

- a) **layer partition**
- after the first $k=3$
pairwise distinct
requested pages

layers	L0	L1	L2	L3
pages	1,3,6	\emptyset	\emptyset	4,2,5

1,3,6 are for sure
not in OPT's cache.

revealed pages
4,2,5 are for sure
in OPT's cache.

- b) **layer partition**

after request
to page 6

layers	L0	L1	L2	L3
pages	1,3	\emptyset	4,2,5	6

1,3 are for sure
not in OPT's cache.

unrevealed pages revealed pages

6 is for sure in OPT's cache,
while 4,2,5 only might be in cache.