KOKO Eating Bananas → Return the min integer k
                                               such that koko can

piles[] = [3 6 7 11] h=8    eat all bananas with
                                             h hours.

     if $k = 2$ → no. of bananas eat in 1 hr

       3        6        7        11
       ↑        ↑    ↑      ↑
   2 hours    3 hrs   4 hrs     6 hrs
   to eat

                             $2 + 3 + 4 + 6 > 8$

       3        6        7        11
                           $k = 3$
       ↑        ↑    ↑      ↑
   1 hr    2 hr    3 hr   4 hrs          $1 + 2 + 3 + 4 > 8$

                             $k = 4$

       3        6        7        11
       ↑        ↑    ↑      ↑
   1 hr    2 hr    2hr   3hr      ⇒ 8 hr

                       so $k = 4$ is the min integer

                       if $k = 5$ also possible but 4 is

                                    min

   k values ranges from    $0 →$ max(arr)
                       $0 → 4$

   $\dfrac{0 + 11}{2}$ → mid = 5 , calculate time by

  for(i = 0; i < n; i++)
  sum of = $\lceil arr[i] / mid; \rceil$ → ceil value

      ↗           ⟶ this is possible so try for
                       min value

high = mid-1

low→0          high = 4

$\frac{0+4}{2}$ ⇒ mid = 2

3 4    7 11 → not possible

⇒ low = mid+1

low = 3      high = 4      mid = $\frac{3+4}{2} = \frac{7}{2}$ = 3

3 6    4 11

mid = 3 also not possible

low = mid+1, = 4

low = 4,    high = 4    mid = 4

3 6    7 11

→ possible for 4

so ans = 4;

high = mid-1 ⇒ 3

low = 4

exit

┌─────────┐
│ ans = 4 │
└─────────┘