![Graphical user interface, application, Teams

Description automatically generated]()

Question:

![A picture containing text, gauge, device, meter

Description automatically generated]()

Total number of permutations by this formulae.

A picture containing text, watch, gauge, clipart

Description automatically generated

Here for 1st number we can take 3 different number as taken above. Also the map here will tell us which index has been taken.

![Diagram

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Here also permutation start with 1 so sorted.

![Diagram

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Here same way 3 will be done.

![A picture containing text, blackboard

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Here the base case is ds.size()==n print ds.

Code:

![Graphical user interface, text, application, email

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