT and BT of each process respectively

```

0      2
1      4
2      3

```

PID	AT	BT	CT	TAT	WT
1	0	2	2	2	0
2	1	4	6	5	1
3	2	3	9	7	4

Average TAT = 4.67

Average WT =1.67

SJF

```
#include<stdio.h>
#define size 10
int
n,p[size],at[size],bt[size],ct[size],tat[size],wt[size],tot_tat=0,tot_wt=0;
float avg_tat,avg_wt;
void sort()
{
    int i,j,t;
    for(i=0;i<n;i++)
    {
        for(j=i+1;j<n;j++)
        {
            if(bt[i]>bt[j])
            {
                //swap(&at[j],&at[i]);
                t = at[j];
                at[j] = at[i];
                at[i] = t;
                //swap(&bt[j],&bt[i]);
                t = bt[j];
                bt[j] = bt[i];
                bt[i] = t;
                //swap(&p[j],&p[i]);
                t = p[j];
                p[j] = p[i];
                p[i] = t;
            }
            else if(bt[i]>bt[j])
            {
                if(at[i]>at[j])
                {
                    //swap(&at[j],&at[i]);
                    t = at[j];
                    at[j] = at[i];
                    at[i] = t;
                    //swap(&bt[j],&bt[i]);
                    t = bt[j];
                    bt[j] = bt[i];
                    bt[i] = t;
                    //swap(&p[j],&p[i]);
                    t = p[j];
                    p[j] = p[i];
                    p[i] = t;
                }
            }
        }
    }
}

void calculate()
{
    int i;
    //calculating completion time
    ct[0]=at[0]+bt[0]; //initial values of ct[0]
    for(i=1;i<n;i++)
    {
        if(at[i]<=ct[i-1])
        {
            ct[i] = ct[i-1] + bt[i];
        }
    }
}
```

```

        else
        {
            ct[i] = at[i] + bt[i];
        }
    }
    //calculating the turn around time and waiting time
    for(i=0;i<n;i++)
    {
        tat[i] = ct[i]-at[i];
        wt[i] = tat[i]-bt[i];

        tot_tat += tat[i];
        tot_wt += wt[i];
    }
    avg_tat = (float)tot_tat/(float)n;
    avg_wt= (float)tot_wt/(float)n;
    // Printing the result
    printf("\nPID\tAT\tBT\tCT\tTAT\tWT\n");
    for(i=0;i<n;i++)
    {
        printf("\n%d\t%d\t%d\t%d\t%d\t%d",p[i]+1,at[i],bt[i],ct[i],tat[i],w
t[i]);
    }
}
void main()
{
    int i;
    printf("\nEnter the no.of processes :");
    scanf("%d",&n);
    printf("Enter arrival time and burst time for each process\n");
    for(i=0;i<n;i++)
    {
        scanf("%d%d",&at[i],&bt[i]);
        p[i] = i;
    }
    sort();
    calculate();
    printf("\nAverage Turn around Time : %.2f ", avg_tat);
    printf("\nAverage Waiting Time : %.2f\n",avg_wt);
}

```

OUTPUT

```

Enter the no.of processes :4
Enter arrival time and burst time for each process
0      6
0      8
0      7
0      3

PID    AT    BT    CT    TAT    WT
4      0     3     3     3     0
1      0     6     9     9     3
3      0     7    16    16     9
2      0     8    24    24    16
Average Turn around Time : 13.00
Average Waiting Time : 7.00

