Note that in your test run udding venus
Cauted a big Jump in area. But
Hen Enith, larger Men venus, routed
barely pay increase. That should
have been a close that something
wont wary.

one publem is that you have 2 paired armys -- planet volumes in 1, planet numes in the other. Ywedpert index o in each to the Same plane? But I array yors O... 7 in order of decrusing plant volume, and the other gres in order of increasing distance from the sun, that's why later planets make no to radio diff - yourded buyest volume 1st.

```
Ringworld is a class that constructs data that simulates
   a Ringworld, which is a ring that orbits around a star
 * that is comprised of all of the planets in the universe.
  Ringworld uses two auxiliary classes, Planet and Converter, to make conversion tasks and planet data easy to access.
 * It's a very bad idea to store the dimensions of the Ringworld
   in constants because they cannot be converted into other
   units. So, we will have to make copies of each of the
   constant instance fields in methods that use them in order
   to manipulate our units to all agree and be constant.
 *
   Group Members:
   Luke Pastore
   Ansh Motiani
   Gar Rudnyai
 * @author Gar Rudnyai
   @version April 17, 2020
public class Ringworld
     private double [] planets;
     private double totalVolumeMi3;
     private double RWLengthMi;
    private double RWLENGTHMI;
private final double EARTH_SURFACE_AREA_MI2 = 196.94 * Math.pow(10, 6);
private final double RW_INNER_SURFACE_WIDTH_MI = 9.0 * Math.pow(10, 5);
private final double RW_INNER_SURFACE_HEIGHT_M = 1.0 * Math.pow(10, 2);
private final double RW_OUTER_SURFACE_WIDTH_M = 1.0 * Math.pow(10, 2);
private final double RW_OUTER_SURFACE_HEIGHT_MI = 1.0 * Math.pow(10, 3);
     /**
        Constructor for Ringworld objects, sets volume and the
      * length of the ringworld to zero
      * @param planets 1D array of volumes of all eight planets
     public Ringworld(double[] planets)
          this.planets = new double[planets.length];
          for(int i = 0; i < this.planets.length; i++/)
               this.planets[i] = planets[i];
          this.totalVolumeMi3 = 0;
          this.RWLengthMi = 0;
     }
                                                                               Menter Market
     /**
        Returns the volume of a planet in the array of doubles
      * @return the volume of a given planet in cubic miles
     public double getPlanetVolume(int index)
          return Converter.ft3ToMi3(planets[index]);
      * Adds a specified volume, in cubic miles, to the Ringworld
      * @param amountMi3 amount´of volume to add in cubic miles
     public void addVolume(double amountMi3)
```

```
{
    this.totalVolumeMi3 += amountMi3;
double outerSurfaceWidthCopyM = this.RW_OUTER_SURFACE_WIDTH_M;
    double_innerSurfaceHeightCopyM_ = this.RW_INNER_SURFACE_HEIGHT_M
    this.RWLengthMi = this.totalVolumeMi3 /
         (2 * (Converter.MetersToMi(outerSurfaceWidthCopyM) *
         RW_OUTER_SURFACE_HEIGHT_MI) + (RW_INNER_SURFACE_WIDTH_MI
         Converter.MetersToMi(innerSurfaceHeightCopyM)));
}
/**
   Returns the radius of the Ringworld in astronomical units
 * @return radius of the Ringworld in astronomical units
public double getRadius()
    double radiusMi = RWLengthMi / (2 * Math.PI);
    double radiusAU = Converter.MiToAU(radiusMi);
    return radiusAU;
}
/**
 * Returns the surface area of the Ringworld in earth units * @return the surface area of the Ringworld in earth units
public double getArea()
    double surfaceAreaMi2 = RW_INNER_SURFACE_WIDTH_MI *
         RWLenathMi;
    double surfaceAreaEarthUnits = Converter.Mi2ToEarthUnits(
         surfaceAreaMi2);
    return surfaceAreaÉarthUnits:
}
```

}

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