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| **Skill 15.1 Exercise 1** | |
| Refer to the image below to answer the following,      0  1  2  3 | |
| Who lives at index = 0? |  |
| Who lives at index = 2? |  |
| If the houses on the street represent an array, how long is the array? |  |
| Who lives at index = 4? |  |
| What is Marvin’s address? |  |
| What is Kyle’s address? |  |

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| **Skill 15.2 Exercise 1** |
| The image below represents an array of String type variables called houses. The value associated with each house corresponds to the name of the person who lives there. |
| (a) Write code that could be used to declare and initialize the array, but does not populate it. |
| (b) Write the address of each house on the roof. |
| (c) Write code that could be used to assign the value of house 3 to “Wilma”, and the value of house 6 to “Barney”, and the value of house 2 to “Homer” |
| (d) What is the value of the house with address 4? |
| (e) Homer and Barney have decided to trade houses. Write code to assign Homer and Barney to their new homes. |

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| **Skill 15.3 Exercise 1** |
| Write code that could be used to alphabetize the Strings s1, s2, and s3 as shown below,   |  |  | | --- | --- | | **Values of Strings s1, s2, and s3 before** | **Values of s1, s2, and s3 after** | | String s1 = “cat”;  String s2 = “car”;  String s3 = “dog”; | String s1 = “car”;  String s2 = “cat”;  String s3 = “dog”; | | String s1 = “dog”;  String s2 = “cat”;  String s3 = “car”; | String s1 = “car”;  String s2 = “cat”;  String s3 = “dog”; | |
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| **Skill 14.2 Exercise 1** |
| Consider the string below. Write code that will (a) count all the words and (b) count all the a’s, b’s, and c’s |
| String message = "I love to code!";  Scanner sc = new Scanner(message); |