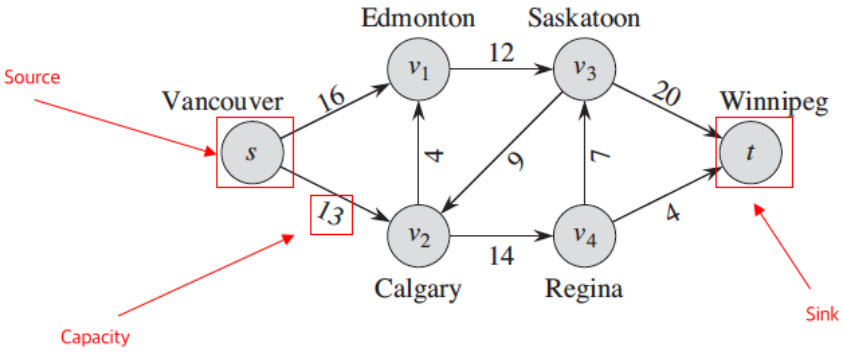
CSC373 Worksheet 5 Solution

August 7, 2020

1. **Notes**

- **Maximum Flow Problem:**
  - Is about computing the greatest rate at which we can ship material from the source to the sink without violating any capacity constraints

- **Flow Network:**
  - $G = (V, E)$ is a directed graph in which each edge $(u, v) \in E$ has a nonnegative capacity $c(u, v) \geq 0$.
  - Two vertices must exist: **source** s and **sink** t
  - **path** from source s to vertax v to sink t is represented by $s \rightsquigarrow v \rightsquigarrow t$



- **Capacity:**
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- **Flow:**