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 head 2 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 |

