

The scene:



Photo courtesy: shutterstock.com

* These correspond to driveways/alleyways/dead-ends that only appear on one street, as mentioned in the prompt

Representation in Intersection Data:

```
<node id="A" lat="2.5" lon="5.6"/>
<node id="B" lat="4.5" lon="8.6"/>
<node id="C" lat="2.5" lon="2.6"/>
<node id="D" lat="4.7" lon="4.8888"/>
```

Representation in Map Data:

```
<way id = "123" ... />
  <nd ref = "A"/>
  <nd ref = "C"/>
  <nd ref = "D"/>
  ...
  <tag k="tiger:name_base" v="Main"/>
  ...
</way>
...
<way id = "2468" ... />
  <nd ref = "A"/>
  <nd ref = "B"/>
  ...
  <tag k="tiger:name_base" v="Broad"/>
  ...
</way>
...
<way id = "987" ... />
  <nd ref = "B"/>
  ...
  <tag k="tiger:name_base" v="Chestnut"/>
  ...
</way>
```

Problem 1: loadIntersectionIDs

Expected output:

```
Set with values ["A", "B", "C", "D"]
```

Problem 2: loadMapInfo

Expected output:

```
Map with key/value pairs
  "A": ["Broad", "Main"]
  "B": ["Chestnut", "Broad"]
  "C": ["Main"]
  "D": ["Main"]
```

Problem 3: buildIntersectionGraph

Expected output:

```
StreetGraph representing such a graph
```

