

```

1  class StringSet:
2      def __init__(self, strings):
3          self.set = set(strings)
4
5      # Create 8 sets for each ODI
6      Against_SouthAfrica = StringSet(["Rohit Sharma", "Shubman Gill", "Virat Kohli",
"Shreyas Iyer", "KL Rahul", "Suryakumar Yadav", "Ravindra Jadeja", "Mohammed Shami",
"Jasprit Bumrah", "Kuldeep Yadav", "Mohammed Siraj"])
7      Against_SriLanka = StringSet(["Shikhar Dhawan", "Prithvi Shaw", "Ishan Kishan",
"Manish Pandey", "Suryakumar Yadav", "Hardik Pandya", "Krunal Pandya", "Bhuvneshwar
Kumar", "Deepak Chahar", "Yuzvendra Chahal", "Kuldeep Yadav"])
8      Against_Australia = StringSet(["Shikhar Dhawan", "Prithvi Shaw", "Virat Kohli",
"Shreyas Iyer", "KL Rahul", "Hardik Pandya", "Ravindra Jadeja", "Bhuvneshwar Kumar",
"Deepak Chahar", "T Natarajan", "Yuzvendra Chahal"])
9      Against_England = StringSet(["Rohit Sharma", "Shikhar Dhawan", "Virat Kohli",
"KL Rahul", "Rishabh Pant", "Hardik Pandya", "Krunal Pandya", "Bhuvneshwar Kumar",
"Prasidh Krishna", "Shardul Thakur", "Yuzvendra Chahal"])
10     Against_Pakistan = StringSet(["Rohit Sharma", "KL Rahul", "Virat Kohli",
"Suryakumar Yadav", "Rishabh Pant", "Hardik Pandya", "Ravindra Jadeja", "Bhuvneshwar
Kumar", "Mohammed Shami", "Varun Chakravarth", "Jasprit Bumrah"])
11     Against_NewZealand = StringSet(["Rohit Sharma", "Shikhar Dhawan", "Virat Kohli",
"Shreyas Iyer", "KL Rahul", "Rishabh Pant", "Hardik Pandya", "Ravindra Jadeja",
"Bhuvneshwar Kumar", "Mohammed Shami", "Jasprit Bumrah"])
12     Against_SriLanka_2nd = StringSet(["Shikhar Dhawan", "Prithvi Shaw", "Sanju
Samson", "Manish Pandey", "Suryakumar Yadav", "Hardik Pandya", "Krunal Pandya",
"Bhuvneshwar Kumar", "Deepak Chahar", "Yuzvendra Chahal", "Kuldeep Yadav"])
13     Against_Bangladesh = StringSet(["Shikhar Dhawan", "Prithvi Shaw", "Ishan Kishan",
"Sanju Samson", "Suryakumar Yadav", "Nitish Rana", "Hardik Pandya", "Krunal Pandya",
"Bhuvneshwar Kumar", "Deepak Chahar", "Varun Chakravarth"])
14
15     # Compute the intersection of all 8 sets
16     intersection_set = Against_SouthAfrica.set
17     for s in [Against_SriLanka.set, Against_Australia.set, Against_England.set,
Against_Pakistan.set, Against_NewZealand.set, Against_SriLanka_2nd.set,
Against_Bangladesh.set]:
18         intersection_set = intersection_set.intersection(s)
19     print("Intersection of all 8 sets:", intersection_set)
20
21     # Compute the union of all 8 sets
22     union_set = set()
23     for s in [Against_SouthAfrica.set, Against_SriLanka.set, Against_Australia.set,
Against_England.set, Against_Pakistan.set, Against_NewZealand.set,
Against_SriLanka_2nd.set, Against_Bangladesh.set]:
24         union_set = union_set.union(s)
25     print("Union of all 8 sets:", union_set)

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