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#Om Sree Sree Ganeshay Namoh
##Om Sree Sree Radhamadhabay Saranam
##Om Sree Sree Hanumate Namoh
# DeepMythomatics
#### Combinatotrics – Combination of all possible values for a given n
#### Example For n = 3 output = {123, 231,321}
Approach-5
Using Torch, GAN
Similarly For n=5
Epoch [0/10000] D Loss: 7.6452 G Loss: -0.1480
Epoch [1000/10000] D Loss: -0.2219 G Loss: -0.3355
Epoch [2000/10000] D Loss: -0.1949 G Loss: -0.6507
Epoch [3000/10000] D Loss: -0.2056 G Loss: -0.6980
Epoch [4000/10000] D Loss: -0.1857 G Loss: -0.6847
Epoch [5000/10000] D Loss: -0.2725 G Loss: -0.6719
Epoch [6000/10000] D Loss: -0.2635 G Loss: -0.5228
Epoch [7000/10000] D Loss: -0.2752 G Loss: -0.3164
Epoch [8000/10000] D Loss: -0.2121 G Loss: -0.3110
Epoch [9000/10000] D Loss: -0.3050 G Loss: -0.0474
Generated 113 Unique Permutations (n! = 120):
Permutation 1: [5, 4, 1, 3, 2]
Permutation 2: [3, 1, 4, 5, 2]
Permutation 3: [1, 4, 3, 5, 2]
Permutation 4: [2, 5, 4, 3, 1]
Permutation 5: [5, 3, 2, 4, 1]
Permutation 6: [5, 4, 1, 2, 3]
Permutation 7: [2, 4, 5, 1, 3]
Permutation 8: [2, 5, 1, 3, 4]
Permutation 9: [2, 5, 1, 4, 3]
Permutation 10: [1, 2, 3, 5, 4]
Permutation 11: [4, 1, 3, 5, 2]
Permutation 12: [5, 2, 3, 4, 1]
Permutation 13: [1, 3, 4, 5, 2]
Permutation 14: [4, 1, 5, 3, 2]
Permutation 15: [2, 3, 5, 1, 4]
Permutation 16: [2, 5, 4, 1, 3]
Permutation 17: [1, 3, 5, 4, 2]
Permutation 18: [4, 3, 1, 2, 5]
Permutation 19: [5, 1, 4, 2, 3]
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Permutation 20: [2, 1, 3, 4, 5] Permutation 21: [1, 3, 5, 2, 4] Permutation 22: [1, 2, 4, 5, 3]

