Example

r1

In use

On free list

Free list

Example

Mark Phase: mark nodes reachable from roots

r1

Free list

In use

On free list

Marked

Example

Mark Phase: mark nodes reachable from roots

r1

Free list

In use

On free list

Marked

Example

Mark Phase: mark nodes reachable from roots

r1

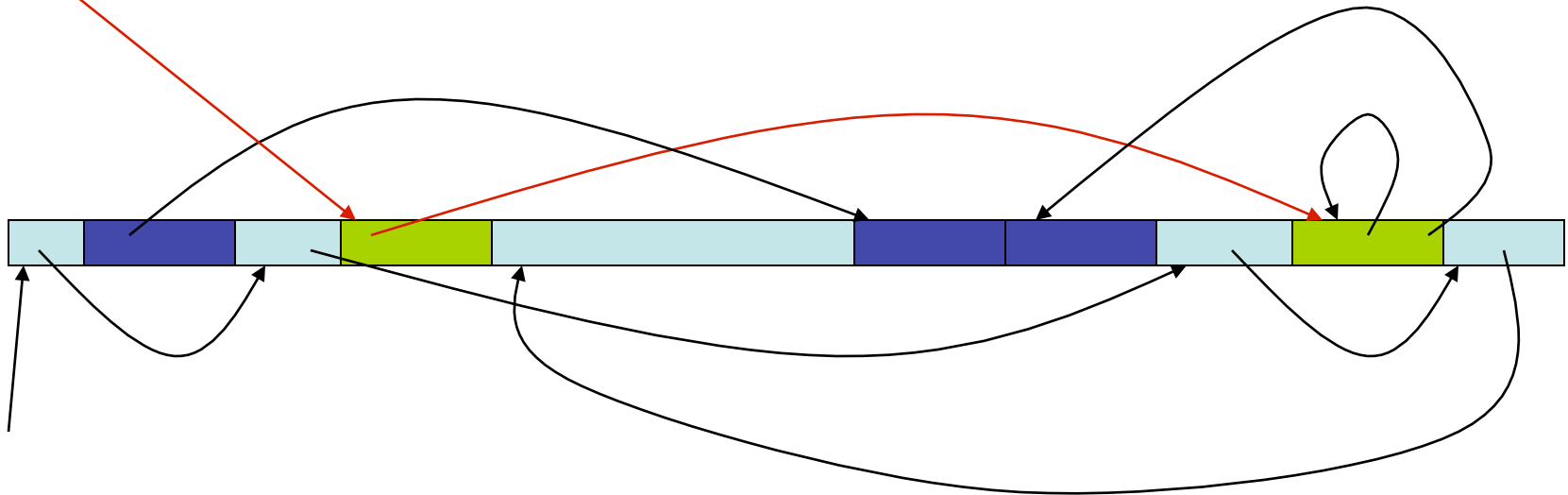Free list

In use
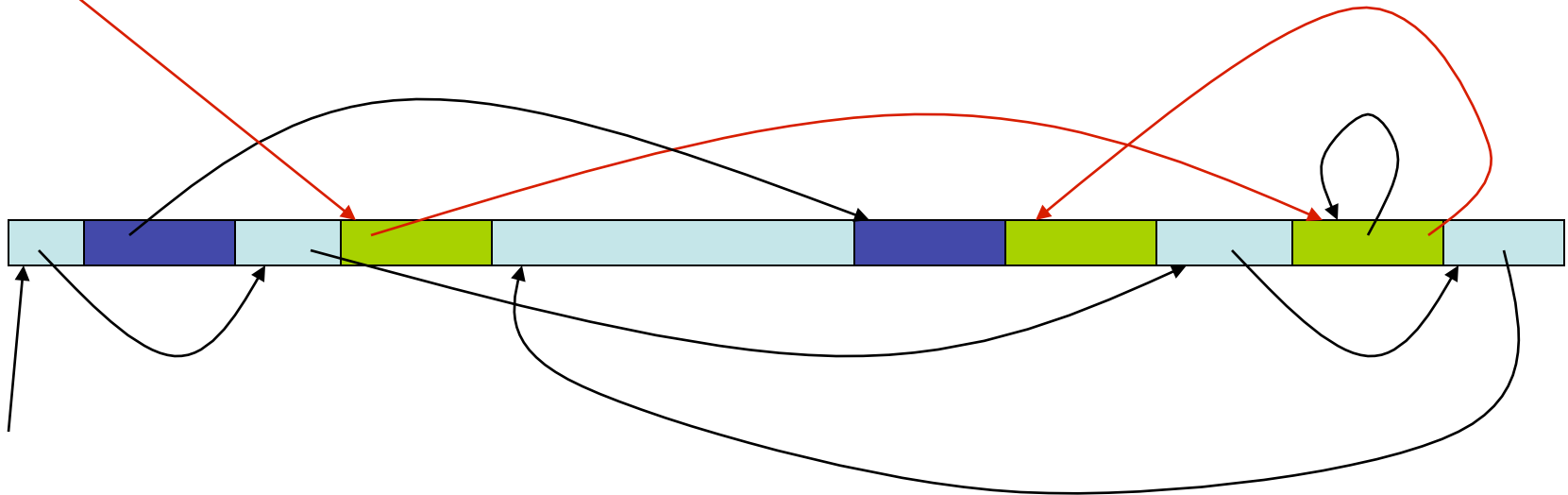
On free list

Marked

Example

Sweep Phase: set up sweep pointer; begin sweep

p

Free list

r1

In use

On free list

Marked

Slides of the CS 320
course by David Walker
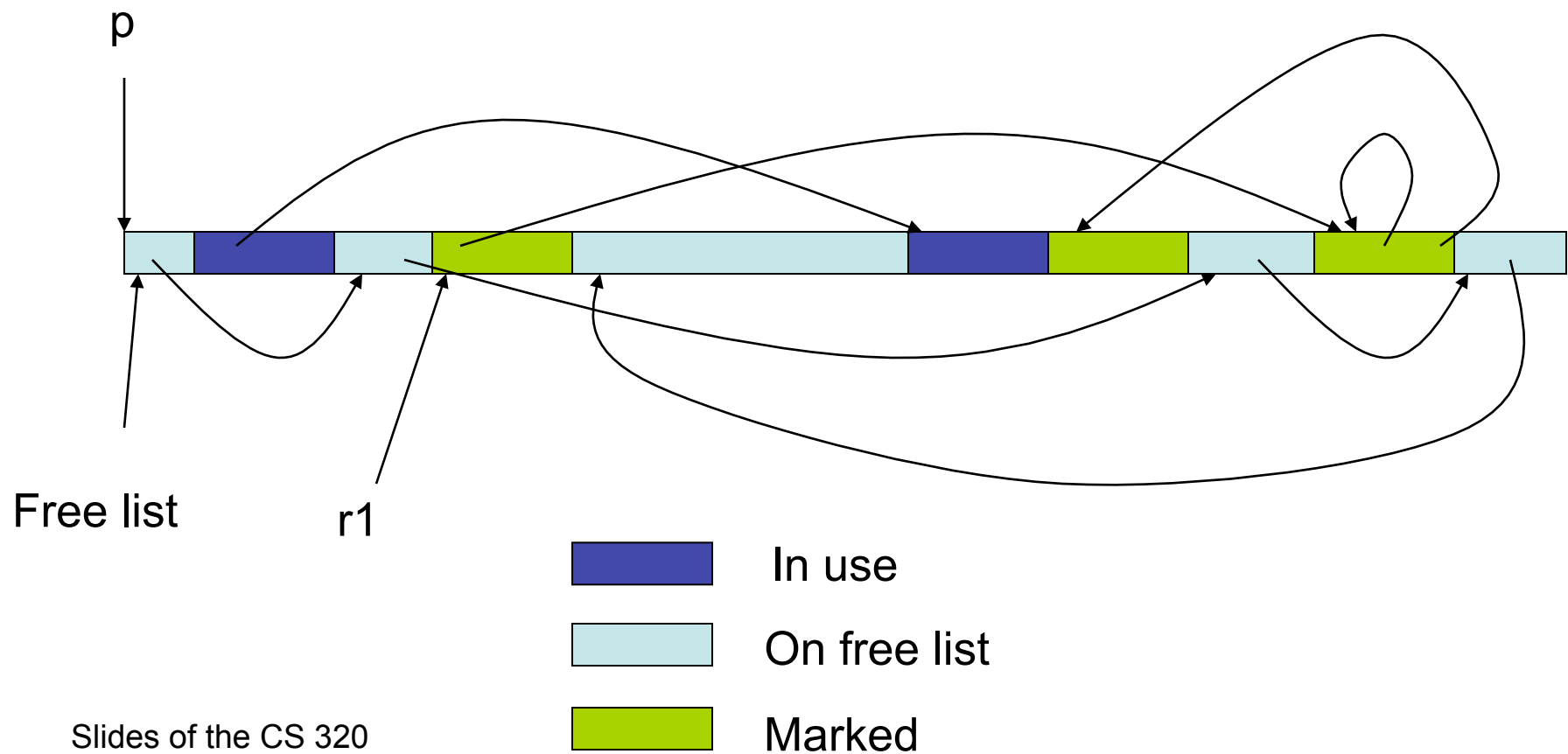
Example

