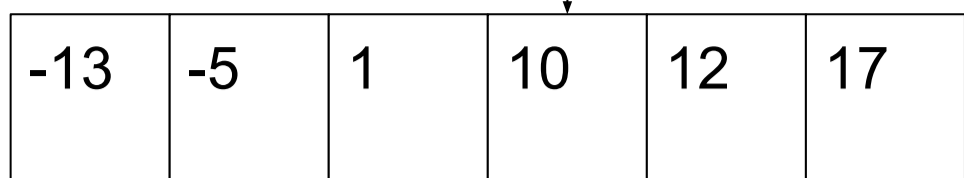


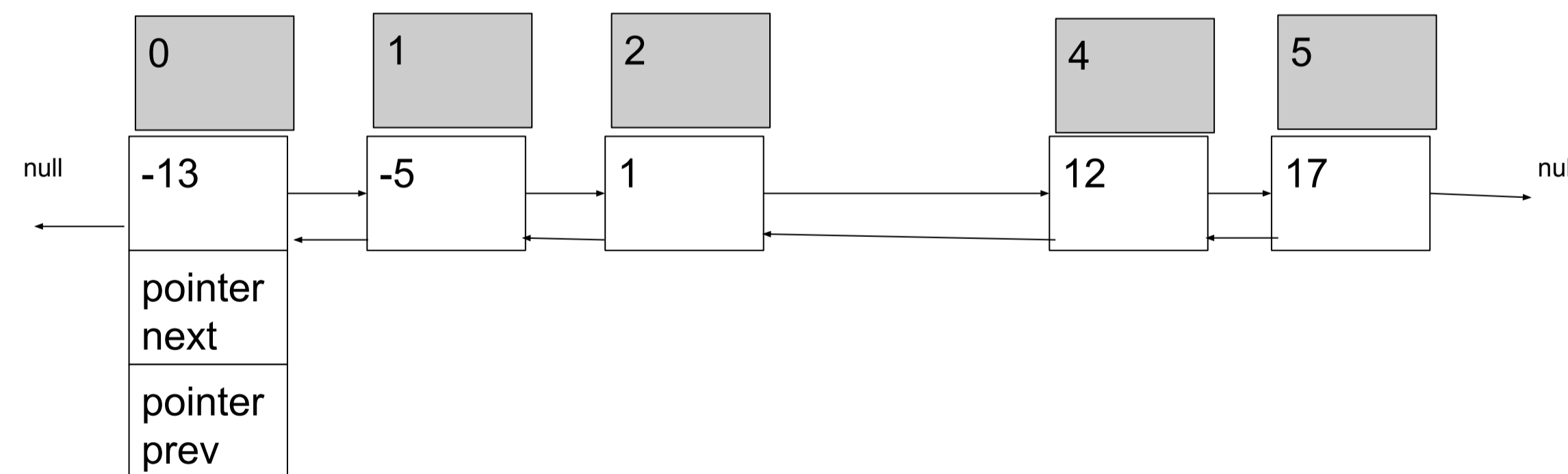
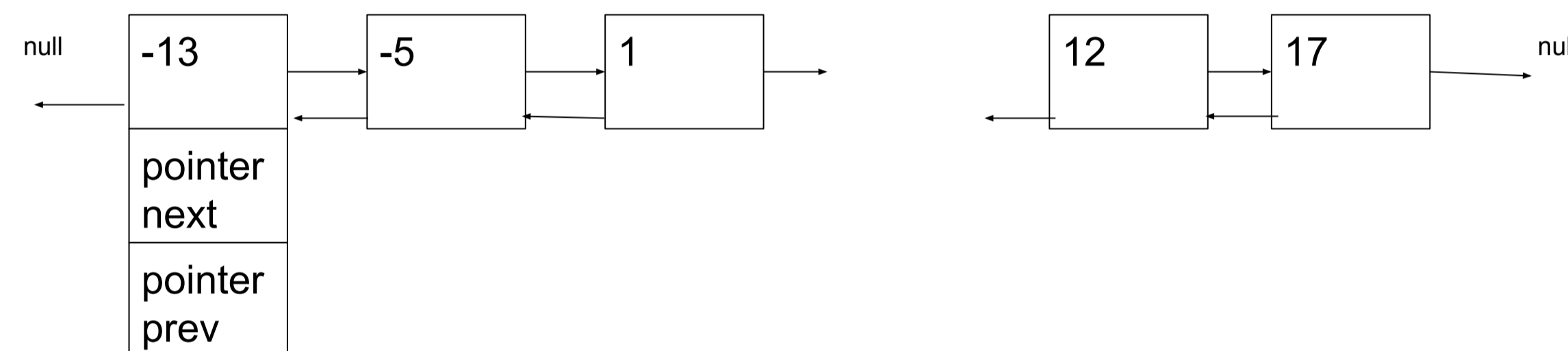
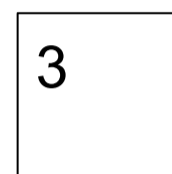
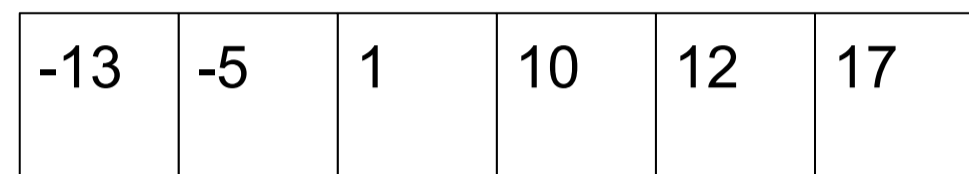
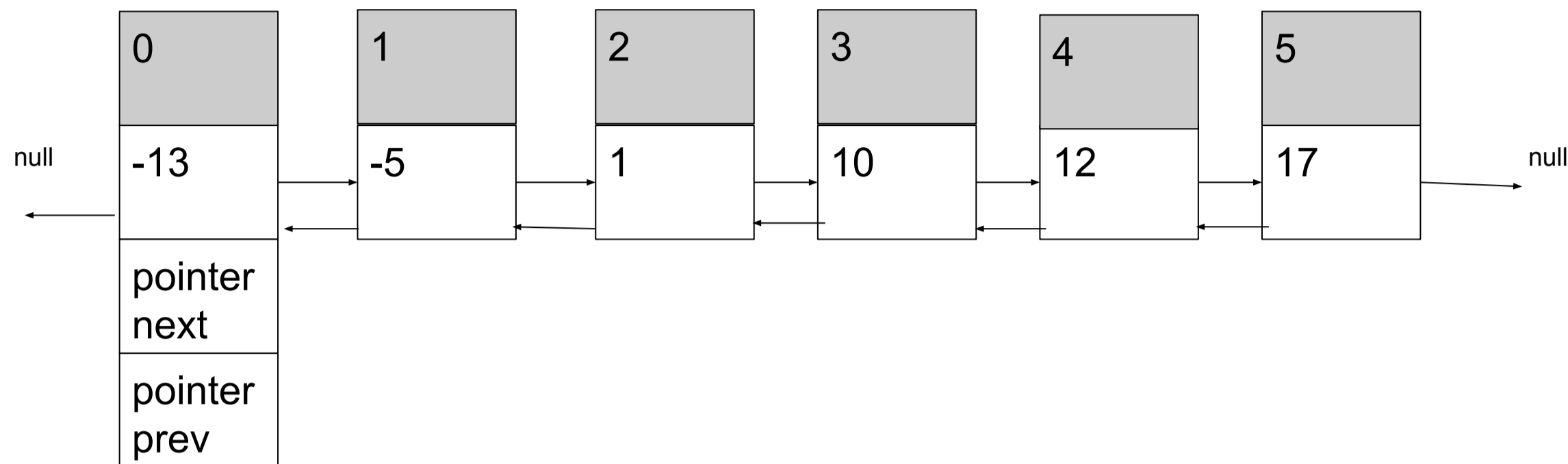
delete\_by\_value  
delete\_by\_index