```

ROUND ROBIN

```
#include<stdio.h>
#define size 10
int TRUE = 0;
int FALSE = -1;
int
n=0,qt=0,bt[size],tbt[size],tat[size],wt[size],tqt=0,time=0,lmore,tot_tat=0
,tot_wt=0;
float avg_tat,avg_wt;
void calculate()
{
    int i;
    lmore = TRUE;
    while(lmore == TRUE)
    {
        lmore = FALSE;
        for(i=0;i<n;i++)
        {
            if(bt[i] != 0)
                wt[i] = wt[i] + (time - tat[i]);
            tqt = 1;
            while(tqt <= qt && bt[i] !=0)
            {
                lmore = TRUE;
                bt[i] = bt[i] -1;
                tqt++;
                time++;
                tat[i] = time;
            }
        }
    }

    printf("\nProcessor ID\tBurstTime\tTurnAroundTime\tWaitingTime\n");
    for(i=0;i<n;i++)
    {
        printf("%d\t%d\t%d\t%d\n",i+1,tbt[i],tat[i],wt[i]);
        tot_tat = tot_tat + tat[i];
        tot_wt = tot_wt + wt[i];
    }
    avg_tat = (float)tot_tat/(float)n;
    avg_wt= (float)tot_wt/(float)n;

    //printf("\nTotal Turn Around Time:%d",tot_tat);
    //printf("\nTotal Waiting Time:%d",tot_wt);
}
void main()
{
    int i,j;
    printf("\nEnter no. of processors : ");
    scanf("%d",&n);
    printf("\nEnter Quantum Time : ");
    scanf("%d",&qt);
    printf("Enter burst time for each process\n");
    for(i=0;i<n;i++)
    {
        //printf("\nProcessor[%d]:",i+1);
        scanf("%d",&bt[i]);
        tbt[i] = bt[i];
        wt[i] = tat[i] = 0;
    }
}
```

```

        calculate();

        printf("\nAverage Turn around Time : %.2f ", avg_tat);
        printf("\nAverage Waiting Time : %.2f\n", avg_wt);
    }

```

OUTPUT

Enter no. of processors : 4

Enter Quantum Time : 2

Enter burst time for each process

4

3

2

1

Processor ID	BurstTime	TurnAroundTime	WaitingTime
1	4	9	5
2	3	10	7
3	2	6	4
4	1	7	6

Average Turn around Time : 8.00

Average Waiting Time : 5.50

PRIORITY

```
#define size 10
int
n,p[size],pr[size],at[size],bt[size],ct[size],tat[size],wt[size],tot_tat=0,
tot_wt=0;
float avg_tat,avg_wt;

void sort()
{
    int i,j,t;
    for(i=0;i<n;i++)
    {
        for(j=i+1;j<n;j++)
        {
            if(pr[i]>pr[j])
            {
                //swap(&pr[j],&pr[i]);
                t = pr[j];
                pr[j] = pr[i];
                pr[i] = t;
                //swap(&bt[j],&bt[i]);
                t = bt[j];
                bt[j] = bt[i];
                bt[i] = t;
                //swap(&p[j],&p[i]);
                t = p[j];
                p[j] = p[i];
                p[i] = t;
            }
        }
    }
}

void calculate()
{
    sort();
    int i;
    //calculating completion time
    ct[0]=at[0]+bt[0]; //initial values of ct[0]

    for(i=1;i<n;i++)
    {
        if(at[i]<=ct[i-1])
        {
            ct[i] = ct[i-1] + bt[i];
        }
        else
        {
            ct[i] = at[i] + bt[i];
        }
    }

    //calculating the turn around time and waiting time
    for(i=0;i<n;i++)
    {
        tat[i] = ct[i]-at[i];
        wt[i] = tat[i]-bt[i];

        tot_tat += tat[i];
        tot_wt += wt[i];
    }
}
```

```

    }
    avg_tat = (float)tot_tat/(float)n;
    avg_wt= (float)tot_wt/(float)n;

    // Printing the result
    printf("\nPID\tAT\tBT\tCT\tTAT\tWT\n");
    for(i=0;i<n;i++)
    {
        printf("\n%d\t%d\t%d\t%d\t%d\t%d",p[i],at[i],bt[i],ct[i],tat[i],wt[
i]);
    }
}

void main()
{
    int i;
    printf("\nEnter the no.of processes :");
    scanf("%d",&n);
    printf("Enter priority and burst time for each process\n");
    for(i=0;i<n;i++)
    {
        scanf("%d%d",&pr[i],&bt[i]);
        p[i] = i+1;
        at[i]=0;
    }
    //sort();
    calculate();
    printf("\nAverage Turn around Time : %.2f ", avg_tat);
    printf("\nAverage Waiting Time : %.2f\n",avg_wt);
}

