

How to list all permutations of S_n for any given value of n .

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2



In writing out a symmetric subgroup S_n with some given n -value, how would I go about doing this? For example, allow me to attempt with $n = 3$:

$$S_3 = \{(13), (23), (12), (123), (132), (213)\}$$

Am I doing this correctly or incorrectly? All I know is that S_n has an order of $n!$. In this case, S_3 has an order of 6, so there are six permutations I must list as above.

What about S_5 ? How can I list its permutations generally? I know it has 120 elements, so obviously I just want to list only some just to exemplify. Do I write (I know, it's an incomplete list)...

$$S_5 = \{(15), (25), (35), (45), (125), (235), (345), \dots\}$$

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edited Feb 15, 2014 at 7:14

asked Feb 15, 2014 at 7:07



Cookie

13.9k

20

73

157

Just so you know, in your S_3 , (132) and (213) are the same element. Read the first as "1 goes to 3, 3 goes to 2, 2 goes to 1." The second would be read "2 goes to 1, 1 goes to 3, 3 goes to 2." The element you are missing is the identity element which sends 1 to 1, 2 to 2, and 3 to 3. – TheMobiusLoops Mar 23, 2014 at 17:16

You're forgetting the identity in S_3 , also (213) is the same as (123). – Pedro ♦ Mar 23, 2014 at 17:16

That work above was written over a month ago when I did not understand permutations and cycles. See my own answer below instead. – Cookie Mar 24, 2014 at 2:07 ✓

2 Answers

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Group Theory Block Unit 1 Permutations

Daniela Niemeyer



Group Theory Block Unit 1 Permutations:

Unveiling the Magic of Words: A Review of "**Group Theory Block Unit 1 Permutations**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Group Theory Block Unit 1 Permutations**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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