Sweep Phase: add unmarked blocks to free list

p

Free list

r1

In use

On free list

Marked

Slides of the CS 320
course by David Walker

Example

Sweep Phase

p

Free list

r1

In use

On free list

Marked

Slides of the CS 320
course by David Walker
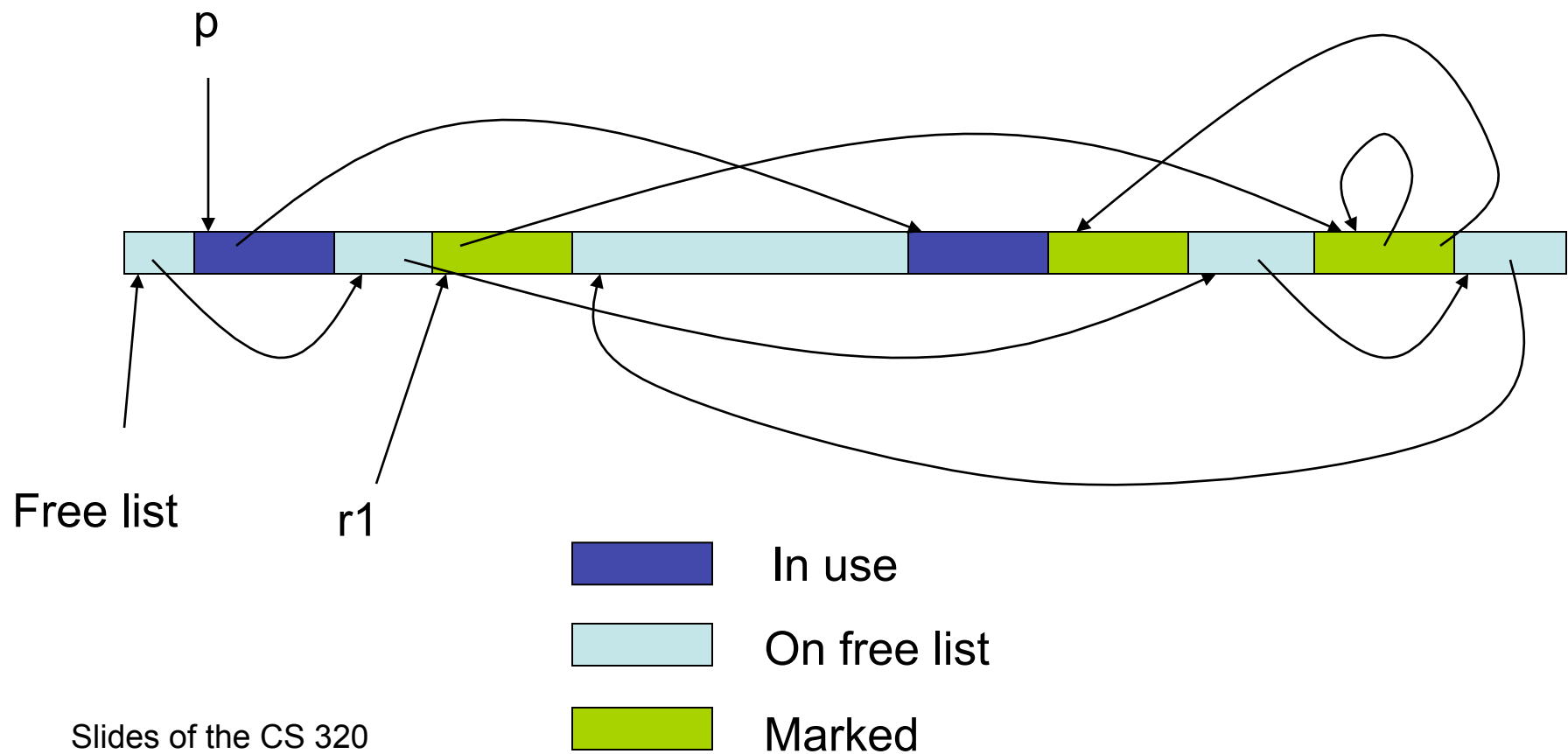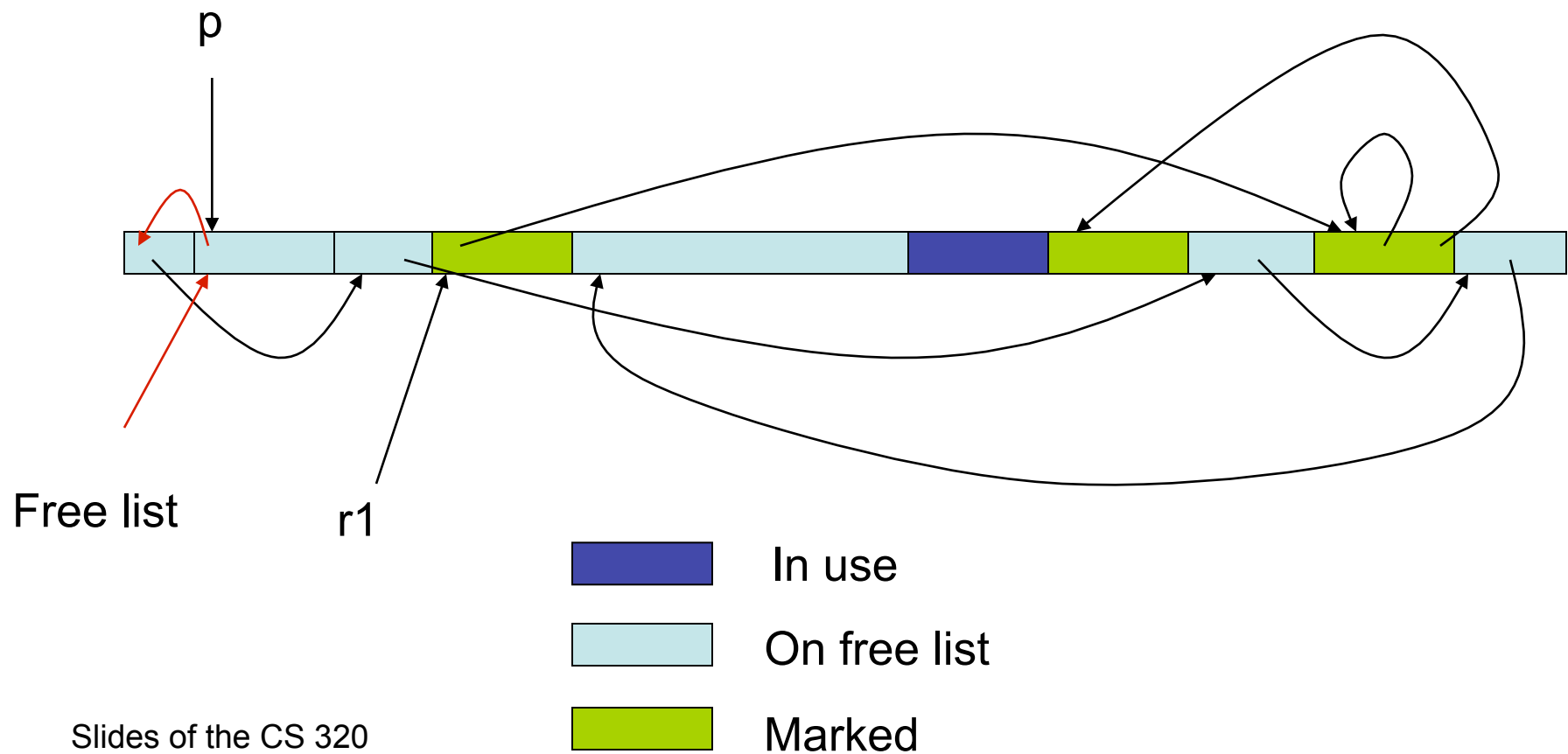
Example

