

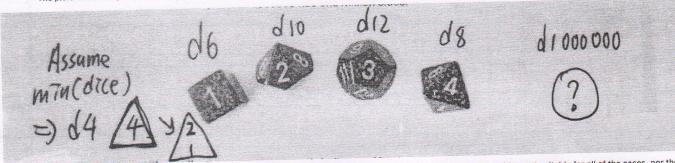
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Code Jam Qualification Round Question C

This is an intermediary difficulty problem to progress further away from the basic knowledge in programming, but it remains a window, a gap to take down the

In this question, the participants should form a straight of dice from small to large numbers, which needs to pick up the number from a certain amount of dice in question in a slice of bread. different specific faces.

The picture shows up a solution of test case 1 in the sample input.



D6, D10, D12, and D8, and they formed d6 as 1, d10 as 2, d12 as 3, and d8 as 4; with straight lengths by 4. But it is neither not suitable for all of the cases, nor they are not perfectly optimized.

The solution is interesting, but you need to think outside of boxes. Rather than rolling the dice to get a specific number from each dice, or doing your flipping in orderly in your inputting arrays.

You just need to flip it to the largest number per each dice at first. For example, the largest face in each test case is d1000000, which meant the largest number is 1000000. D4 is 4 and so on......

Secondly, then sort the input array reversely if acceptable, directions are never minded.

Thirdly, in each iteration, two numbers will be checked between the current straight and the faces array element which pointed index.

When the element is larger than or equal to straight, the pointed indices (different face dice) will flip the face number up to the current straight number. Then, the When the element is smaller than straight, it meant this dice shall be discarded, it will end the current iteration of the loop. But the element is still on the list.

Finally, bypassing the array into the python set() function to eliminate the redundant elements. Then pass back to the list as final counting with a straightforward lens() function.

Each test case will return an integer number, which is the length of the final list. That it.