Memory Models: Concept Challenge



This work is licensed under a <u>Creative Commons</u>
<u>Attribution-ShareAlike 4.0 International License</u>
by Christine Alvarado, Mia Minnes, and Leo Porter, 2015.

Concept Challenge: Procedure

- Pause: Try to solve the problem yourself
- Discuss with other learners (if you can)
- Watch the UCSD learners video
- Confirm your understanding with our explanation



```
public class LocationTester
{
   public static void main(String[] args)
   {
      SimpleLocation lima =
        new SimpleLocation(-12.0, -77.0);
   }
}
```

Pause: Draw the memory model for this code

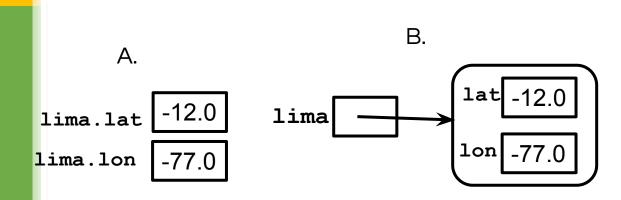


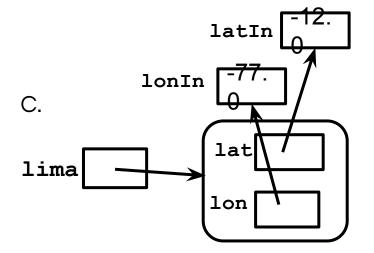
```
public class LocationTester
{
   public static void main(String[] args)
   {
      SimpleLocation lima =
        new SimpleLocation(-12.0, -77.0);
   }
}
```

<IVQ Placeholder>

Which of the following is the correct memory model

for this code?





D. None of these

lima

```
public class LocationTester
{
   public static void main(String[] args)
   {
      SimpleLocation lima =
        new SimpleLocation(-12.0, -77.0);
   }
}
```

```
public class LocationTester
{
   public static void main(String[] args)
   {
      SimpleLocation lima =
        new SimpleLocation(-12.0, -77.0);
   }
}
```

```
public class LocationTester
{
   public static void main(String[] args)
   {
      SimpleLocation lima =
        new SimpleLocation(-12.0, -77.0);
   }
}
```

```
public class LocationTester
{
   public static void main(String[] args)
   {
      SimpleLocation lima =
        new SimpleLocation(-12.0, -77.0);
   }
}
```

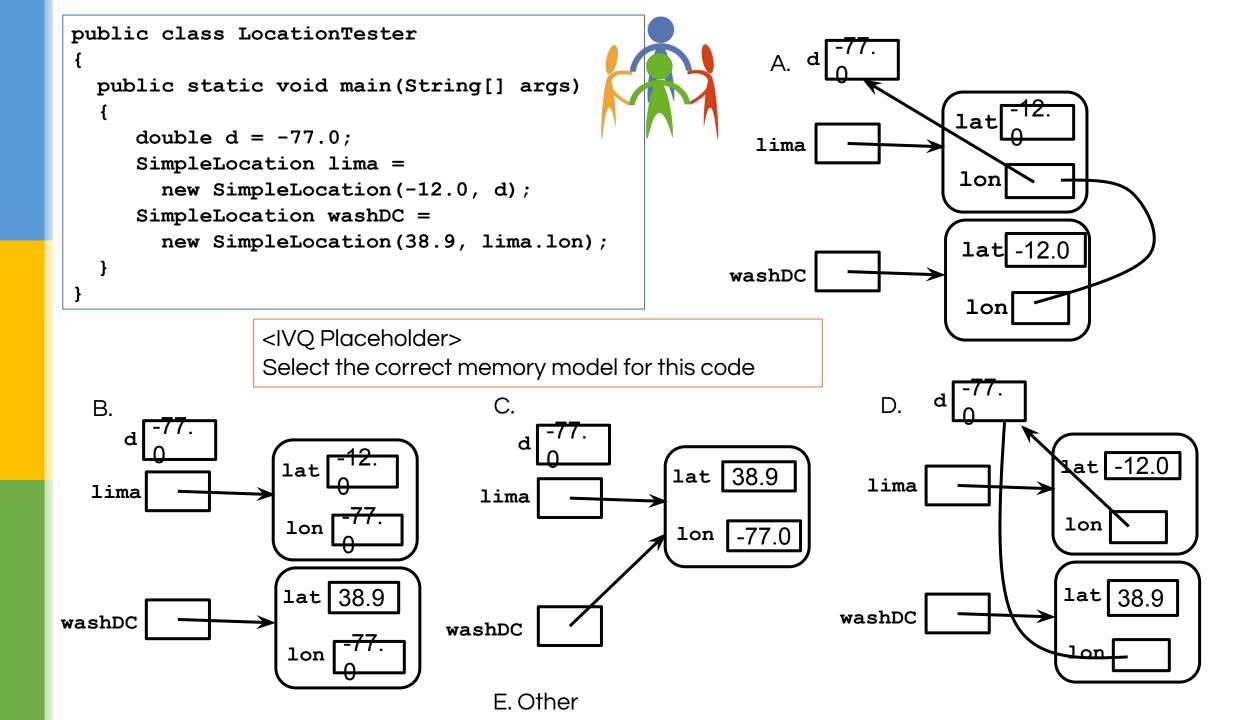
```
public class LocationTester
{
  public static void main(String[] args)
  {
    SimpleLocation lima =
      new SimpleLocation(-12.0, -77.0);
  }
}
```

```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```