```

OUTPUT

```

Enter the no.of processes :3
Enter priority and burst time for each process
3      15
1      3
2      3

PID    AT    BT    CT    TAT    WT
2      0     3     3     3     0
3      0     3     6     6     3
1      0     15    21    21    6
Average Turn around Time : 10.00
Average Waiting Time : 3.00

```


BANKERS ALGORITHM

```
#include <stdio.h>

int current[5][5], maximum_claim[5][5], need[5][5], available[5];
int allocation[5] = {0, 0, 0, 0, 0};
int maxres[5], running[5], safe = 0;
int counter = 0, i, j, exec, resources, processes, k = 1;

int main()
{
    printf("\nEnter number of processes: ");
    scanf("%d", &processes);

    for (i = 0; i < processes; i++)
    {
        running[i] = 1;
        counter++;
    }

    printf("\nEnter number of resources: ");
    scanf("%d", &resources);

    printf("\nEnter Max Available Vector:");
    for (i = 0; i < resources; i++)
    {
        scanf("%d", &maxres[i]);
    }

    printf("\nEnter Allocated Resource Table:\n");
    for (i = 0; i < processes; i++)
    {
        for(j = 0; j < resources; j++)
        {
            scanf("%d", &current[i][j]);
        }
    }

    printf("\nEnter Maximum Claim Table:\n");
    for (i = 0; i < processes; i++)
    {
        for(j = 0; j < resources; j++)
        {
            scanf("%d", &maximum_claim[i][j]);
        }
    }

    for (i = 0; i < processes; i++)
    {
        for(j = 0; j < resources; j++)
        {
            need[i][j] = maximum_claim[i][j] - current[i][j];
        }
    }

    printf("\nThe Max Available Vector is: ");
    for (i = 0; i < resources; i++)
    {
        printf("\t%d", maxres[i]);
    }
}
```

```

printf("\nThe Allocated Resource Table:\n");
for (i = 0; i < processes; i++)
{
    for (j = 0; j < resources; j++)
    {
        printf("\t%d", current[i][j]);
    }
    printf("\n");
}

printf("\nThe Maximum Claim Table:\n");
for (i = 0; i < processes; i++)
{
    for (j = 0; j < resources; j++)
    {
        printf("\t%d", maximum_claim[i][j]);
    }
    printf("\n");
}

printf("\nThe Need Table:\n");
for (i = 0; i < processes; i++)
{
    for (j = 0; j < resources; j++)
    {
        printf("\t%d", need[i][j]);
    }
    printf("\n");
}

for (i = 0; i < processes; i++)
{
    for (j = 0; j < resources; j++)
    {
        allocation[j] += current[i][j];
    }
}

printf("\nAllocated resources:");
for (i = 0; i < resources; i++)
{
    printf("\t%d", allocation[i]);
}

for (i = 0; i < resources; i++)
{
    available[i] = maxres[i] - allocation[i];
}

printf("\nAvailable resources:");
for (i = 0; i < resources; i++)
{
    printf("\t%d", available[i]);
}
printf("\n");

while (counter != 0)
{
    safe = 0;
    for (i = 0; i < processes; i++)
    {

```

```

        if (running[i])
        {
            exec = 1;
            for (j = 0; j < resources; j++)
            {
                if (maximum_claim[i][j] -
current[i][j] > available[j])
                {
                    exec = 0;
                    break;
                }
            }
            if (exec)
            {
                printf("\nProcess%d is executing\n",
i + 1);
                running[i] = 0;
                counter--;
                safe = 1;

                for (j = 0; j < resources; j++)
                {
                    available[j] +=
current[i][j];
                }
                break;
            }
        }
    }
    if (!safe)
    {
        printf("\nThe processes are in unsafe state.\n");
        break;
    }
    else
    {
        printf("\nThe process is in safe state");
        printf("\nAvailable vector:");

        for (i = 0; i < resources; i++)
        {
            printf("\t%d", available[i]);
        }

        printf("\n");
    }
}
return 0;
}

