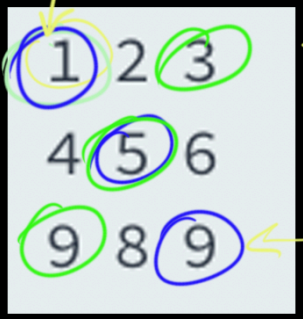


$1+5+9 = 15$

$3+5+9 = 17$

$|15-17| = 2$

data.get(0).get(0)

data.get(2).get(2)

List<List<Int>>

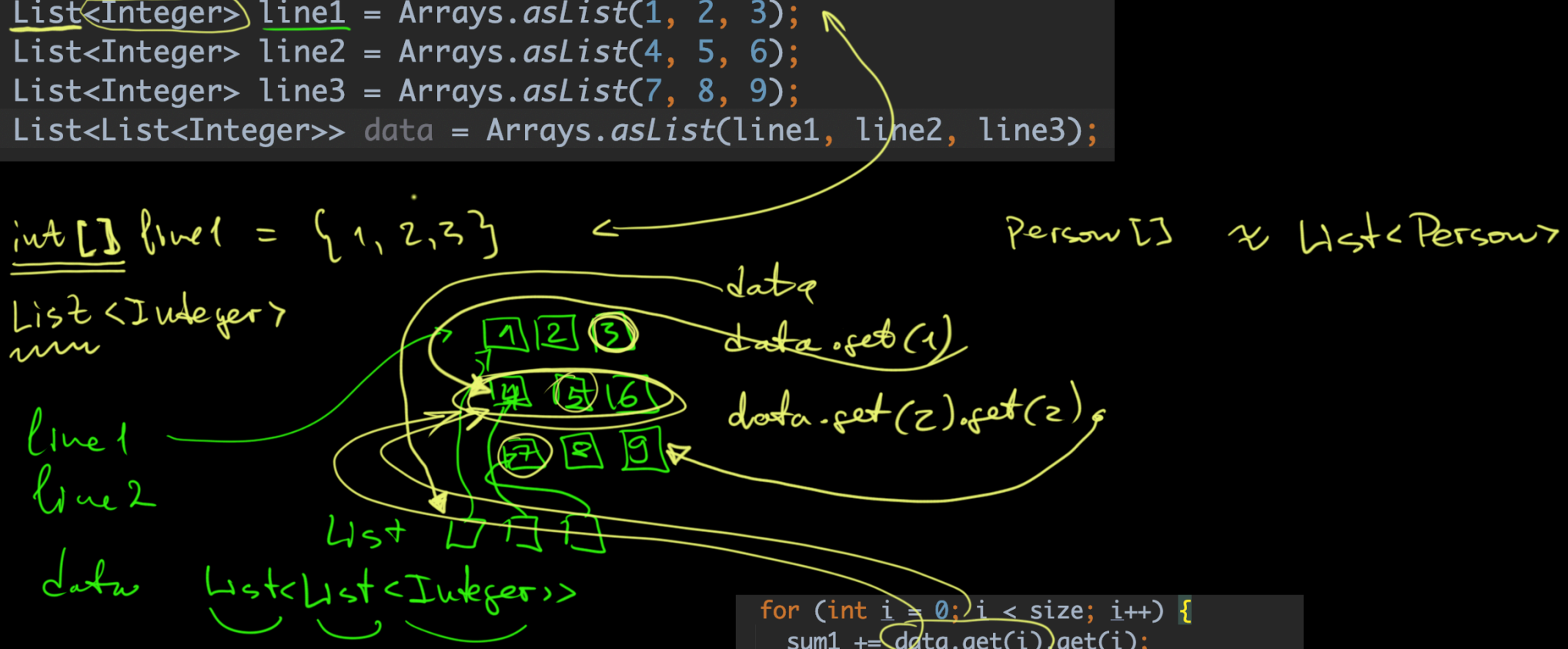
List<Int>

Int

1 x x
x 5 x
x x 9

x x 3
x 5 x
9 x x

```java
List<Integer> line1 = Arrays.asList(1, 2, 3);
List<Integer> line2 = Arrays.asList(4, 5, 6);
List<Integer> line3 = Arrays.asList(7, 8, 9);
List<List<Integer>> data = Arrays.asList(line1, line2, line3);
```




```java
for (int i = 0; i < size; i++) {
  sum1 += data.get(i).get(i);
  sum2 += data.get(i).get(size - i - 1);
}
```

```java
public class DiagonalDifferenceV2 {

  public int diagonalDifference(List<List<Integer>> data) {
    int size = data.size();

    int sum1 = 0;
    int sum2 = 0;
    for (int i = 0; i < size; i++) {
      List<Integer> row = data.get(i);
      sum1 += row.get(i);
      sum2 += row.get(size - i - 1);
    }

    return Math.abs(sum1 - sum2);
  }

}
```

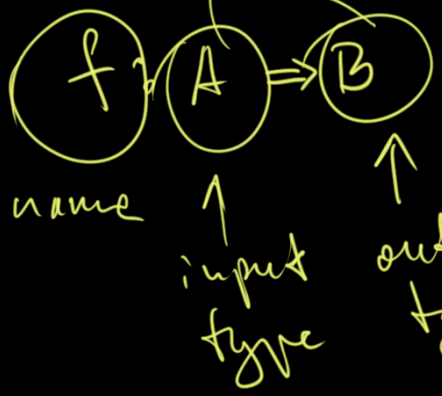
```java
public class DiagonalDifferenceV3 {

  public int diagonalDifference(List<List<Integer>> data) {
    int size = data.size();

    int sum = 0;
    for (int i = 0; i < size; i++) {
      List<Integer> row = data.get(i);
      sum = sum + row.get(i) - row.get(size - i - 1);
    }

    return Math.abs(sum);
  }

}
```



add (Double, Double) -> Double

add (Double, Double) -> Int

different

overl.

we can't have both in one class

add (Double, Double) -> Double

add (Int, Int) -> Double