```java
public class City {
	String name;
	int population;

	public City(int newPop, String newName) {
		population = newPop;
		name = newName;
	}

	public String getName() {
		return name;
	}

	public void changeName(String newName) {
		name = newName;
	}

	public int getPopulation() {
		return population;
	}

	public String toString() {
		return getName() + ":    " + getPopulation();
	}

	public void setPopulation(int newPop) {
		population = newPop;
	}
}


//*****************************************************************************
**

public class Almanac {
	/**
	 * Almanac contains an Array of City objects
	 */
	City[] list;

	public Almanac() {
		list = new City[5];

		list[0] = new City(1547000, "Philadelphia");
		list[1] = new City(443775, "Atlanta");
		list[2] = new City(636470, "Boston");
		list[3] = new City(8336000, "New York");
		list[4] = new City(277347, "Newark");
	}

	public Almanac(int x) {
		list = new City[x];
	}
```

```java
/**
 * Displays List of Cities
 */

public void printList() {


}

/**
 * Find the city with the smallest population return the name.
 */

public String smallestPop() {



}

/**
 * Returns the average population
 */

public double averagePop() {



}

/**
 * Changes the population of a City that matches searchName to newPopulation
 */

public void changePop(String searchName, int newPopulation) {



}
/**
* this method will add rate% to each population in the list
*/

public void increasePop(double rate) {



}

}

public static void main(String[] args) {
	Almanac tc = new Almanac();
	tc.printList();
```

```
            System.out.println("Average Population: " + tc.averagePop());
            System.out.println("Smallest: " + tc.smallestPop());
            tc.changePop("Newark", 15);
            System.out.println("After Change");
            tc.printList();
            tc.increasePop(3);
            System.out.println("After Increase");
            tc.printList();
        }

}
```