



30 DAYS OF CODE (PYTHON TRACK)

Day 7 -The captain's room

Mr. Anant Asankhya is the manager at the *INFINITE* hotel. The hotel has an infinite amount of rooms. One fine day, a *finite* number of tourists come to stay at the hotel.

The tourists consist of:

→ A Captain.

→ An unknown group of families consisting of N members per group where $N > 1$.

The Captain was given a separate room, and the rest were given one room per group. Mr. Anant has an unordered list of randomly arranged room entries. The list consists of the room numbers for all of the tourists. Mr. Anant needs you to help him find the Captain's room number.

The total number of tourists or the total number of groups of families is not known to you.

You only have the room number list

e.g. [1,2,3,6,5,4,4,2,5,3,6,1,6,5,3,2,4,1,2,5,1,4,3,6,8,4,3,1,5,6,2]

Help Mr. Anant by creating a function named **captains_room** that takes in the **room number list as parameter** and **without the use of any inbuilt function for manipulating lists**, return the room number of the captain.

N.B: No in-built module should be used.