* Q 很重要,但也很困難,所以好的结果不多

n integers, k = nd

d lg n bits

Integer sort: $k = n^d$ $O(n + k) = O(n + n^d)$ $\frac{\text{lg n bits}}{k = 2^{\lg n} = n}$

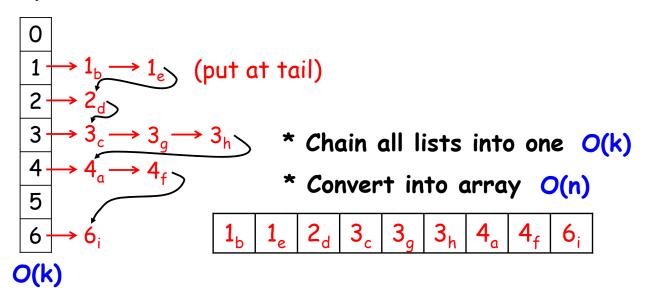
Radix sort: d, k = nO(d(n + k)) = O(dn)

If d is a constant, it needs linear time!

$$[4_a]$$
 1_b 3_c 2_d 1_e 4_f 3_g 3_h 6_i

8-5b

* put all items into buckets O(n)



Time: O(n + k)