**The Doomed Dice Challenge Part-B**

* Given:

Number of dice: 2 (6-sided)

Dice values: 1 to 6

Original Dice A and Dice B: [1, 2, 3, 4, 5, 6]

* Constraints for Un-Dooming:

Die A cannot have a face value exceeding 4.

Multiple faces can have the same number of spots.

Die B may have as many spots, even exceeding 6.

* Original Sums and Occurrences:

Sum = 2 ( Occurrences = 1 ) , Sum = 3 ( Occurrences = 2 ) , … , Sum = 12 ( Occurrences = 1 ) Sum=2 (Occurrences=1), Sum=3 (Occurrences=2), …, Sum=12 (Occurrences=1)

* Un-Dooming Process:

The minimum combined sum = 1 + 1 = 2, and the maximum combined sum = 6 + 6 = 12. Initially, both Dice A and B are doomed, with face values becoming 0: Dice\_A = Dice\_B = [ 0 , 0 , 0 , 0 , 0 , 0 ] Dice\_A=Dice\_B=[0,0,0,0,0,0]

Compare each combination, checking whether the sum occurrences match the original sums. If the condition is satisfied, return the un-doomed combination along with sum occurrences. If not, continue the search until the conditions are exhausted.

* Result:

The possible combination satisfying the given constraints is:

New\_Dice\_A = [ 1 , 2 , 2 , 3 , 3 , 4 ]

New\_Dice\_B = [ 1 , 3 , 4 , 5 , 6 , 8 ]

