

[5, 8, 6]

 $K = 3$
 3 sample no.

binary search on answer

- 6

~~(6), 2~~ (6) only (2)

 candidate
 $8 / 4 = 2$

- 4

(4), 1 (4), (2) (4), 2 (4) ✓

- 5

(5) (5), 3 (5), 1 (3) ✓

[4, 7, 5]

 $K = 4$

expected output: 3

- 3

(3), 1 (3)(3), 1 (3), 2