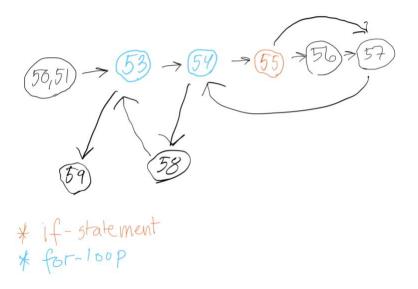
Graph - isnotTooAllergic

We chose the method isNotTooAllergic in the Person-class. The method loops through the list of allergies from the person and the list of allowed foods in the passed diet. If the two lists contain the same food-object the double datatype called numberOfAllergicMatch will increment. We use the debugger to step over the method.

1c
//Person allergic to less than 50% of the food.



The allergies list consists of 3 food-objects. The for-loop will run 3 times. The list of allowed food also consists of 3 food-objects. Food1 and Food1 in the two lists are the same so the double datatype increments and is now 1(Line 55). The for-loop runs 3 times and increments by 1 in total. Once the for-loop has executed 3 times the boolean-value (Line 59) is returned.

1d //Person with no allergies

```
@Test // Person with no allergies
void testIsNotTooAllergic_ld(){
   Food food1 = new Food( name: "Mais", caloriesPer100g: 150, isVegan: true, FoodType.PROTEIN);
   Food food2 = new Food( name: "Brokkoli", caloriesPer100g: 150, isVegan: true, FoodType.PROTEIN);
   Food food3 = new Food( name: "Gulratter", caloriesPer100g: 150, isVegan: true, FoodType.PROTEIN);
   Food food4 = new Food( name: "Agurk", caloriesPer100g: 150, isVegan: true, FoodType.PROTEIN);
   Food food5 = new Food( name: "Kisttkaker", caloriesPer100g: 150, isVegan: false, FoodType.PROTEIN);
   Food food6 = new Food( name: "Ribbs", caloriesPer100g: 150, isVegan: false, FoodType.PROTEIN);

ArrayList<Food> allergies = new ArrayList<>();
   ArrayList<Food> allowedFoods = new ArrayList<>(List.of(food1, food4, food5));

Diet diet = new LowCarbDiet( daysDuration: 11, purpose: "hh", allowedFoods, isVegan: true, minWeightKg: 75);

   Person person1 = new Person(food1, allergies, diet, weight: 75);

   assertTrue(person1.isNotTooAllergic(diet));
}
```



The allergies list consists of 0 objects so the for-loop won't run.

1e //Person with 0% allergies

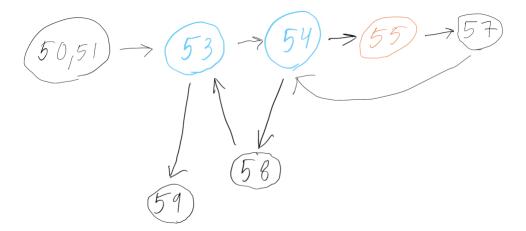
```
@Test // Person with 0% allergies
void testIsNotTooAllergic_1e(){
   Food food1 = new Food( name: "Mais", caloriesPer100g: 150, isVegan: true, FoodType.PROTEIN);
   Food food2 = new Food( name: "Brokkoli", caloriesPer100g: 150, isVegan: true, FoodType.PROTEIN);
   Food food3 = new Food( name: "Gulretter", caloriesPer100g: 150, isVegan: true, FoodType.PROTEIN);
   Food food4 = new Food( name: "Agurk", caloriesPer100g: 150, isVegan: true, FoodType.PROTEIN);
   Food food5 = new Food( name: "Kigttkaker", caloriesPer100g: 150, isVegan: false, FoodType.PROTEIN);
   Food food6 = new Food( name: "Ribbe", caloriesPer100g: 150, isVegan: false, FoodType.PROTEIN);

ArrayList<Food> allergies = new ArrayList<>(List.of(food2, food3, food6));
   ArrayList<Food> allowedFoods = new ArrayList<>(List.of(food1, food4, food5));

Diet diet = new LowCarbDiet( daysDuration: 11, purpose: "hh", allowedFoods, isVegan: true, minWeightKg: 75);

Person person1 = new Person(food1, allergies, diet, weight: 75);

assertTrue(person1.isNotTooAllergic(diet));
}
```



The for-loop (Line 53) will loop 3 times and the for-loop (Line 54) will loop 3 times. Neither of the food-objects are the same so an increment will not happen. After the for-loops are executed the boolean-value will be returned (Line 59).