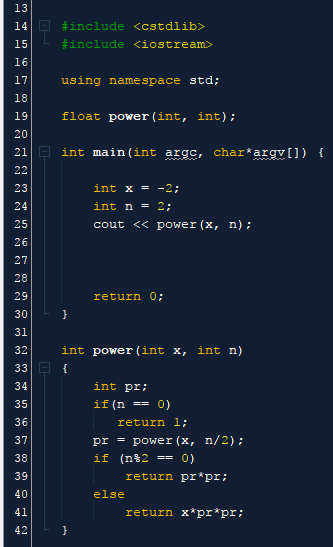
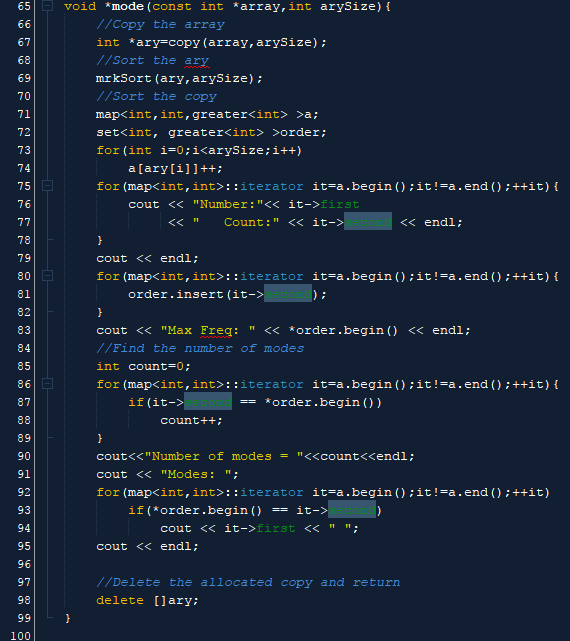
**Problem 10**

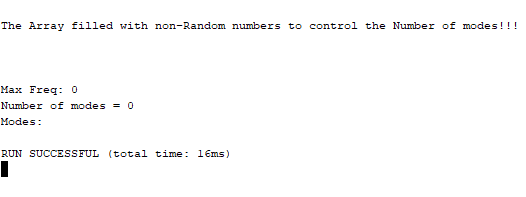


**Problem 13**

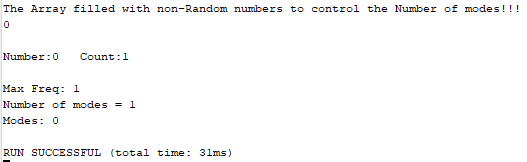
**Code : Ended up just changing the for loops instead of removing. Utilized Maps and Sets**



