

Object-oriented Programming

Fall 2020

Homework 1

Due Date: Wednesday, October 14, 2020

Set

We have shared a partial implementation of Set class. You are required to enhance and implement the following missing functions from the implementation:

- reset
- intersection
- difference

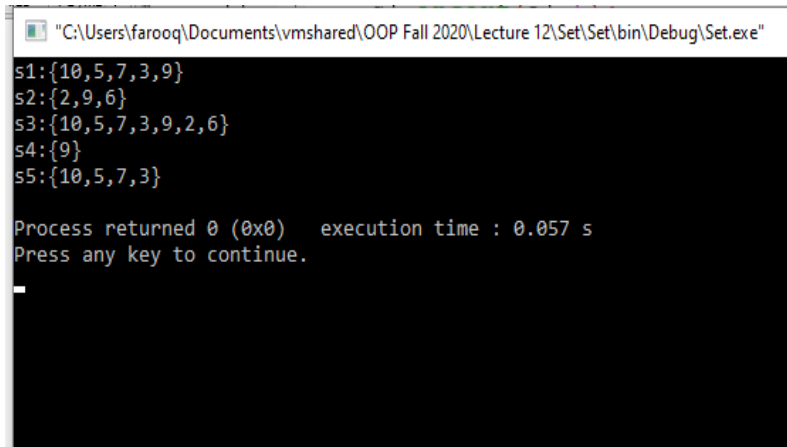
A possible driver program and expected output:

```
int a1[] = {10,5,7,3,9};
Set s1(5);
s1.insert(a1,5);
s1.print("s1");

int a2[] = {2,9,6};
Set s2(3);
s2.insert(a2,3);
s2.print("s2");

Set s3 = s1.unionset(s2);
Set s4 = s1.intersection(s2);
Set s5 = s1.difference(s2);

s3.print("s3");
s4.print("s4");
s5.print("s5");
```



```
"C:\Users\farooq\Documents\vmshared\OOP Fall 2020\Lecture 12\Set\Set\bin\Debug\Set.exe"
s1:{10,5,7,3,9}
s2:{2,9,6}
s3:{10,5,7,3,9,2,6}
s4:{9}
s5:{10,5,7,3}

Process returned 0 (0x0)   execution time : 0.057 s
Press any key to continue.
```

Submission

Submit the modified code (source files only) and a link to a recorded video / screencast (not more than 3 min), in your own voice, that explains your implementation. Video shall be uploaded on Google Drive and only its link shall be shared. Proper recording of your audio in which you explain the implementation is important for evaluation.