

Third-chance algorithm

- Second chance algorithm does not distinguish between read and write access
- Write access more expensive
- Give modified pages a third chance:
 - *u*-bit set at every reference (read and write)
 - *w*-bit set at write reference
 - to select a page, cycle through frames, resetting bits, until ***uw*==00**:

<u>uw</u>	→	<u>uw</u>	
11		01	
10		00	
01		00*	(remember modification)
00		select	

Third-chance algorithm

- Read→10→00→Select
- Write→11→01→00*→Select

...	0	1	2	3	4	5	6	7	8	9	10	.
...	c		a*	d	b*	e	b	a*	b	c	d	.
>a/10	>a/10	>a/11	>a/11	>a/11	a/00*	a/00*	a/11	a/11	>a/11	a/00*		
... b/10	b/10	b/10	b/10	b/11	b/00*	b/10*	b/10*	b/10*	b/10*	b/10*	d/10	
... c/10	c/10	c/10	c/10	c/10	e/10	e/10	e/10	e/10	e/10	>e/00		
... d/10	>d/10	d/10	d/10	d/10	>d/00	>d/00	>d/00	>d/00	>d/00	c/10	c/00	.
... IN					e					c	d	
... OUT					c					d	b	