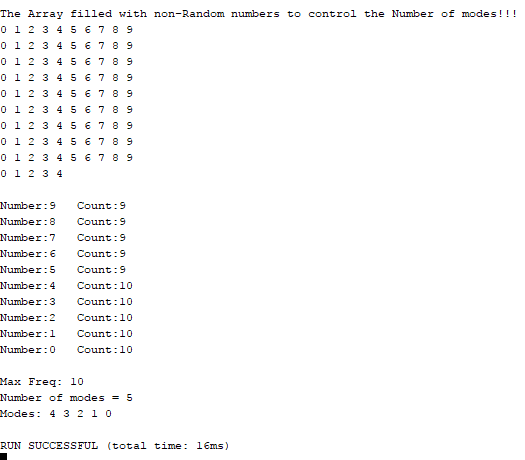
**No Modes**

****

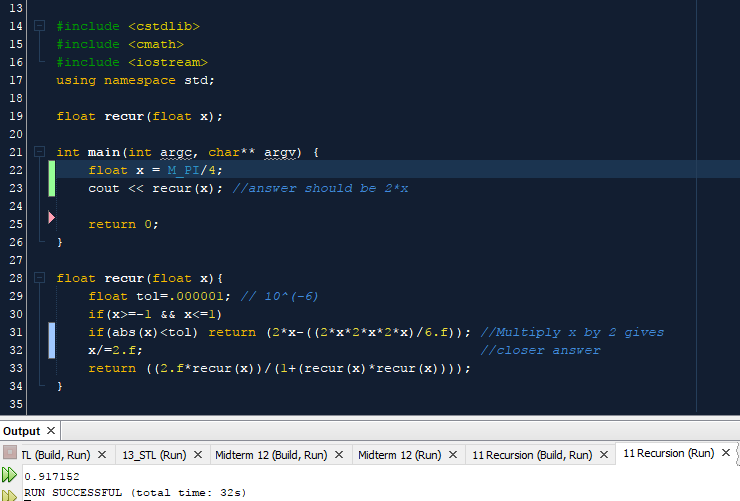
**One Mode**

****

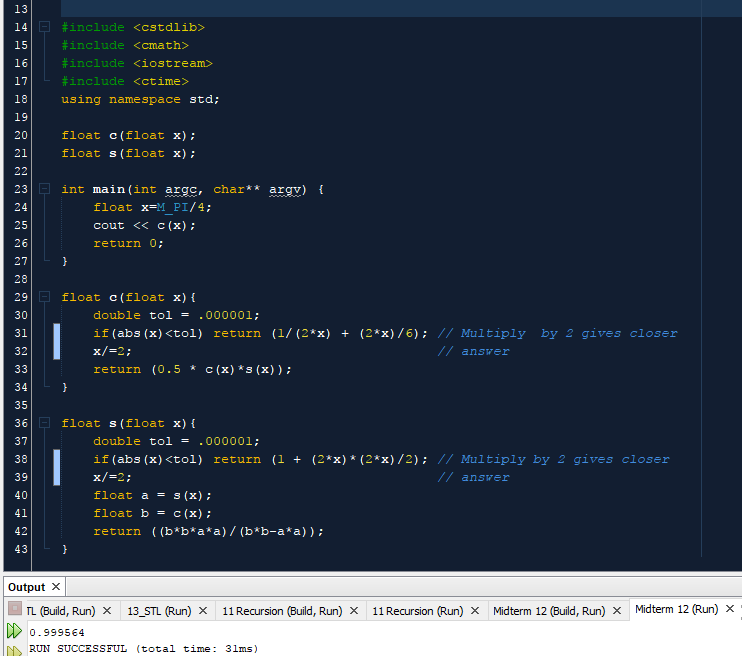
**Multiple Modes**

****

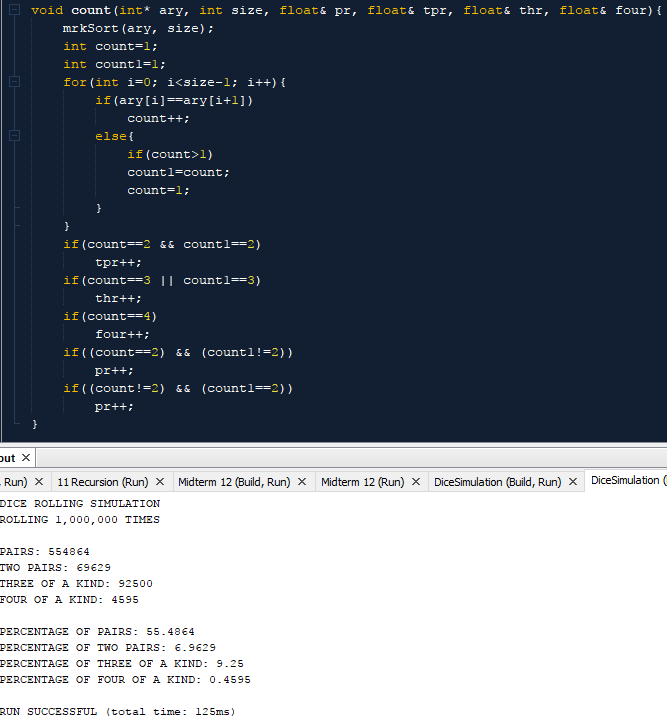
**Problem 11**

****

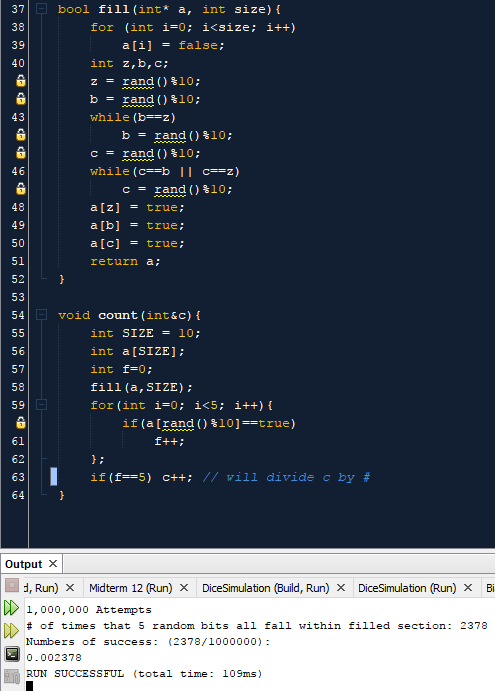
**Problem 12**

****

**Problem 8 Main Function + Simulation**

****

**Problem 9 Functions + Simulation**

****