

```
1  #include<stdio.h>
2  int main()
3  {
4      char name[10][30];
5      int start[10], length[10], num;
6      printf("Enter the number of files to be allocated\n");
7      scanf("%d", &num);
8      int count=0, k, j;
9      for(int i=0; i<num; i++)
10     {
11         printf("Enter the name of the file %d\n", i+1);
12         scanf("%s", &name[i][0]);
13         printf("Enter the start block of the file %d\n", i+1);
14         scanf("%d", &start[i]);
15         printf("Enter the length of the file %d\n", i+1);
16         scanf("%d", &length[i]);
17
18         for(j=0, k=1; j<num && k<num; j++, k++)
19         {
20             if(start[j+1]<=start[j] || start[j+1]>=length[j])
21             {
22
23             }
24             else
25             {
26                 count++;
27             }
28         }
29         if(count==1)
30         {
31             printf("%s cannot be allocated disk space\n", name[i]);
32         }
33     }
```

```
16     scanf("%d",&length[i]);
17
18     for(j=0,k=1;j<num && k<num;j++,k++)
19     {
20         if(start[j+1]<=start[j] || start[j+1]>=length[j])
21             ;
22
23         else
24         {
25             count++;
26         }
27     }
28
29     if(count==1)
30     {
31         printf("%s cannot be allocated disk space\n",name[i]);
32     }
33 }
34 printf("File Allocation Table\n");
35 printf("%s%40s%40s\n","File Name","Start Block","Length");
36 printf("%s%50d%50d\n",name[0],start[0],length[0]);
37
38 for(int i=0,j=1;i<num && j<num;i++,j++)
39 {
40     if(start[i+1]<=start[i] || start[i+1]>=length[i])
41     {
42         printf("%s%50d%50d\n",name[j],start[j],length[j]);
43     }
44 }
45 return 0;
46 }
47
```

C:\Users\kadiv\OneDrive\Documents\file allocation.exe

Enter the number of files to be allocated

3

Enter the name of the file 1

laptop1

Enter the start block of the file 1

2

Enter the length of the file 1

3

Enter the name of the file 2

laptop2

Enter the start block of the file 2

6

Enter the length of the file 2

10

Enter the name of the file 3

laptop3

Enter the start block of the file 3

15

Enter the length of the file 3

1

File Allocation Table

File Name	Start Block	Length
laptop1	2	3
laptop2	6	10
laptop3	15	1

Process exited after 35.05 seconds with return value 0

Press any key to continue . . .



ENG
IN



20:31
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