```

OUTPUT

Enter number of processes: 5

Enter number of resources: 3

Enter Max Available Vector:10 5 7

Enter Allocated Resource Table:

0 1 0

2	0	0
3	0	2
2	1	1
0	0	2

Enter Maximum Claim Table:

7	5	3
3	2	2
9	0	2
2	2	2
4	3	3

The Max Available Vector is: 10 5 7

The Allocated Resource Table:

0	1	0
2	0	0
3	0	2
2	1	1
0	0	2

The Maximum Claim Table:

7	5	3
3	2	2
9	0	2
2	2	2
4	3	3

The Need Table:

7	4	3
1	2	2
6	0	0
0	1	1
4	3	1

Allocated resources: 7 2 5

Available resources: 3 3 2

Process2 is executing

The process is in safe state

Available vector: 5 3 2

Process4 is executing

The process is in safe state

Available vector: 7 4 3

Process1 is executing

The process is in safe state

Available vector: 7 5 3

Process3 is executing

The process is in safe state

Available vector: 10 5 5

Process5 is executing

The process is in safe state

Available vector: 10 5 7

```
#include<stdio.h>
void main()
{
    int t[20], tohm[20],n, h, i, j, tot=0;
    float avhm;
    printf("\nEnter the no. of tracks : ");
    scanf("%d", &n);
    printf("\nEnter the position of head : ");
    scanf("%d", &h);
    t[0] = 0;
    t[1] = h;
    printf("\nEnter the track to be traversed\n");
    for(i=2; i<n+2; i++)
        scanf("%d",&t[i]);
    for(i=1;i<n+1;i++)
    {
        tohm[i]=t[i+1]-t[i];
        if(tohm[i]<0)
            tohm[i] *= (-1);
    }
    for(i=1;i<n+1;i++)
        tot += tohm[i];
    avhm = (float)tot/n;
    printf("\n Track traversed\tDifference b/w tracks");
    for(i=1;i<n+1;i++)
        printf("\n%d\t\t\t%d",t[i+1],tohm[i]);
    printf("\nAverage header movement = %.2f",avhm);
    printf("\n");
}
```

```
Enter the no. of tracks : 8
Enter the position of head : 50
Enter the track to be traversed
95 180 34 119 11 123 62 64
```

Track traversed	Difference b/w tracks
95	45
180	85
34	146
119	85
11	108
123	112
62	61
64	2

Average header movement = 80.50

SCAN DISK SCHEDULING

```
#include<stdio.h>
void main()
{
    int t[20],d[20],h,i,j,n,temp,k,atr[20],tot,p,sum=0;
    float avhm;
    printf("\nEnter the no. of tracks to be traversed : ");
    scanf("%d",&n);

    printf("\nEnter the position of head : ");
    scanf("%d",&h);

    t[0]=0;
    t[1]=h;

    printf("Enter the tracks : ");
    for(i=2;i<n+2;i++)
        scanf("%d",&t[i]);

    for(i=0;i<n+2;i++)
    {
        for(j=0;j<(n+2)-i-1;j++)
        {
            if(t[j]>t[j+1])
            {
                temp=t[j];
                t[j]=t[j+1];
                t[j+1]=temp;
            }
        }
    }
    for(i=0;i<n+2;i++)
        if(t[i]==h)
        {
            j=i;
            k=i;
        }

    p=0;
    while(t[j]!=0)
    {
        atr[p]=t[j];
        j--;
        p++;
    }
    atr[p]=t[j];

    for(p=k+1;p<n+2;p++,k++)
        atr[p]=t[k+1];

    for(j=0;j<n+1;j++)
    {
        if(atr[j]>atr[j+1])
            d[j]=atr[j]-atr[j+1];
        else
            d[j]=atr[j+1]-atr[j];
        sum+=d[j];
    }
    avhm = (float)sum/n;
    printf("\n Track traversed\tDifference b/w tracks");
    for(i=0;i<n+1;i++)
```

```

        printf("\n%d\t\t\t%d",atr[i+1],d[i]);
printf("\nTotal header movement = %d",sum);
printf("\nAverage header movement = %.2f",avhm);
printf("\n");
}