Sweep Phase: retain & unmark marked blocks
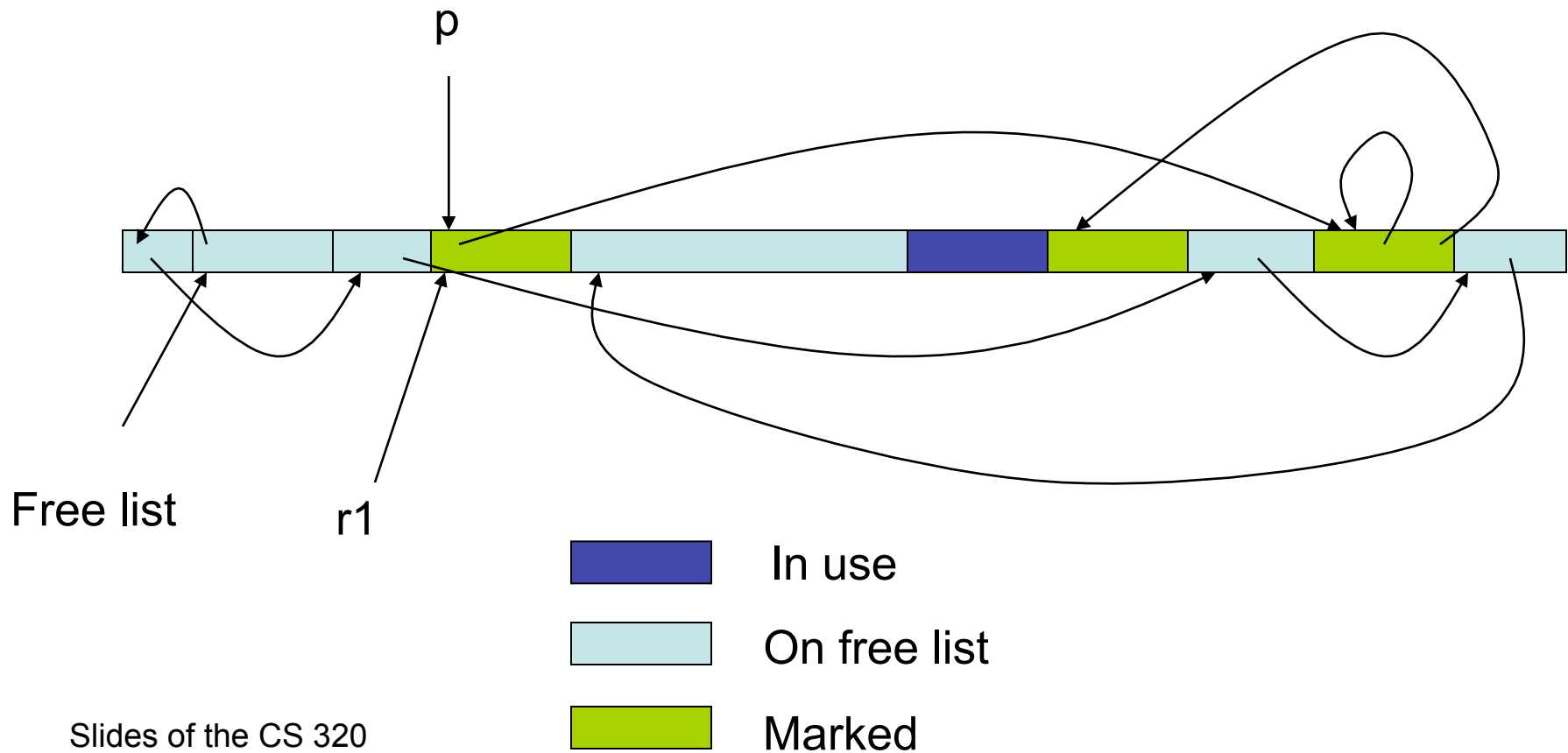
p

