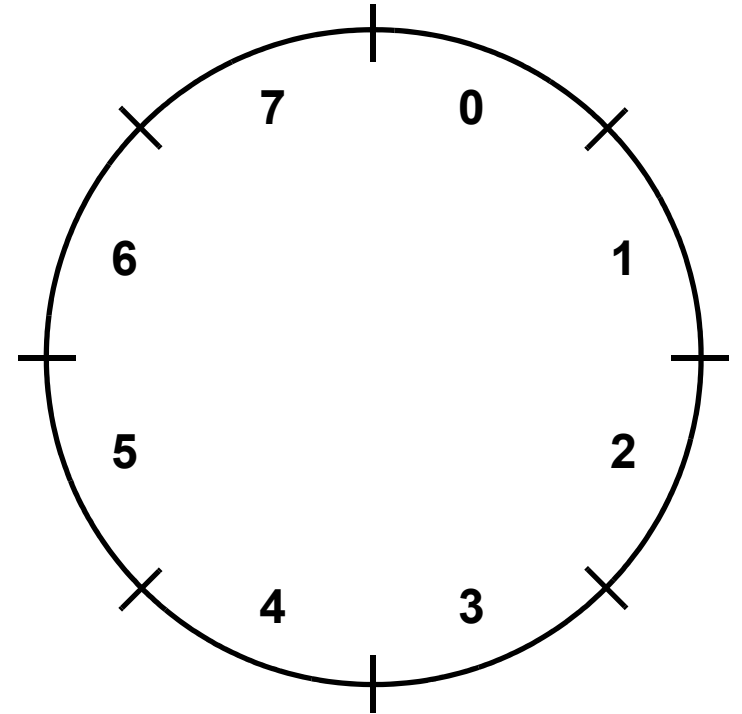


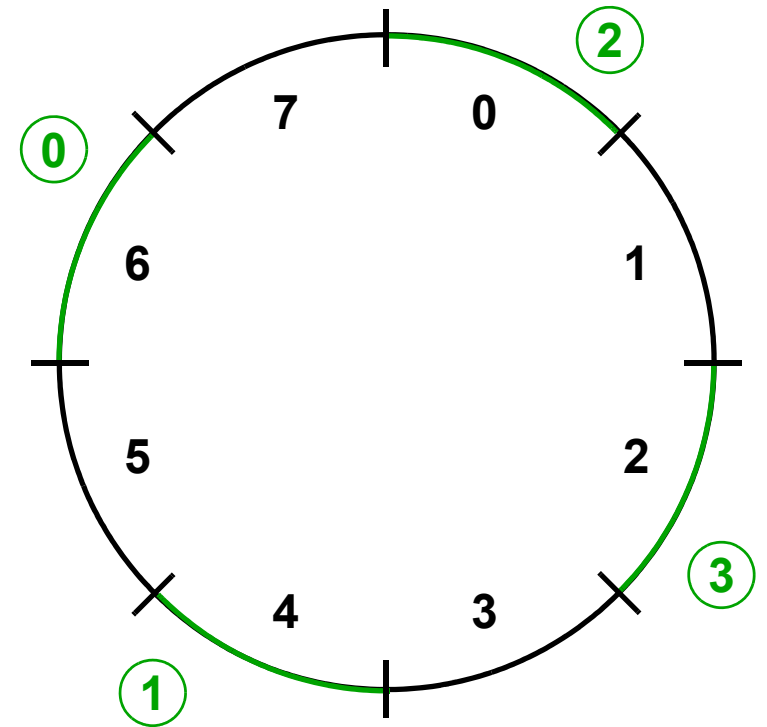
FAT Example:

A hard disk with 8 physical blocks:



