Slip no 15

q.1

#include<stdio.h>

#include<stdlib.h>

void main()

{

int f[50],p,i,st,len,j,c,k,a;

for(i=0;i<50;i++)

f[i]=0;

printf("Enter how many blocks already allocated:");

scanf("%d",&p);

printf("Enter blocks already allocated:");

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

{

scanf("%d",&a);

f[a]=1;

}

x:printf("Enter index starting block and length:");

scanf("%d%d",&st,&len);

k=len;

if(f[st]==0)

{

for(j=st;j<(st+k);j++)

{

if(f[j]==0)

{

f[j]=1;

printf("%d------>%d\n",j,f[j]);

}

else

{

printf("%dBlock is already allocated\n",j);

k++;

}

}

}

else

printf("%d starting block is already allocated\n",st);

printf("Do you want to enter more file(Yes-1/No-0)");

scanf("%d",&c);

if(c==1)

goto x;

else

exit(0);

getch();

}

q.2

#include<stdio.h>

#include<stdlib.h>

int main()

{

int RQ[100],i,j,n,TotalHeadMoment=0,initial,size,move;

printf("Enter the number of Requests\n");

scanf("%d",&n);

printf("Enter the Requests sequence\n");

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

scanf("%d",&RQ[i]);

printf("Enter initial head position\n");

scanf("%d",&initial);

printf("Enter total disk size\n");

scanf("%d",&size);

printf("Enter the head movement direction for high 1 and for low 0\n");

scanf("%d",&move);

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

{

for( j=0;j<n-i-1;j++)

{

if(RQ[j]>RQ[j+1])

{

int temp;

temp=RQ[j];

RQ[j]=RQ[j+1];

RQ[j+1]=temp;

}

}

}

int index;

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

{

if(initial<RQ[i])

{

index=i;

break;

}

}

if(move==1)

{

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

{

TotalHeadMoment=TotalHeadMoment+abs(RQ[i]-initial);

initial=RQ[i];

}

TotalHeadMoment=TotalHeadMoment+abs(size-RQ[i-1]-1);

TotalHeadMoment=TotalHeadMoment+abs(size-1-0);

initial=0;

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

{

TotalHeadMoment=TotalHeadMoment+abs(RQ[i]-initial);

initial=RQ[i];

}

}

else

{

for(i=index-1;i>=0;i--)

{

TotalHeadMoment=TotalHeadMoment+abs(RQ[i]-initial);

initial=RQ[i];

}

TotalHeadMoment=TotalHeadMoment+abs(RQ[i+1]-0);

TotalHeadMoment=TotalHeadMoment+abs(size-1-0);

initial =size-1;

for(i=n-1;i>=index;i--)

{

TotalHeadMoment=TotalHeadMoment+abs(RQ[i]-initial);

initial=RQ[i];

}

}

printf("Total head movement is %d",TotalHeadMoment);

return 0;

}