

Sample Output for Assignment 7: File Allocation

Beginning of the FAT simulation

Directory Listing

```
File name: .           File Size:  512
Cluster(s) in use:      0
File name: ..          File Size:    0
Cluster(s) in use:  (none)
Files:  2  Total Size:  512 bytes
```

Contents of the File Allocation Table

#000-011	-1	0	0	0	0	0	0	0	0	0	0	0
#012-023	0	0	0	0	0	0	0	0	0	0	0	0
#024-035	0	0	0	0	0	0	0	0	0	0	0	0
#036-047	0	0	0	0	0	0	0	0	0	0	0	0
#048-059	0	0	0	0	0	0	0	0	0	0	0	0
#060-071	0	0	0	0	0	0	0	0	0	0	0	0
#072-083	0	0	0	0	0	0	0	0	0	0	0	0
#084-095	0	0	0	0	0	0	0	0	0	0	0	0
#096-107	0	0	0	0	0	0	0	0	0	0	0	0
#108-119	0	0	0	0	0	0	0	0	0	0	0	0
#120-131	0	0	0	0	0	0	0	0	0	0	0	0
#132-143	0	0	0	0	0	0	0	0	0	0	0	0
#144-155	0	0	0	0	0	0	0	0	0	0	0	0
#156-167	0	0	0	0	0	0	0	0	0	0	0	0
#168-179	0	0	0	0	0	0	0	0	0	0	0	0
#180-191	0	0	0	0	0	0	0	0	0	0	0	0
#192-203	0	0	0	0	0	0	0	0	0	0	0	0
#204-215	0	0	0	0	0	0	0	0	0	0	0	0
#216-227	0	0	0	0	0	0	0	0	0	0	0	0
#228-239	0	0	0	0	0	0	0	0	0	0	0	0

```
Transaction:  Add a new file
Successfully added a new file, Almond.nut, of size 41
Transaction:  Add a new file
Successfully added a new file, Apple.pie, of size 3227
Transaction:  Add a new file
Successfully added a new file, Banana.split, of size 6334
Transaction:  Modify a file
Successfully modified a file, Almond.nut
Transaction:  Modify a file
Successfully modified a file, Banana.split
```

Directory Listing

```
File name: .           File Size:  512
Cluster(s) in use:      0
File name: ..          File Size:    0
Cluster(s) in use:  (none)
File name: Apple.pie   File Size: 3227
Cluster(s) in use:      2      3      4      5      6      7      8
File name: Almond.nut  File Size:  729
Cluster(s) in use:     22     23
File name: Banana.split File Size: 9000
Cluster(s) in use:      1     24     25     26     27     28     29     30     31     32     33     34
                       35     36     37     38     39     40
Files:  5  Total Size: 13468 bytes
```

Contents of the File Allocation Table

```
Transaction: Copy a file
Successfully copied an existing file, Apple.pie, to a new file, Pie.apple
Transaction: Rename a file
Successfully changed the file name Almond.nut to Nut.almond
Transaction: Add a new file
Successfully added a new file, Crisp.bacon, of size 1879
Transaction: Delete a file
Successfully deleted a file, Apple.pie
Transaction: Modify a file
Successfully modified a file, Crisp.bacon
```

```

File name: .           File Size: 512
Cluster(s) in use:      0
File name: ..          File Size: 0
Cluster(s) in use:      (none)
File name: Nut.almond   File Size: 729
Cluster(s) in use:      22    23
File name: Banana.split File Size: 9000
Cluster(s) in use:      1    24    25    26    27    28    29    30    31    32    33    34
                        35    36    37    38    39    40
File name: Pie.apple     File Size: 3227
Cluster(s) in use:      9    10    11    12    13    14    15
File name: Crisp.bacon   File Size: 752
Cluster(s) in use:      2    3
Files: 6 Total Size: 14220 bytes

```

[illegible]

#168-179	0	0	0	0	0	0	0	0	0	0	0	0
#180-191	0	0	0	0	0	0	0	0	0	0	0	0
#192-203	0	0	0	0	0	0	0	0	0	0	0	0
#204-215	0	0	0	0	0	0	0	0	0	0	0	0
#216-227	0	0	0	0	0	0	0	0	0	0	0	0
#228-239	0	0	0	0	0	0	0	0	0	0	0	0

(and later on)

Transaction: Add a new file
 Successfully added a new file, Jello.mold, of size 0
 Transaction: Add a new file
 Successfully added a new file, Tangerine, of size 1671
 Transaction: Modify a file
 Successfully modified a file, Tangerine
 Transaction: Rename a file
 Successfully changed the file name Pear to Pear.sauce
 Transaction: Add a new file
 Successfully added a new file, Walnut.nut, of size 4364

Directory Listing

File name: .			File Size: 1536									
Cluster(s) in use:	0	19	171									
File name: ..			File Size: 0									
Cluster(s) in use:	(none)											
File name: Pie.apple			File Size: 3227									
Cluster(s) in use:	9	10	11	12	13	14	15					
File name: Crisp.bacon			File Size: 752									
Cluster(s) in use:	2	3										
File name: Bubble.gum			File Size: 0									
Cluster(s) in use:	(none)											
File name: Candy.bar			File Size: 513									
Cluster(s) in use:	4	5										
File name: Small.bite			File Size: 0									
Cluster(s) in use:	(none)											
File name: Nut.almond			File Size: 728									
Cluster(s) in use:	1	6										
File name: Banana.split			File Size: 4871									
Cluster(s) in use:	51	52	53	54	55	56	57	58	59	60		
File name: Cashew.nut			File Size: 4468									
Cluster(s) in use:	35	36	37	38	39	40	49	50	62			
File name: Muskmelon			File Size: 3939									
Cluster(s) in use:	91	92	93	94	95	96	97	98				
File name: Date			File Size: 9193									
Cluster(s) in use:	20	21	41	42	43	44	45	46	47	48	61	89
	90	119	120	121	122	123						
File name: Blueberry.pie			File Size: 4220									
Cluster(s) in use:	17	18	22	23	24	25	26	63	64			
File name: Kumquat.what			File Size: 1									
Cluster(s) in use:	84											
File name: Filbert.nut			File Size: 3411									
Cluster(s) in use:	27	28	29	30	31	32	33					
File name: Grape.jelly			File Size: 5705									
Cluster(s) in use:	34	65	66	67	68	69	111	112	113	114	115	116
File name: Hazelnut.nut			File Size: 3411									
Cluster(s) in use:	117	118	124	125	126	127	128					
File name: Pear.sauce			File Size: 9961									
Cluster(s) in use:	70	71	72	73	74	75	76	77	78	79	80	81
	82	83	142	143	144	145	146	147				
File name: Cantelope			File Size: 9969									
Cluster(s) in use:	148	149	150	151	152	153	154	155	156	157	158	159

	160	161	162	163	164	165	166	167						
File name:	Plum.cake				File Size:	2995								
Cluster(s) in use:	8	16	85	86	87	88								
File name:	Pumpkin.pie				File Size:	1702								
Cluster(s) in use:	99	100	101	102										
File name:	Pecan.nut				File Size:	892								
Cluster(s) in use:	103	104												
File name:	Raspberry.jam				File Size:	4827								
Cluster(s) in use:	7	105	106	107	108	109	110	168	169	170				
File name:	Lemon.tart				File Size:	0								
Cluster(s) in use:	(none)													
File name:	Peanut.butter				File Size:	8233								
Cluster(s) in use:	172	173	174	175	176	177	178	179	180	181	182	183		
	184	185	186	187	188									
File name:	Strawberry.jam				File Size:	5436								
Cluster(s) in use:	129	130	131	132	133	134	135	136	137	138	139			
File name:	Jello.mold				File Size:	0								
Cluster(s) in use:	(none)													
File name:	Tangerine				File Size:	1011								
Cluster(s) in use:	191	192												
File name:	Walnut.nut				File Size:	4364								
Cluster(s) in use:	140	141	189	190	193	194	195	196	197					
Files:	29	Total Size:	95365	bytes										

Contents of the File Allocation Table

#000-011	19	6	3	-1	5	-1	-1	105	16	10	11	12
#012-023	13	14	15	-1	85	18	22	171	21	41	23	24
#024-035	25	26	63	28	29	30	31	32	33	-1	65	36
#036-047	37	38	39	40	49	42	43	44	45	46	47	48
#048-059	61	50	62	52	53	54	55	56	57	58	59	60
#060-071	-1	89	-1	64	-1	66	67	68	69	111	71	72
#072-083	73	74	75	76	77	78	79	80	81	82	83	142
#084-095	-1	86	87	88	-1	90	119	92	93	94	95	96
#096-107	97	98	-1	100	101	102	-1	104	-1	106	107	108
#108-119	109	110	168	112	113	114	115	116	-1	118	124	120
#120-131	121	122	123	-1	125	126	127	128	-1	130	131	132
#132-143	133	134	135	136	137	138	139	-1	141	189	143	144
#144-155	145	146	147	-1	149	150	151	152	153	154	155	156
#156-167	157	158	159	160	161	162	163	164	165	166	167	-1
#168-179	169	170	-1	-1	173	174	175	176	177	178	179	180
#180-191	181	182	183	184	185	186	187	188	-1	190	193	192
#192-203	-1	194	195	196	197	-1	0	0	0	0	0	0
#204-215	0	0	0	0	0	0	0	0	0	0	0	0
#216-227	0	0	0	0	0	0	0	0	0	0	0	0
#228-239	0	0	0	0	0	0	0	0	0	0	0	0

Transaction: Modify a file
 Successfully modified a file, Tangerine
 Transaction: Add a new file
 Successfully added a new file, Watermelon.seed, of size 3902

End of the FAT simulation

Directory Listing

File name:	.			File Size:	1536
Cluster(s) in use:	0	19	171		
File name:	..			File Size:	0
Cluster(s) in use:	(none)				
File name:	Pie.apple			File Size:	3227
Cluster(s) in use:	9	10	11	12	13
File name:	Crisp.bacon			File Size:	752
Cluster(s) in use:	2	3			
File name:	Bubble.gum			File Size:	0

```

Cluster(s) in use: (none)
File name: Candy.bar      File Size: 513
Cluster(s) in use:      4      5
File name: Small.bite     File Size: 0
Cluster(s) in use: (none)
File name: Nut.almond     File Size: 728
Cluster(s) in use:      1      6
File name: Banana.split   File Size: 4871
Cluster(s) in use:      51     52     53     54     55     56     57     58     59     60
File name: Cashew.nut     File Size: 4468
Cluster(s) in use:      35     36     37     38     39     40     49     50     62
File name: Muskmelon      File Size: 3939
Cluster(s) in use:      91     92     93     94     95     96     97     98
File name: Date           File Size: 9193
Cluster(s) in use:      20     21     41     42     43     44     45     46     47     48     61     89
                       90     119    120    121    122    123
File name: Blueberry.pie  File Size: 4220
Cluster(s) in use:      17     18     22     23     24     25     26     63     64
File name: Kumquat.what   File Size: 1
Cluster(s) in use:      84
File name: Filbert.nut    File Size: 3411
Cluster(s) in use:      27     28     29     30     31     32     33
File name: Grape.jelly    File Size: 5705
Cluster(s) in use:      34     65     66     67     68     69    111    112    113    114    115    116
File name: Hazelnut.nut   File Size: 3411
Cluster(s) in use:     117    118    124    125    126    127    128
File name: Pear.sauce     File Size: 9961
Cluster(s) in use:      70     71     72     73     74     75     76     77     78     79     80     81
                       82     83    142    143    144    145    146    147
File name: Cantelope      File Size: 9969
Cluster(s) in use:     148    149    150    151    152    153    154    155    156    157    158    159
                       160    161    162    163    164    165    166    167
File name: Plum.cake       File Size: 2995
Cluster(s) in use:      8      16     85     86     87     88
File name: Pumpkin.pie    File Size: 1702
Cluster(s) in use:      99    100    101    102
File name: Pecan.nut      File Size: 892
Cluster(s) in use:     103    104
File name: Raspberry.jam  File Size: 4827
Cluster(s) in use:      7    105    106    107    108    109    110    168    169    170
File name: Lemon.tart     File Size: 0
Cluster(s) in use: (none)
File name: Peanut.butter  File Size: 8233
Cluster(s) in use:     172    173    174    175    176    177    178    179    180    181    182    183
                       184    185    186    187    188
File name: Strawberry.jam  File Size: 5436
Cluster(s) in use:     129    130    131    132    133    134    135    136    137    138    139
File name: Jello.mold     File Size: 0
Cluster(s) in use: (none)
File name: Walnut.nut     File Size: 4364
Cluster(s) in use:     140    141    189    190    193    194    195    196    197
File name: Tangerine      File Size: 4100
Cluster(s) in use:     198    199    200    201    202    203    204    205    206
File name: Watermelon.seed File Size: 3902
Cluster(s) in use:     191    192    207    208    209    210    211    212
Files: 30 Total Size: 102356 bytes

```

Contents of the File Allocation Table

#000-011	19	6	3	-1	5	-1	-1	105	16	10	11	12
#012-023	13	14	15	-1	85	18	22	171	21	41	23	24
#024-035	25	26	63	28	29	30	31	32	33	-1	65	36
#036-047	37	38	39	40	49	42	43	44	45	46	47	48
#048-059	61	50	62	52	53	54	55	56	57	58	59	60

[illegible]