## FAT Example:

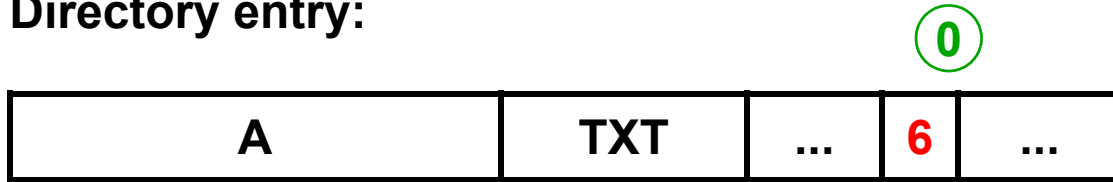
A hard disk with 8 physical blocks,  
a file with 4 logical blocks:



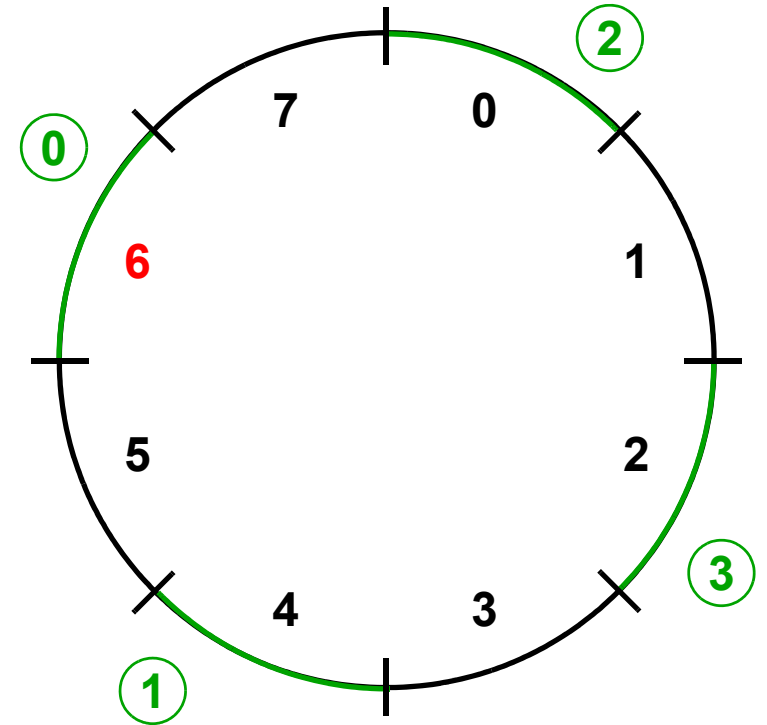
**(n)** = nth logical block  
of the file

## FAT Example:

Directory entry:



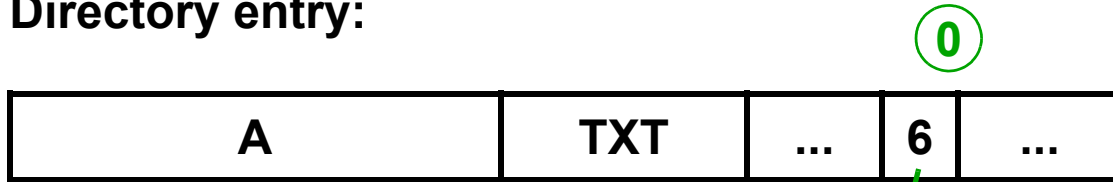
A hard disk with 8 physical blocks,  
a file with 4 logical blocks:



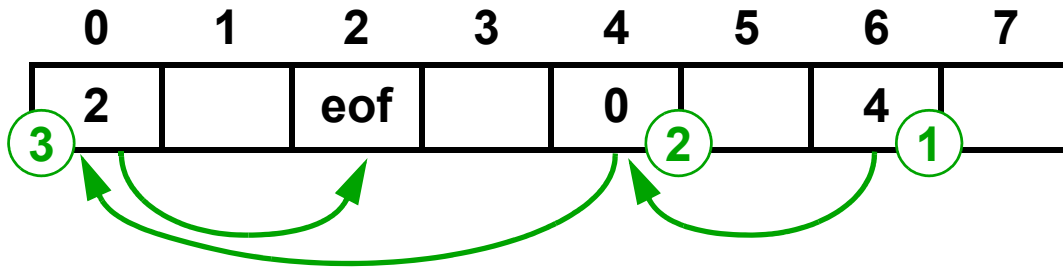
① = nth logical block  
of the file

## FAT Example:

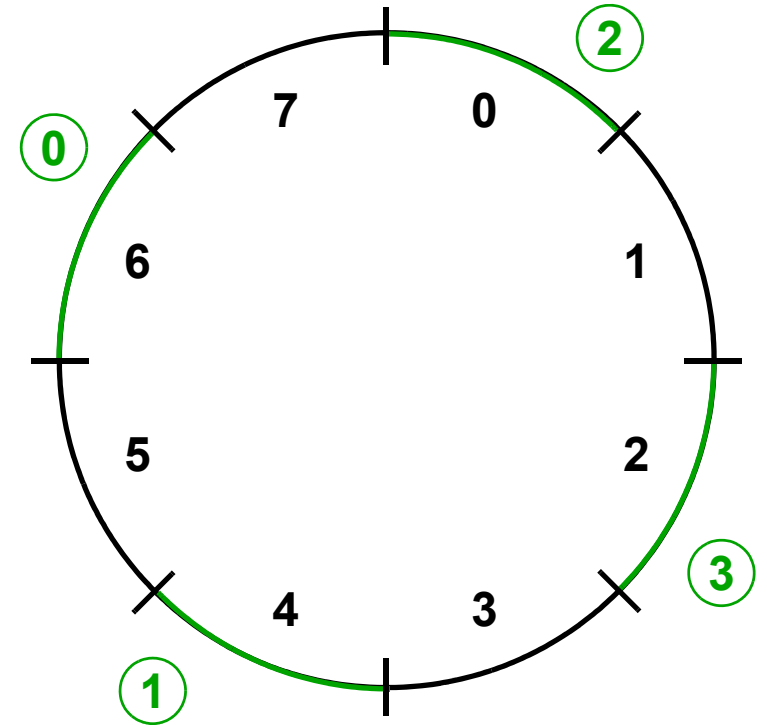
Directory entry:



FAT:



A hard disk with 8 physical blocks,  
a file with 4 logical blocks:



① = nth logical block  
of the file

## FAT Example:

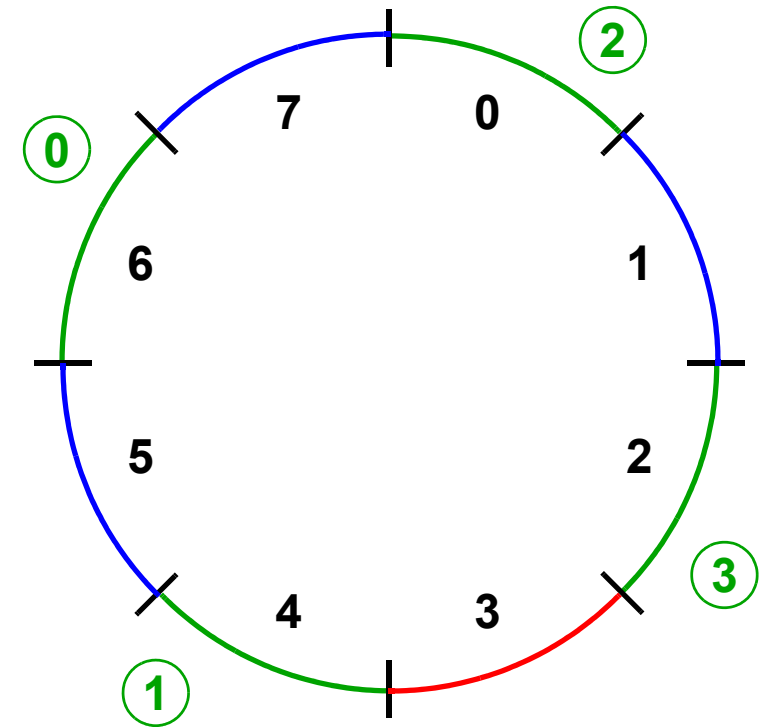
Directory entry:

