

Final Exam

Size of Set A: 935

Size of Set B: 2379

Size of set C: 368

All of the outputs I got from the combination I printed when I did my main so I was able to get all the sizes of each set when I did the Union, Intersect and Difference. For Union I had a while loop that would go through the sets and insert it into a new set to get the combination wouldn't duplicate because of my insert method. For intersect I had a while loop went through the set and found if that set match anything in the other set and adding it if it did. For Difference I had a while loop go through the set check to see if it was in the first set and not in the second and added it.

Test	Union	Intersect	Difference
A and B	2946	368	567
A and C	935	368	567
B and C	2379	368	2011
B and A	N/A	N/A	2011
C and A	N/A	N/A	0
C and B	N/A	N/A	0

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Size of set A: 935
Size of set B: 2379
Size of set C: 368

Test for Union:
Size of A and B: 2946
Size of A and C: 935
Size of B and C: 2379

Test for Intersect:
Size of A and B: 368
Size of A and C: 368
Size of B and C: 368

Test for Difference:
Size of A and B: 567
Size of B and A: 2011
Size of A and C: 567
Size of C and A: 0
Size of B and C: 2011
Size of C and B: 0
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