Design pattern for graph processing

Design pattern. Decouple graph data type from graph processing.

- Create a Graph object.
- Pass the Graph to a graph-processing routine.
- Query the graph-processing routine for information.

```
public class Paths

Paths(Graph G, int s) find paths in G from source s

boolean hasPathTo(int v) is there a path from s to v?

Iterable<Integer> pathTo(int v) path from s to v; null if no such path
```

```
Paths paths = new Paths(G, s);
for (int v = 0; v < G.V(); v++)
   if (paths.hasPathTo(v))
        StdOut.println(v);</pre>
print all vertices
        connected to s
```