PES UNIVERSITY

UE19CS336
Digital Forensics

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Table of Contents :

```c
1    #include<stdio.h>
2    #include<stdlib.h>
3    void main()
4    {
5     FILE* f;
6    f = fopen("vbr", "r"); // file descriptor
7
8    if (f == NULL)
9     {
10           printf("Unable to open the file, exiting");
11        exit(0);
12        }
13
14   unsigned char c;
15   int i;
16   printf("Instruction to jump to Bootstrap program\n");
17   for(i=0;i<3;i++)
18   {
19   c= fgetc(f);
20   printf("%x ",c);
21   }
22
23   printf("\n");
24   printf("--------------------------\n");
25
26
27
28   printf("OEM name/version\n");
29   for(i=3;i<11;i++)
30   {
31   c= fgetc(f);
32   printf("%c",c);
33   }
34   printf("\n");
35   printf("--------------------------\n");
36
37
38
39   printf("Number of bytes per sector\n");
40   for(i=11;i<13;i++)
41   {
42   c= fgetc(f);
43   printf("%x ",c);
44   }
45   printf("\n");
46   printf("--------------------------\n");
47
48
49
50   printf("Number of sectors per cluster\n");
51
52   c= fgetc(f);
53   printf("%x ",c);
54
55   printf("\n");
56   printf("--------------------------\n");
57
58
59   printf("Number of reserved sectors\n");
60   for(i=14;i<16;i++)
61   {
62   c= fgetc(f);
63   printf("%x ",c);
64   }
65   printf("\n");
66   printf("--------------------------\n");
67
68
69   printf("Number of FAT copies\n");
```

```c
70
71    c= fgetc(f);
72    printf("%x ",c);
73
74    printf("\n");
75    printf("--------------------------\n");
76
77
78    printf("Number of root directory entries\n");
79    for(i=17;i<19;i++)
80    {
81    c= fgetc(f);
82    printf("%x ",c);
83    }
84    printf("\n");
85    printf("--------------------------\n");
86
87
88
89    printf("Total number of sectors in the filesystem\n");
90    for(i=19;i<21;i++)
91    {
92    c= fgetc(f);
93    printf("%x ",c);
94    }
95    printf("\n");
96    printf("--------------------------\n");
97
98    printf("Media descriptor type\n");
99
100   c= fgetc(f);
101   printf("%x ",c);
102
103   printf("\n");
104   printf("--------------------------\n");
105
106
107
108   printf("Number of sectors per FAT\n");
109   for(i=22;i<24;i++)
110   {
111   c= fgetc(f);
112   printf("%x ",c);
113   }
114   printf("\n");
115   printf("--------------------------\n");
116
117   printf("Number of sectors per track\n");
118   for(i=24;i<26;i++)
119   {
120   c= fgetc(f);
121   printf("%x ",c);
122   }
123   printf("\n");
124   printf("--------------------------\n");
125
126   printf("Number of heads\n");
127   for(i=26;i<28;i++)
128   {
129   c= fgetc(f);
130   printf("%x ",c);
131   }
132   printf("\n");
133   printf("--------------------------\n");
134
135   printf("Number of hidden sectors\n");
136   for(i=28;i<30;i++)
137   {
138   c= fgetc(f);
```

```c
139    printf("%x ",c);
140    }
141    printf("\n");
142    printf("--------------------------\n");
143
144
145
146    printf("Bootstrap\n");
147    for(i=30;i<33;i++)
148    {
149    c= fgetc(f);
150    printf("%x ",c);
151    }
152    printf("\n");
153    printf("--------------------------\n");
154
155    }
156
157
```

Output :

```
asdf@kali:~$ gcc PES2UG19CS412.c
asdf@kali:~$ ./a.out
Instruction to jump to Bootstrap program
eb 58 90
--------------------------
OEM name/version
MSDOS5.0
--------------------------
Number of bytes per sector
0 2
--------------------------
Number of sectors per cluster
20
--------------------------
Number of reserved sectors
92 c
--------------------------
Number of FAT copies
2
--------------------------
Number of root directory entries
0 0
--------------------------
Total number of sectors in the filesystem
0 0
--------------------------
Media descriptor type
f8
--------------------------
Number of sectors per FAT
0 0
--------------------------
Number of sectors per track
3f 0
--------------------------
Number of heads
ff 0
--------------------------
Number of hidden sectors
3f 0
--------------------------
Bootstrap
0 0 81
```

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