Free list

r1

In use

On free list

Marked

Example

Sweep Phase

p

Free list

r1

In use

On free list

Marked

Slides of the CS 320
course by David Walker

Example

Sweep Phase

p

Free list

r1

	In use
	On free list
	Marked

Slides of the CS 320
course by David Walker

Example

Sweep Phase

Free list

r1

- In use
- On free list
- Marked

Slides of the CS 320
course by David Walker

Example

Sweep Phase

p

Free list

r1

In use

On free list

Marked

Slides of the CS 320
course by David Walker
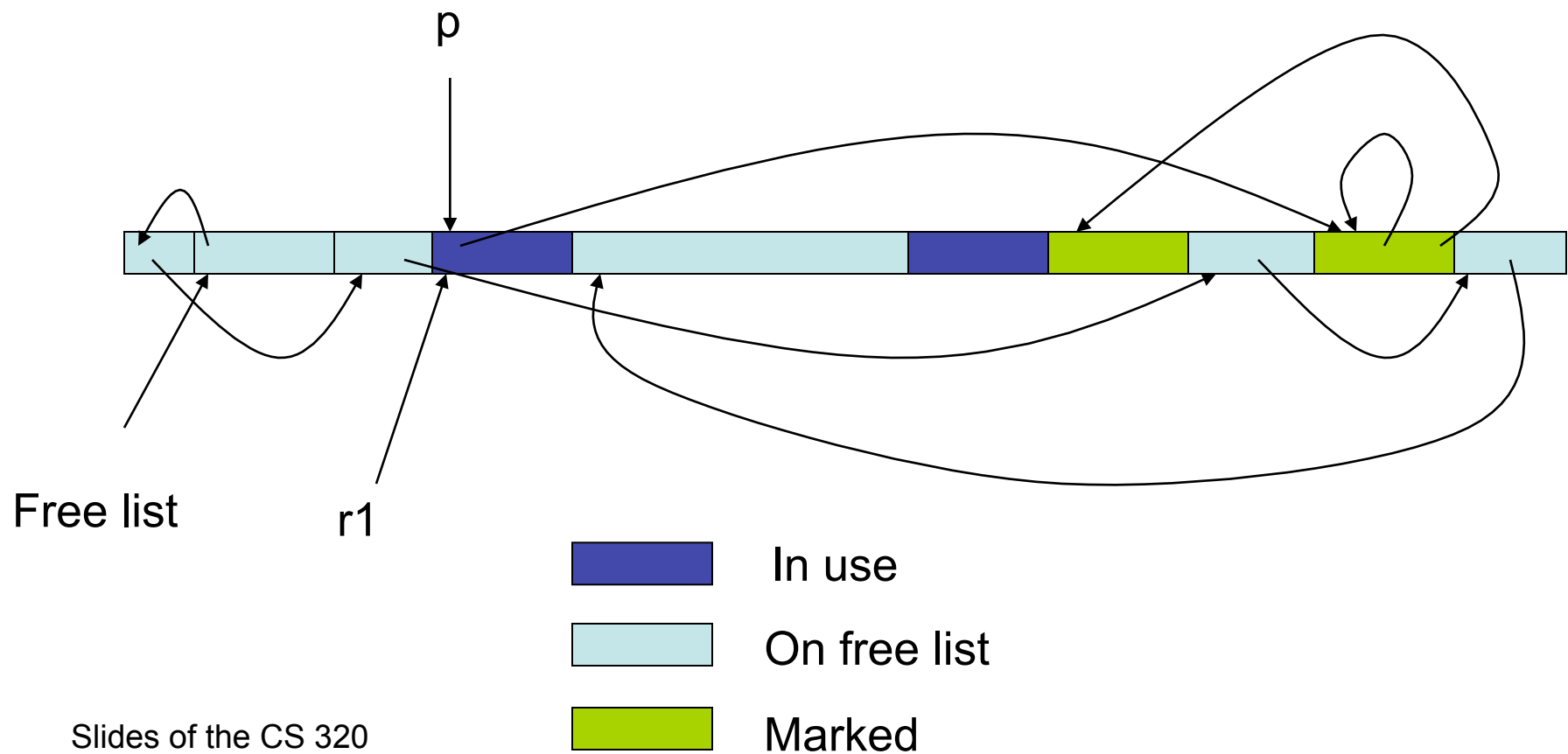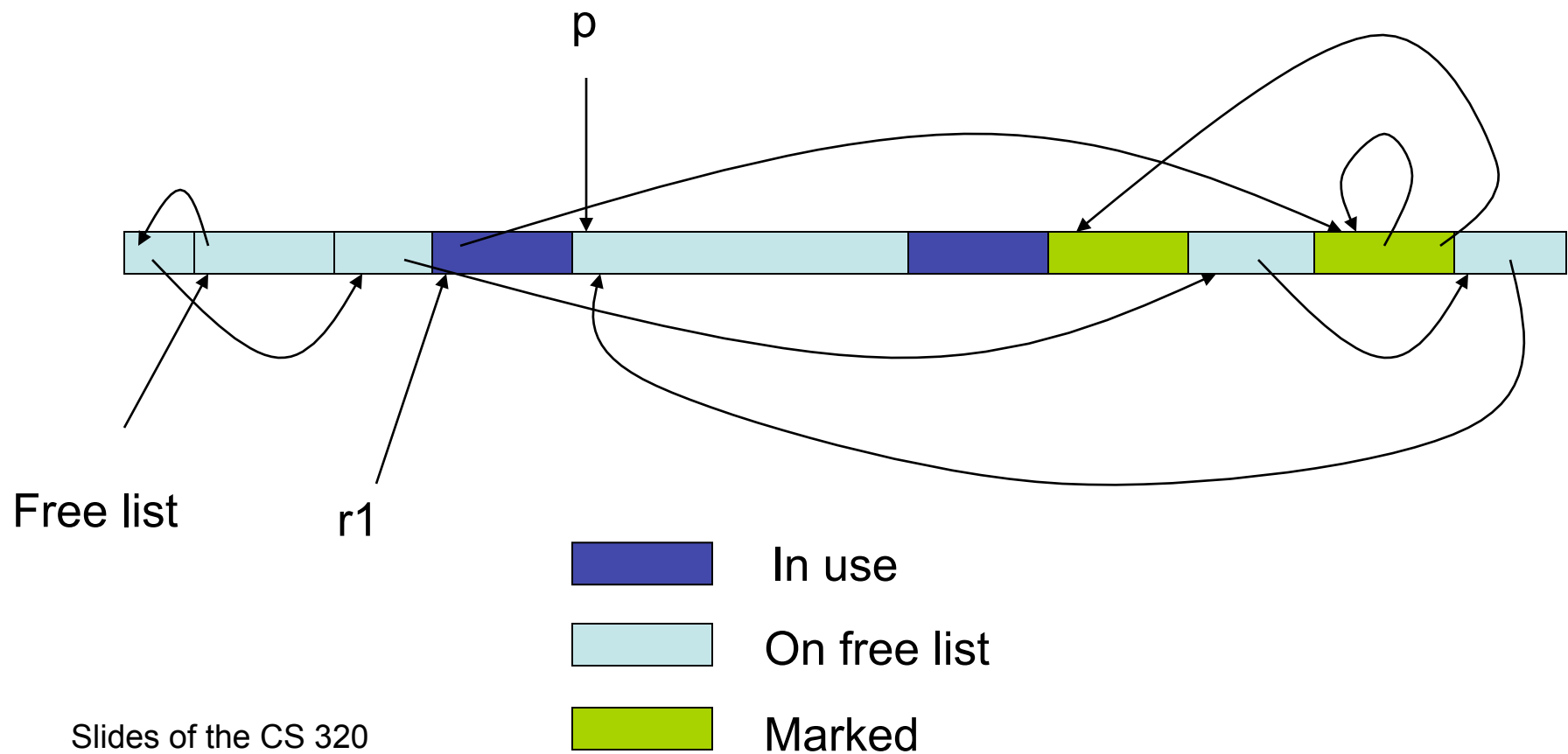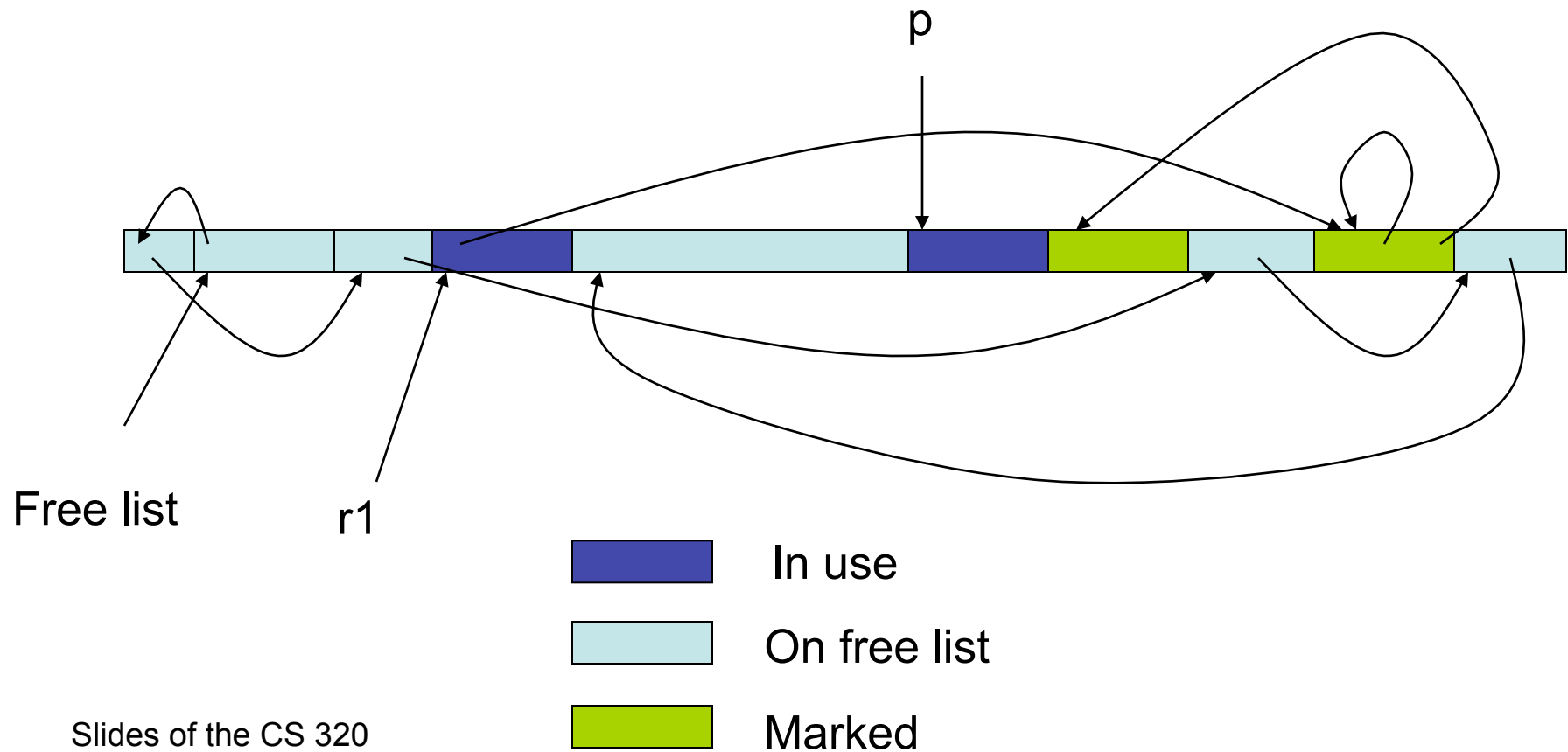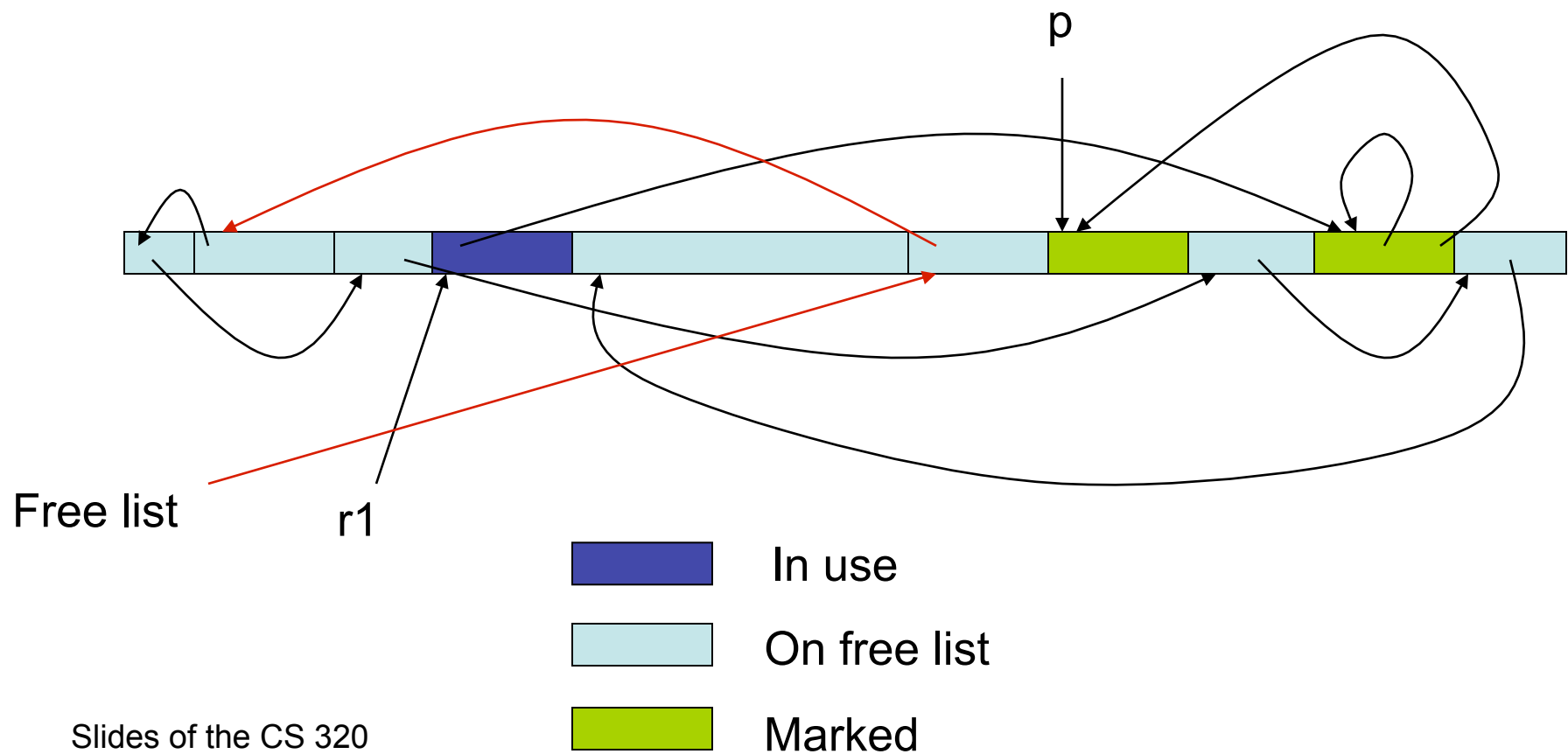
Example

Sweep Phase: GC complete when heap boundary encountered; resume program

p

Free list

r1

In use

On free list

Marked