

1.

a)

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

b)

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

c)

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

d)

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

e)

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

f)

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

2)

if you have a big amount of blocks the linked list is smaller than the bitmap approach.