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Write-Up Question #4

1. adjacentVertices - |E| because it looks through every edge inside the set of edges related to the vertex

edgeCost – Also |E| because it looks through every edge’s weight.

1. In vertices() and edges(), I return the new variable that I created in order to avoid returning the actual elements inside my private field. I also, made my field “final” in order to protect it from clients changing it.
2. In order to test my code, I manually created the vertices and edges that would give me an error. For example, I created an edge with negative weight and an edge that lead to a vertex that didn’t exist, to test those edge cases.