**Airplane Seating Arrangement**

I used Java for the whole program.

First I found out the prime numbers ,power of two and other numbers from the passenger\_id.Then I have created arraylist of arraylist for storing the input array that represents the rows and columns.Then created method called Interval that is a user defined method for getting the values of column and row.

Then I found the highest row and total column from the values storied the arraylist of arraylist to create an overall array, which is the output array’s row and column for that I have used Two dimenstiontial array for creating final output array.

I get the first array input’s row length and column length by using that values then I have found the Window,Middle and Asile seats.

For the requirement I have filled the seat passengers starting from the front row to back, starting from the left to the right .

The I have filled aisle seats first with the Prime number Arraylist followed by window seats with the multiple of 2 power numbers Arraylist followed by center seats then other numbers with the found Passenger\_id that is prime number( first priority)and Passenger\_id with a number multiple of 2 power n will be given second priority.Then other numbers as third priority.

Then print the Output 2 dimensional array with the given priority.

And my code satisfies the Input Constraints

● 1 <= Rows, Columns <= 10^3

● 1 <= Passenger\_id <= 10^9

● Array size of passenger\_id will not exceed 10^9