Q. Minimum cost to hire k workers

n workers.

quality = [10, 20, 5]

wage = [70, 50, 30]

k = 2

ans → 105

70/10 = 7

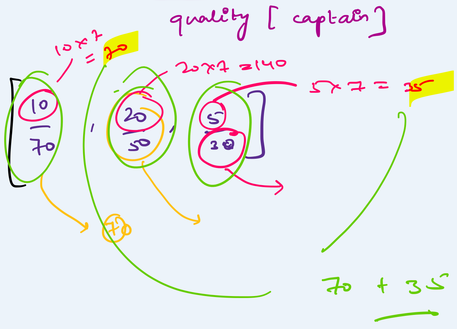
70 + 35 = 105 ✓

At least one worker will be paid their minimum wage expectations.

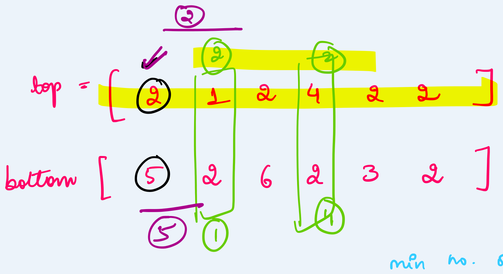
Appoint each worker as captain once.

For each captain, that will be paid their min wage expectation, we need to calculate the cost of hiring k workers with

wage [captain] / quality [captain]



Q. Minimum domino rotations for equal row



min no. of rotations

ans → 2 ✓

Three possible cases:-

1. All elements of A|B to be same as equal to A[i].
2. All elements of A|B to be same or equal to B[i].
3. It's impossible to do so.

Q. Split array largest sum

[7, 2, 5 | 10, 8] m = 2

minimise the longest sum.

Binary Search

f(x) → ensures that the max largest subarray sum will not exceed (x).

mid = (l + r) / 2

f(mid) → false. ✓

true → [left, mid-1]

false → [mid+1, right]