```

OUTPUT

Enter the no. of tracks to be traversed : 8

Enter the position of head : 50

Enter the tracks : 176 79 34 60 92 11 41 114

Track traversed	Difference b/w tracks
41	9
34	7
11	23
0	11
60	60
79	19
92	13
114	22
176	62
Total header movement = 226	
Average header movement = 28.25	

CSCAN DISK SCHEDULING

```
#include<stdio.h>
void main()
{
    int t[20],d[20],h,i,j,n,temp,k,atr[20],tot,p,sum=0;
    float avhm;
    printf("\nEnter the no. of tracks to be traversed : ");
    scanf("%d",&n);

    printf("\nEnter the position of head : ");
    scanf("%d",&h);

    t[0]=0;
    t[1]=h;

    printf("\nEnter the total tracks : ");
    scanf("%d",&tot);
    t[2] = tot-1;

    printf("Enter the tracks : ");
    for(i=3;i<n+3;i++)
        scanf("%d",&t[i]);

    for(i=0;i<n+3;i++)
    {
        for(j=0;j<(n+3)-i-1;j++)
        {
            if(t[j]>t[j+1])
            {
                temp=t[j];
                t[j]=t[j+1];
                t[j+1]=temp;
            }
        }
    }
    for(i=0;i<n+3;i++)
        if(t[i]==h)
        {
            j=i;
            //k=i;
            break;
        }

    p=0;
    while(t[j]!=tot-1)
    {
        atr[p]=t[j];
        j++;
        p++;
    }
    atr[p]=t[j];
    p++;
    i=0;

    while(p!=(n+3) && t[i]!=h)
    {
        atr[p]=t[i];
        i++;
        p++;
    }
}
```


}

OUTPUT

Enter the no. of tracks to be traversed : 8

```
Enter the position of head : 50
```

Enter the total tracks : 200

Enter the tracks : 176 79 34 60 92 11 41 114

Track traversed	Difference b/w tracks
60	10
79	19
92	13
114	22
176	62
199	23
0	199
11	11
34	23
41	7

Total header movement = 389

Average header movement = 48.62

FIFO

```
#include <stdio.h>
int main()
{
    int referenceString[10], pageFaults = 0, m, n, s, pages, frames;
    printf("\nEnter the number of Pages:\t");
    scanf("%d", &pages);
    printf("\nEnter reference string values:\t");
    for(m = 0; m < pages; m++)
    {
        // printf("Value No. [%d]:\t", m + 1);
        scanf("%d", &referenceString[m]);
    }
    printf("\n What are the total number of frames:\t");
    {
        scanf("%d", &frames);
    }
    int temp[frames];
    for(m = 0; m < frames; m++)
    {
        temp[m] = -1;
    }
    for(m = 0; m < pages; m++)
    {
        s = 0;
        for(n = 0; n < frames; n++)
        {
            if(referenceString[m] == temp[n])
            {
                s++;
                pageFaults--;
            }
        }
        pageFaults++;
        if((pageFaults <= frames) && (s == 0))
        {
            temp[m] = referenceString[m];
        }
        else if(s == 0)
        {
            temp[(pageFaults - 1) % frames] = referenceString[m];
        }
        printf("\n");
        for(n = 0; n < frames; n++)
        {
            printf("%d\t", temp[n]);
        }
    }
    printf("\nTotal Page Faults:\t%d\n", pageFaults);
    return 0;
}
```

OUTPUT

```
Enter the number of Pages:      5

Enter reference string values: 4      1      2      4      5

What are the total number of frames: 3
```