A	TXT	...	6	...
---	-----	-----	---	-----

FAT:

0	1	2	3	4	5	6	7
2	free	eof	bad	0	free	4	free

A hard disk with 8 physical blocks,  
a file with 4 logical blocks:



**(n)** = nth logical block  
of the file

FAT Example:

*Now:  
Read logical byte 13000  
(assuming block size 4K)*

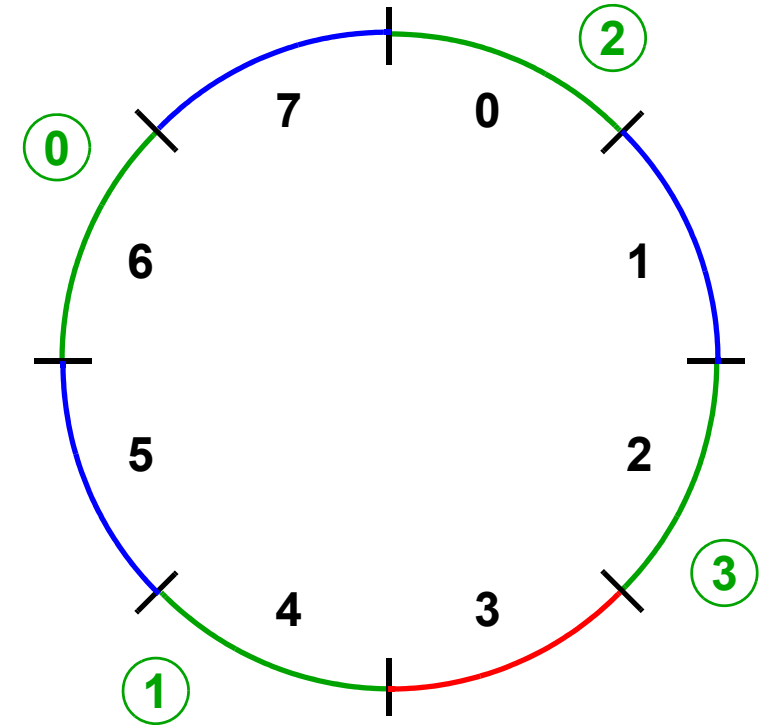
Directory entry:

A	TXT	...	6	...
---	-----	-----	---	-----

FAT:

0	1	2	3	4	5	6	7
2	free	eof	bad	0	free	4	free

A hard disk with 8 physical blocks,  
a file with 4 logical blocks:



**(n)** = nth logical block  
of the file

FAT Example:

*Now:  
Read logical byte 13000  
(assuming block size 4K)  
→ in logical block 3  
(because  $3 = 13000 / 4096$ )*

