

Royal Bihar Coders

Free Bootcamp | Basics of Programming

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Hackathon Question

The Chhath Puja happens every year in the month of November. Crore of people goes to chhath ghat to pray Sun God "Surya". You are interested in designing an efficient mechanism of distributing crowd equally over different "ghats" so that "ghats" can be utilised most efficiently with most optimum crowd distribution.

Below are few data to analyse:

Number of ghats: 4 (represented with G1, G2, G3, G4)

Capacity of ghats: [G1:10, G2:40, G3: 20, G4:30]

You have to design a "Ghat Allocation System" where user will ask you for a particular "ghat" along with number of family members they will be going with. For example, below is an input from user in two separate lines:

G2

7

In this case, Your "Ghat Allocation System" will inform "Allocated" if capacity of 7 is available and update the remaining capacity of that ghat with (40-7) i.e. 33. So,

Output:

Allocated

In case number of member is more than the capacity of the ghat he/she has requested with, then system will search for other available ghats and inform the user about it. If user selects a particular ghat from the available options, system will inform "Allocated" and update the remaining capacity accordingly. For example:

Input:

G3

20

Output:

This ghat is full. Select from available options below-

G2, G4

Input:

G2

Output:

Allocated





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 Code online & share the link over mail
or,

 Mail your code