To implement indexed file allocation strategy

Program:

```
#include<stdio.h>
int main()
{
int n,m[20],i,j,index[20],s[20],b[20][20],x;
printf("enter no of files");
scanf("%d",&n);
for(i=0;i<n;i++)
{
printf("enter index block of file %d:",i+1);
scanf("%d",&index[i]);
printf("enter no of blocks occupied by file %d " ,i+1);
scanf("%d",&m[i]);
printf("enter blocks of file %d:",i+1);
for(j=0;j<m[i];j++)
scanf("%d",&b[i][j]);
}
printf("\nfile\tindex\tlength\n");
for(i=0;i<n;i++)
{
printf("%d\t%d\t%d\n",i+1,index[i],m[i]);
}
printf("\nenter file name");
scanf("%d",&x);
```

```
printf("file name is:%d\n",x);
i=x-1;
printf("index is:%d\n",index[i]);
printf("block occupied are:\n");
for(j=0;j<m[i];j++)
printf("%3d->%d\n",index[i],b[i][j]);
return 0;
}
```

Output:

```
#include<stdio.h>
int main()
{
int n,m[20],i,j,index[20],s[20],b[20][20],x;
printf("enter no of files");
scanf("%d",&n);
for(i=0;i<n;i++)
{
printf("enter index block of file %d:",i+1);
scanf("%d",&index[i]);
printf("enter no of blocks occupied by file %d " ,i+1);
scanf("%d",&m[i]);
printf("enter blocks of file %d:",i+1);
for(j=0;j<m[i];j++)
```

```
scanf("%d",&b[i][j]);

}

printf("\nfile\tindex\tlength\n");

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

{

printf("%d\t%d\t%d\n",i+1,index[i],m[i]);

}

printf("\nenter file name");

scanf("%d",&x);

printf("file name is:%d\n",x);

i=x-1;

printf("index is:%d\n",index[i]);

printf("block occupied are:\n");

for(j=0;j<m[i];j++)

printf("%3d->%d\n",index[i],b[i][j]);

return 0;

}
```

Output: