

a) Five new blocks are allocated

Block #	17	18
Next Block	18	0
	4589	24353
	43546	98745
	718	76345
	345	9877
		7345
		34535
		154698
		967
		8657

b) the block 22 is freed

Block #	17	18
Next Block	18	0
	4589	24353
	43546	98745
	718	76345
	345	9877
	22	7345
		34535
		154698
		967
		8657

c) another 5 blocks are allocated

Block #	17	18
Next Block	18	0
		24353
		98745
		76345
		9877
		7345
		34535
		154698
		967
		8657

d) another block is allocated

Block #	17	18
Next Block		0
		24353
		98745
		76345
		9877
		7345
		34535
		154698
		967
		8657

e) another three blocks are allocated

Block #	17	18
Next Block		0
		24353
		98745
		76345
		9877
		7345
		34535

f) four blocks are freed

Block #	17	18
Next Block	56	0
		24353
		98745
		76345
		9877
		7345
		34535
		23456
		8345345
		634534

## 2. Comparison

If the disk gets filled, the bitmap uses the same storage space while the linked list uses less space.