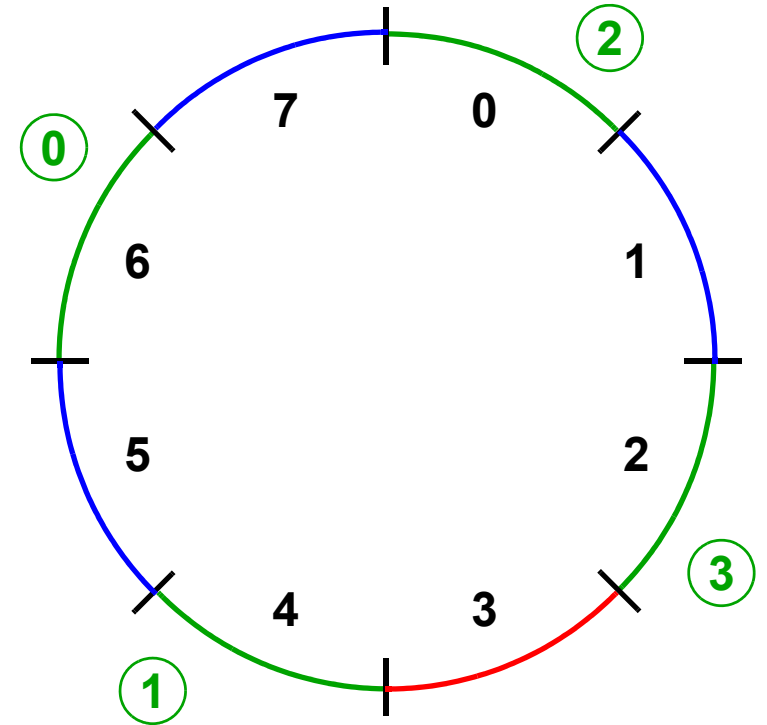
Directory entry:

A	TXT	...	6	...
---	-----	-----	---	-----

FAT:

0	1	2	3	4	5	6	7
2	free	eof	bad	0	free	4	free

A hard disk with 8 physical blocks,  
a file with 4 logical blocks:



**(n)** = nth logical block  
of the file

## FAT Example:

**Now:**  
**Read logical byte 13000**  
**(assuming block size 4K)**  
**→ in logical block 3**  
**(because  $3 = 13000 / 4096$ )**

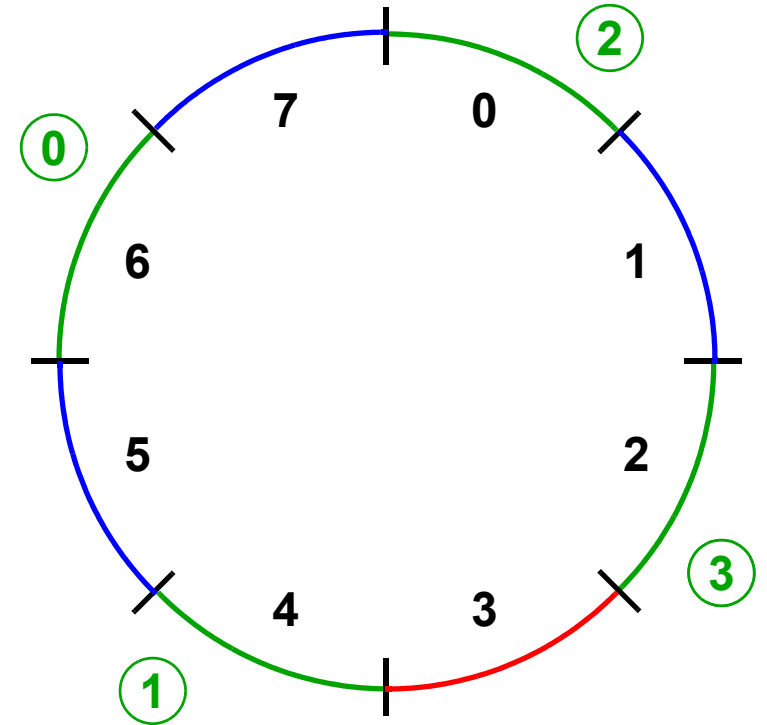
Directory entry:

A	TXT	...	6	...
---	-----	-----	---	-----

FAT:

0	1	2	3	4	5	6	7
2	free	eof	bad	0	free	4	free

A hard disk with 8 physical blocks,  
a file with 4 logical blocks:



**(n)** = nth logical block  
of the file



## FAT Example:

*Now:  
Read logical byte 13000  
(assuming block size 4K)  
→ in logical block 3  
(because  $3 = 13000 / 4096$ )*

Directory entry:

A	TXT	...	6	...
---	-----	-----	---	-----

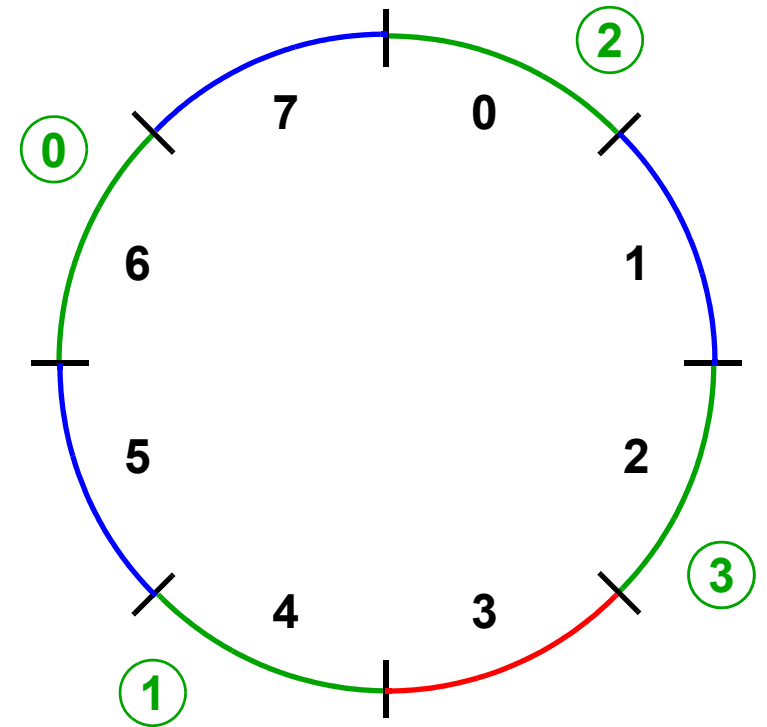
FAT:

0	1	2	3	4	5	6	7
2	free	eof	bad	0	free	4	free

①

②

A hard disk with 8 physical blocks,  
a file with 4 logical blocks:



① = nth logical block  
of the file

FAT Example:

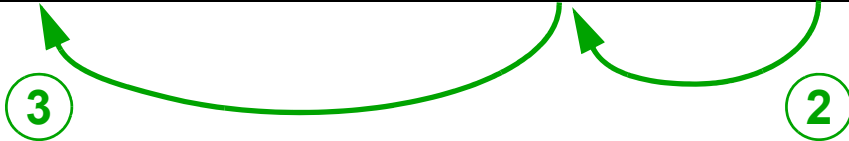
*Now:  
Read logical byte 13000  
(assuming block size 4K)  
→ in logical block 3  
(because  $3 = 13000 / 4096$ )*

Directory entry:

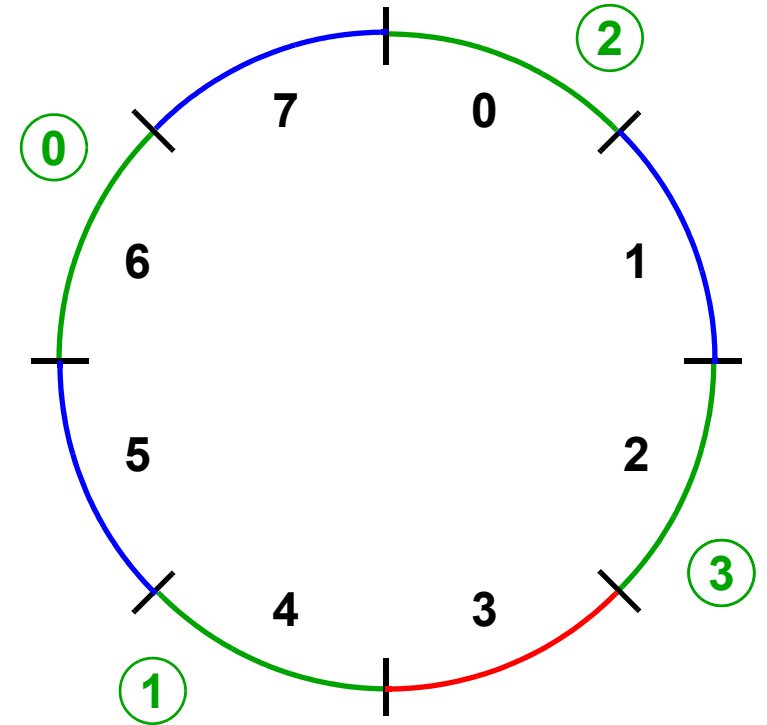
A	TXT	...	6	...
---	-----	-----	---	-----

