

Activity 5.1- M.A.S.H.

Overview

M.A.S.H. is a text-based game that will predict your future! M.A.S.H. is an abbreviation for the potential future places of residence: Mansion, Apartment, Shack, House.

This activity provides experience adding items to, selecting items from, and iterating over ArrayLists.

Instructions

Getting Started

1. Create an "Activity5.1" directory in VScode.
2. Import "[MASHGame.java](#)".
3. Verify the import was successful by running the game. You should have output similar to that shown below:

```
----- Future Possibilities Database -----
Home List: mansion apartment shack house
-----

Please enter your name: Luke

Welcome Luke, this is your future...
You will marry ? and live in a mansion.
After 22 years of marriage, you will finally get your dream job of being a ?.
Your family will move to a ? in ? where you will ? to work each day.
```

Part 1: Populate ArrayLists with items

Work through TODO comments 1 through 5 and add at least 4 items to each ArrayList. The first one (homeList) is done for you.



Part 2: Print the contents of the ArrayLists

Work through TODO comments 6 through 10 to print the contents of each ArrayList. You will use four different methods of displaying ArrayList contents, so pay attention to the specific method required for each TODO comment. The first one (homeList) is done for you. The items in each ArrayList should be separated by commas when printed as shown in the screenshot below.

Part 3: Random selections from ArrayLists

Work through TODO comments 11 and 12 to randomly select items from each ArrayList. The first one (firstHome) is done for you. The following screen screenshot shows a possible future predicted by M.A.S.H.

```
----- Future Possibilities Database -----  
Home List: mansion, apartment, shack, house,  
Spouse List1: [Robin, Lily, Nora, Patrice, Zoey, Quinn]  
Spouse List2: Ted, Marshall, Barney, Ranjit, Carl, Linus,  
Occupation List: teacher, architect, lawyer, newscaster, undercover agent,  
Transportation List: walk, ride the train, ride a bus, fly an airplane, carpool,  
Hometown List: Cleveland, Queens, The Bronx, Brooklyn, Manhattan, Staten Island,  
-----
```

```
Please enter your name: Luke
```

```
Welcome Luke, this is your future...  
You will marry Barney and live in a shack.  
After 7 years of marriage, you will finally get your dream job of being a teacher.  
Your family will move to a apartment in The Bronx where you will walk to work each  
day.
```

Terminology Identification

In your code add comments identifying examples of the following: ArrayList, for-each loop, iterator, object reference. These should be identified with an @keyterm tag within the comment.

Code Review

When you are finished with this activity, pair up with a classmate and review each other's code to make sure it meets all the requirements.



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Submission

After completing the assignment, use the assignment link in Canvas and follow the submission instructions there. You will upload your `MASHGame.java` file and submit your reflection in the "Comments" box.

Reflection Requirements

Write a one paragraph reflection describing your experience with this activity. The reflection should also include the name of your code review partner AND something interesting you found in their code. Please review the activity rubric for more details.

