Chapter 1

References for complex Latex commands

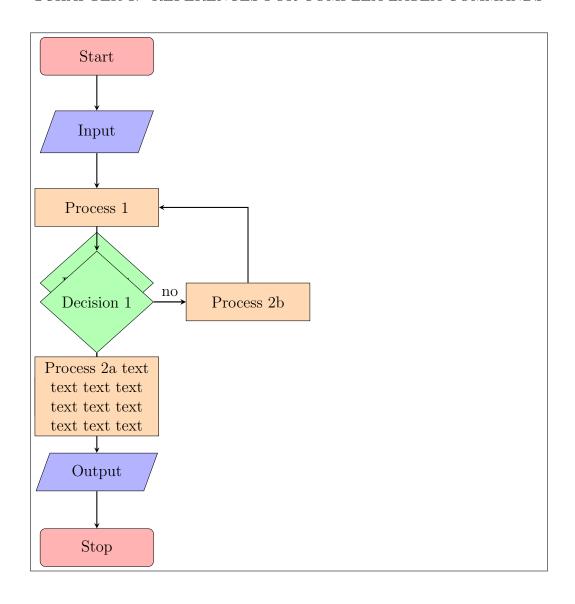
1.1 Basic Flowchart

All flowcharts related latex commands can be followed here.

Reference: https://www.sharelatex.com/blog/2013/08/29/tikz-series-pt3.html

```
% Create Tikz style, something like typedef in C,
where we can specify the shape, color, size, text details
\tikzstyle{startstop} = [rectangle, rounded corners,
   minimum width=3cm,
minimum height=1cm, text centered, draw=black, fill=red
\tikzstyle{io} = [trapezium, trapezium left angle=70,
   trapezium right angle=110, minimum width=3cm, minimum
   height=1cm, text centered, draw=black, fill=blue!30]
%\tikzstyle{process} = [rectangle, minimum width=3cm,
   minimum height=1cm, text centered, draw=black, fill=
   orange!30]
\tikzstyle{process} = [rectangle, minimum width=3cm,
   minimum height=1cm, text centered, text width=3cm,
   draw=black, fill=orange!30]
\tikzstyle{decision} = [diamond, minimum width=3cm,
   minimum height=1cm, text centered, draw=black, fill=
\tikzstyle{arrow} = [thick,->,>=stealth]
```

2 CHAPTER 1. REFERENCES FOR COMPLEX LATEX COMMANDS



```
node_var style display text
\node (start) [startstop] {Start};
\node (in1) [io, below of=start] {Input};
\node (pro1) [process, below of=in1] {Process 1};
\node (dec1) [decision, below of=pro1] {Decision 1};
\node (dec1) [decision, below of=pro1, yshift=-0.5cm] {
   Decision 1:
\node (pro2a) [process, below of=dec1, yshift=-0.5cm] {
   Process 2a};
\node (pro2b) [process, right of=dec1, xshift=2cm] {
   Process 2b};
\node (out1) [io, below of=pro2a] {Output};
\node (stop) [startstop, below of=out1] {Stop};
\draw [arrow] (start) -- (in1);
\draw [arrow] (in1) -- (pro1);
\draw [arrow] (pro1) -- (dec1);
\draw [arrow] (dec1) -- (pro2a);
\draw [arrow] (dec1) -- (pro2b);
\draw [arrow] (dec1) -- node[anchor=east] {yes} (pro2a);
\draw [arrow] (dec1) -- node[anchor=south] {no} (pro2b);
\draw [arrow] (pro2b) |- (pro1);
\draw [arrow] (pro2a) -- (out1);
\draw [arrow] (out1) -- (stop);
\node (pro2a) [process, below of=dec1, yshift=-0.5cm] {
   text text};
\end{tikzpicture}
\end{figure}
```