- Permutation 23: [4, 2, 1, 5, 3]
- Permutation 24: [4, 1, 3, 2, 5]
- Permutation 25: [5, 2, 3, 1, 4]
- Permutation 26: [1, 2, 4, 3, 5]
- Permutation 27: [3, 1, 2, 4, 5]
- Permutation 28: [1, 4, 2, 3, 5]
- Permutation 29: [1, 5, 2, 4, 3]
- Permutation 30: [1, 4, 5, 2, 3]
- Permutation 31: [4, 2, 1, 3, 5]
- Permutation 32: [5, 4, 3, 1, 2]
- Permutation 33: [5, 4, 3, 2, 1]
- Permutation 34: [2, 4, 3, 5, 1]
- Permutation 35: [2, 1, 4, 5, 3]
- Permutation 36: [4, 2, 5, 3, 1]
- Permutation 37: [5, 1, 2, 4, 3]
- Permutation 38: [1, 5, 2, 3, 4]
- Permutation 39: [2, 3, 1, 4, 5]
- Permutation 40: [2, 3, 4, 5, 1]
- 1 crimutation 40. [2, 5, 4, 5, 1]
- Permutation 41: [2, 5, 3, 4, 1]
- Permutation 42: [5, 3, 1, 2, 4]
- Permutation 43: [3, 4, 1, 2, 5]
- Permutation 44: [2, 1, 4, 3, 5]
- Permutation 45: [1, 5, 3, 2, 4]
- Permutation 46: [2, 3, 5, 4, 1]
- Permutation 47: [3, 5, 1, 4, 2]
- Permutation 48: [5, 1, 4, 3, 2]
- Permutation 49: [3, 1, 4, 2, 5]
- Permutation 50: [4, 2, 3, 5, 1]
- Permutation 51: [1, 4, 3, 2, 5]
- Permutation 52: [2, 4, 1, 5, 3]
- Permutation 53: [3, 4, 2, 5, 1]
- Permutation 54: [3, 2, 4, 1, 5]
- Permutation 55: [4, 5, 3, 2, 1]
- Permutation 56: [3, 2, 5, 4, 1]
- Permutation 57: [3, 1, 2, 5, 4]
- Permutation 58: [2, 4, 1, 3, 5]
- Permutation 59: [3, 4, 5, 1, 2]
- Permutation 60: [3, 4, 5, 2, 1]
- Permutation 61: [4, 5, 3, 1, 2]
- Permutation 62: [2, 4, 5, 3, 1] Permutation 63: [5, 4, 2, 3, 1]
- 1 cilitatation 03. [3, 4, 2, 3, 1]
- Permutation 64: [1, 5, 4, 2, 3]
- Permutation 65: [5, 1, 2, 3, 4]
- Permutation 66: [4, 3, 5, 2, 1]
- Permutation 67: [4, 2, 5, 1, 3] Permutation 68: [4, 5, 1, 3, 2]
- Permutation 69: [2, 4, 3, 1, 5]
- Permutation 70: [3, 5, 4, 2, 1]
- Permutation 71: [4, 1, 2, 5, 3]

Permutation 72: [4, 5, 1, 2, 3] Permutation 73: [5, 2, 1, 4, 3] Permutation 74: [2, 5, 3, 1, 4] Permutation 75: [3, 5, 4, 1, 2] Permutation 76: [4, 1, 2, 3, 5] Permutation 77: [5, 2, 4, 3, 1] Permutation 78: [4, 1, 5, 2, 3] Permutation 79: [5, 1, 3, 2, 4] Permutation 80: [4, 5, 2, 3, 1] Permutation 81: [4, 3, 2, 1, 5] Permutation 82: [1, 3, 4, 2, 5] Permutation 83: [5, 3, 1, 4, 2] Permutation 84: [5, 2, 4, 1, 3] Permutation 85: [1, 5, 3, 4, 2] Permutation 86: [3, 2, 1, 4, 5] Permutation 87: [1, 5, 4, 3, 2] Permutation 88: [3, 2, 1, 5, 4] Permutation 89: [2, 1, 5, 4, 3] Permutation 90: [2, 3, 1, 5, 4] Permutation 91: [3, 4, 2, 1, 5] Permutation 92: [2, 1, 5, 3, 4] Permutation 93: [4, 3, 1, 5, 2] Permutation 94: [4, 2, 3, 1, 5] Permutation 95: [3, 2, 5, 1, 4] Permutation 96: [4, 3, 2, 5, 1] Permutation 97: [5, 4, 2, 1, 3] Permutation 98: [3, 1, 5, 4, 2] Permutation 99: [1, 2, 3, 4, 5] Permutation 100: [4, 3, 5, 1, 2] Permutation 101: [2, 1, 3, 5, 4] Permutation 102: [1, 4, 5, 3, 2] Permutation 103: [2, 3, 4, 1, 5] Permutation 104: [1, 3, 2, 4, 5] Permutation 105: [1, 3, 2, 5, 4] Permutation 106: [3, 4, 1, 5, 2] Permutation 107: [3, 5, 1, 2, 4] Permutation 108: [5, 3, 4, 2, 1] Permutation 109: [5, 2, 1, 3, 4] Permutation 110: [4, 5, 2, 1, 3] Permutation 111: [1, 2, 5, 3, 4] Permutation 112: [1, 2, 5, 4, 3] Permutation 113: [5, 3, 4, 1, 2]

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