долгий select  
быстрый delete/insert

(a,b) (c,d)  
(a,b)>(c,d)  
лексикографический порядок



быстрый select  
медленный delete/insert



a[12314]

a[92341]

0 1 2 3 4 5

a['abba']=14

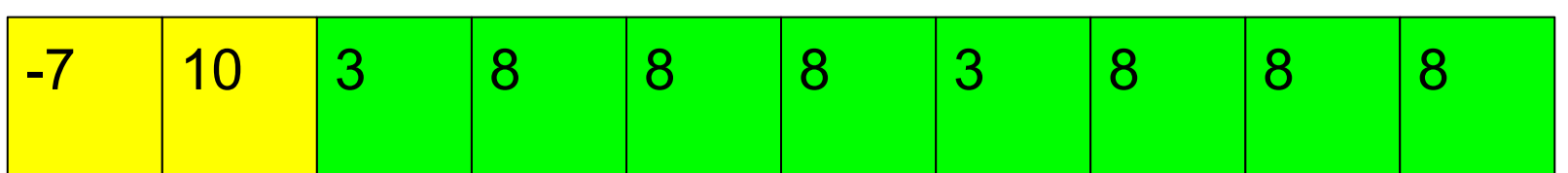
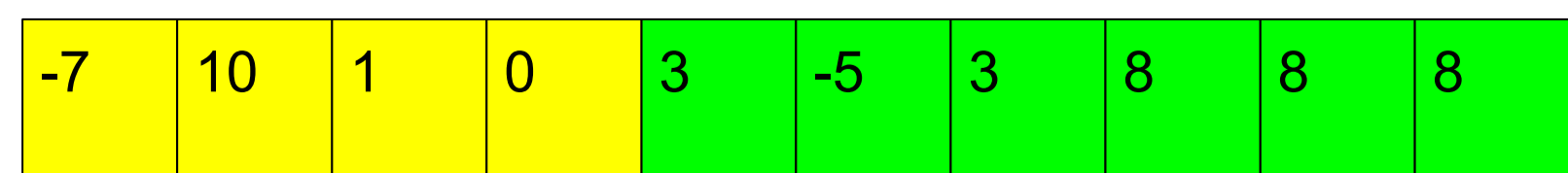
a['beatles']=157

md5('abba')=hash1

md5('beatles')=hash2

md5('queen')=hash2

hash1 hash2 hash2 hash3



$$[(2+8)-((2+8)/2)\%2]/2=4$$

$$[(2+6)-((2+6)/2)\%2]/2=4$$

$$[(2+10)-((2+10)/2)\%2]/2=6$$

$$[(2+4)-((2+4)/2)\%2]/2=2$$

finish-start>2

