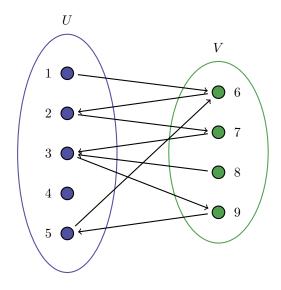


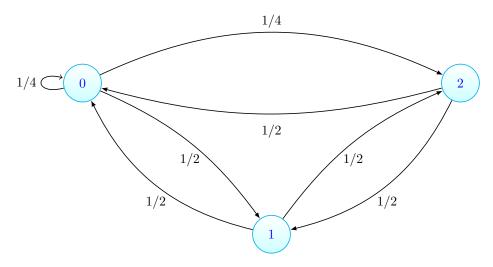
EXAMPLE 3.



```
\begin{tikzpicture}[thick,
  every node/.style={draw,circle},
  fsnode/.style={fill=myblue},
  ssnode/.style={fill=mygreen},
  every fit/.style={ellipse,draw,inner sep=-2pt,text width=2cm},
  ->,shorten >= 3pt,shorten <= 3pt
% the vertices of U
\begin{scope}[start chain=going below,node distance=7mm]
  \foreach \i in \{1,2,\ldots,5\}
  \node[fsnode,on chain] (f\i) [label=left: \i] {};
\end{scope}
% the vertices of V
\begin{scope}[xshift=4cm,yshift=-0.5cm,start chain=going below,node distance=7mm]
  \foreach \i in \{6,7,\ldots,9\}
  \node[ssnode,on chain] (s\i) [label=right: \i] {};
\end{scope}
% the set U
\node [myblue,fit=(f1) (f5),label=above:$U$] {};
\node [mygreen,fit=(s6) (s9),label=above:$V$] {};
% the edges
\draw (f1) -- (s6); \draw (s6) -- (f2); \draw (f2) -- (s7);
\draw (s7) -- (f3); \draw (s8) -- (f3); \draw (f3) -- (s9);
\draw (s9) -- (f5); \draw (f5) -- (s6);
\end{tikzpicture}
```

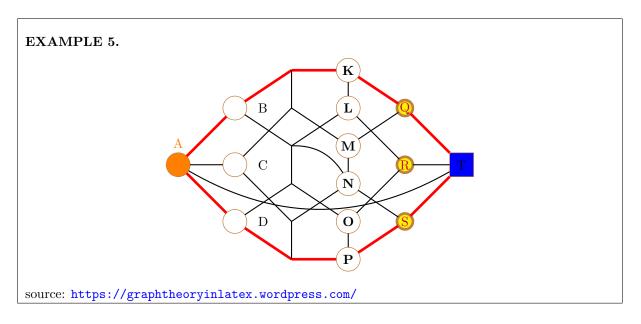
source http://tex.stackexchange.com/questions/15088/bipartite-graphs

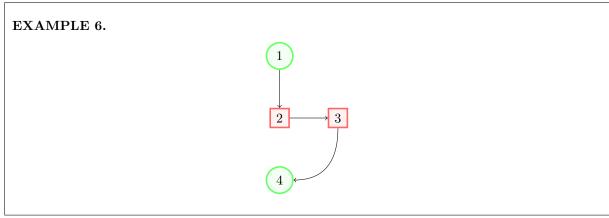
EXAMPLE 4.

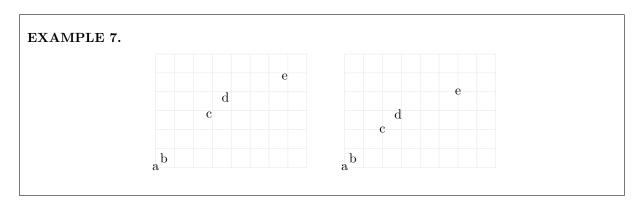


```
\definecolor{processblue}{cmyk}{0.96,0,0,0}
\begin {tikzpicture}[
   -latex, auto, node distance=4 cm and 5cm, on grid, semithick,
   state/.style={circle,top color=white,bottom color=processblue!20,
     draw,processblue,text=blue,minimum width=1cm}
  \node[state] (C) {$1$};
  \node[state] (A) [above left=of C] {$0$};
  \node[state] (B) [above right =of C] {$2$};
  \path (A) edge [loop left] node[left] {\$1/4\} (A);
  \path (C) edge [bend left =25] node[below =0.15 cm] {$1/2$} (A);
  \path (A) edge [bend right = -15] node[below =0.15 cm] \{$1/2$\} (C);
  \path (A) edge [bend left =25] node[above] {\$1/4\} (B);
  \path (B) edge [bend left =15] node[below =0.15 cm] {\$1/2\} (A);
  \path (C) edge [bend left =15] node[below =0.15 cm] {\$1/2\} (B);
  \path (B) edge [bend right = -25] node[below =0.15 cm] {$1/2$} (C);
\end{tikzpicture}
```

source http://www.guitex.org/home/images/doc/GuideGuIT/introingtikz.pdf







EXAMPLE 8. Hello ● source: pgfmanual (page 115) http://ctan.sharelatex.com/tex-archive/graphics/pgf/base/doc/pgfmanual.pdf#page=41