FAT:

0	1	2	3	4	5	6	7
2	free	eof	bad	0	free	4	free



A hard disk with 8 physical blocks,  
a file with 4 logical blocks:



**(n)** = nth logical block  
of the file

FAT Example:

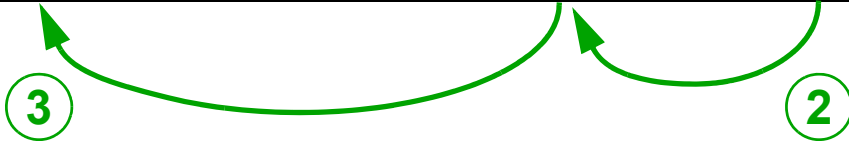
*Now:  
Read logical byte 13000  
(assuming block size 4K)  
→ in logical block 3  
(because  $3 = 13000 / 4096$ )*

Directory entry:

A	TXT	...	6	...
---	-----	-----	---	-----

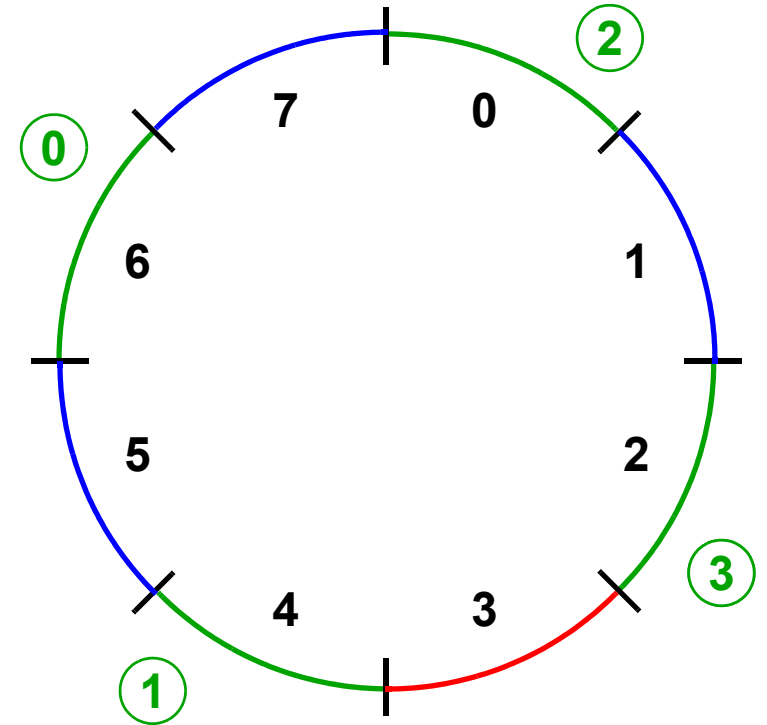
FAT:

0	1	2	3	4	5	6	7
2	free	eof	bad	0	free	4	free



*→ physical block 2,  
offset 712 (= 13000 mod 4096)*

A hard disk with 8 physical blocks,  
a file with 4 logical blocks:



**(n)** = nth logical block  
of the file