```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```

Pause: Draw the memory model for this code



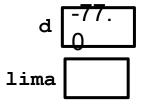


Break here for Learner Video

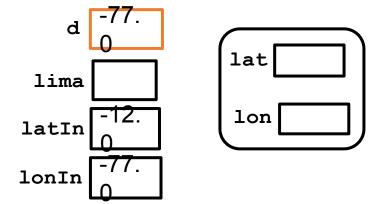
```
public class LocationTester
{
   public static void main(String[] args)
   {
       double d = -77.0;
       SimpleLocation lima =
           new SimpleLocation(-12.0, d);
       SimpleLocation washDC =
           new SimpleLocation(38.9, lima.lon);
    }
}
```

```
d -77.
```

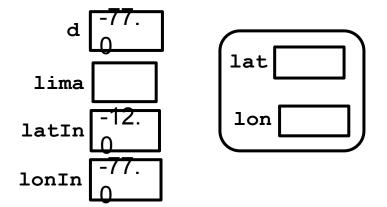
```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```



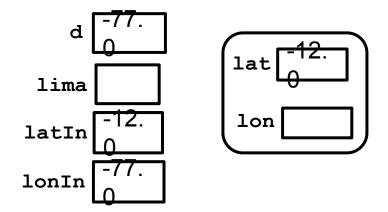
```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```



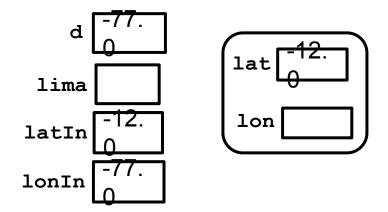
```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```



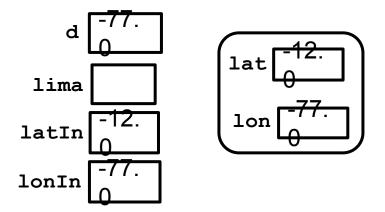
```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```



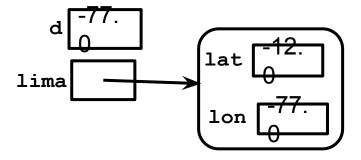
```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```

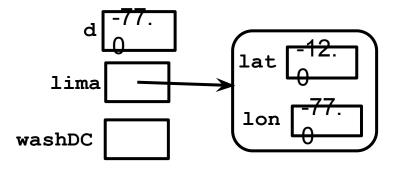


```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```

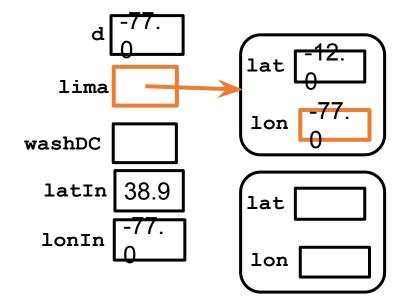


```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```

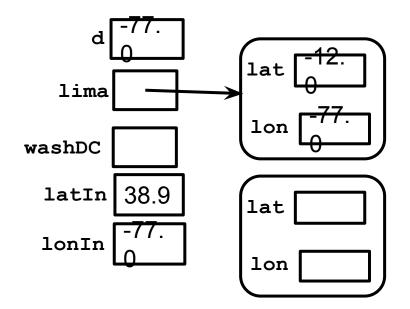




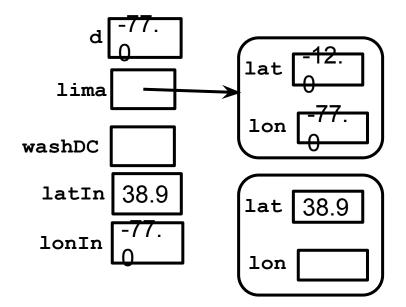
```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```



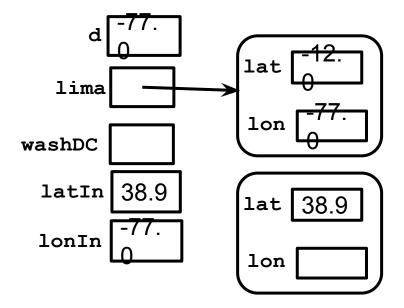
```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```



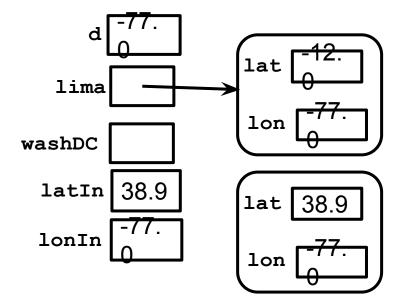
```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```

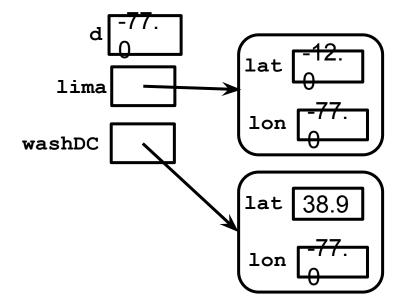


```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```



```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```





```
public class LocationTester
{
   public static void main(String[] args)
   {
      double d = -77.0;
      SimpleLocation lima =
        new SimpleLocation(-12.0, d);
      SimpleLocation washDC =
        new SimpleLocation(38.9, lima.lon);
   }
}
```

