

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

Asked 11 years, 3 months ago Modified 11 years, 2 months ago Viewed 349 times



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

**R Pring**



## **Group Theory Block Unit 1 Permutations:**

Group Theory Block Unit 1 Permutations: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. Group Theory Block Unit 1 Permutations :

Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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