4	-1	-1
4	1	-1
4	1	2
4	1	2
5	1	2
Total Page Faults:		
		4

LRU

```
#include<stdio.h>

int findLRU(int time[], int n){
int i, minimum = time[0], pos = 0;

for(i = 1; i < n; ++i){
if(time[i] < minimum){
minimum = time[i];
pos = i;
}
}
return pos;
}

int main()
{
    int no_of_frames, no_of_pages, frames[10], pages[30], counter = 0,
time[10], flag1, flag2, i, j, pos, faults = 0;
printf("Enter number of frames: ");
scanf("%d", &no_of_frames);
printf("Enter number of pages: ");
scanf("%d", &no_of_pages);
printf("Enter reference string: ");
    for(i = 0; i < no_of_pages; ++i){
        scanf("%d", &pages[i]);
    }

for(i = 0; i < no_of_frames; ++i){
    frames[i] = -1;
}

    for(i = 0; i < no_of_pages; ++i){
        flag1 = flag2 = 0;

        for(j = 0; j < no_of_frames; ++j){
            if(frames[j] == pages[i]){
                counter++;
                time[j] = counter;
                flag1 = flag2 = 1;
                break;
            }
        }

        if(flag1 == 0){
for(j = 0; j < no_of_frames; ++j){
            if(frames[j] == -1){
                counter++;
                faults++;
                frames[j] = pages[i];
                time[j] = counter;
                flag2 = 1;
                break;
            }
        }

        if(flag2 == 0){
            pos = findLRU(time, no_of_frames);
            counter++;
        }
    }
}
```

```

        faults++;
        frames[pos] = pages[i];
        time[pos] = counter;
    }

    printf("\n");

    for(j = 0; j < no_of_frames; ++j){
        printf("%d\t", frames[j]);
    }
}
printf("\n\nTotal Page Faults = %d", faults);

    return 0;
}

```

OUTPUT

```

Enter number of frames: 3
Enter number of pages: 6
Enter reference string: 5      7      5      6      7      3

5      -1      -1
5      7      -1
5      7      -1
5      7      6
5      7      6
3      7      6

Total Page Faults = 4

```

LFU

```
#include<stdio.h>
int main()
{
    int f,p;
    int pages[50],frame[10],hit=0,count[50],time[50];
    int i,j,page,flag,least,minTime,temp;
    printf("Enter no of frames : ");
    scanf("%d",&f);
    printf("Enter no of pages : ");
    scanf("%d",&p);
    for(i=0;i<f;i++)
    {
        frame[i]=-1;
    }
    for(i=0;i<50;i++)
    {
        count[i]=0;
    }
    printf("Enter page no : \n");
    for(i=0;i<p;i++)
    {
        scanf("%d",&pages[i]);
    }
    printf("\n");
    for(i=0;i<p;i++)
    {
        count[pages[i]]++;
        time[pages[i]]=i;
        flag=1;
        least=frame[0];
        for(j=0;j<f;j++)
        {
            if(frame[j]==-1 || frame[j]==pages[i])
            {
                if(frame[j]!=-1)
                {
                    hit++;
                }
                flag=0;

                frame[j]=pages[i];
                break;
            }
            if(count[least]>count[frame[j]])
            {
                least=frame[j];
            }
        }
        if(flag)
        {
            minTime=50;
            for(j=0;j<f;j++)
            {
                if(count[frame[j]]==count[least] &&
time[frame[j]]<minTime)
                {
                    temp=j;
                    minTime=time[frame[j]];
                }
            }
        }
    }
}
```

```

        }
        count[frame[temp]]=0;
        frame[temp]=pages[i];
    }
    for(j=0;j<f;j++)
    {
        printf("%d ",frame[j]);
    }
    printf("\n");
}
printf("Page hit = %d",hit);
return 0;
}

```

OUTPUT

Enter no of frames : 3

Enter no of pages : 7

Enter page no :

1 2 3 4 2 1 5

1 -1 -1

1 2 -1

1 2 3

4 2 3

4 2 3

4 2 1

5 2 1

Page hit = 1