9. Simulate the 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("\n enter filename:");
scanf("%d",&x);
printf(" filename 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:

```
   2->10
[20A91A0586@Linux ~]$ cc index.c
[20A91A0586@Linux ~]$ ./a.out
 enter no of files: 3
enter index block of file1 5
 enter no of blocks occupied by file 1 3
 enter blocks  of file 1 3 6 9
enter index block of file2 8
 enter no of blocks occupied by file 2 4
 enter blocks  of file 2 2 5 10 13
enter index block of file3 7
 enter no of blocks occupied by file 3 3
 enter blocks  of file 3 1  8 12

file    index   length
1       5       3
2       8       4
3       7       3

 enter filename:2
 filename is 2
index is 8
 block occupied are:
   8->2
   8->5
   8->10
   8->13
[20A91A0586@Linux ~]$
```

. Simulate the linked file allocation strategy