# Section title

This is a placeholder for writing contents

## Image

This is an how we can refer to an image, see figure 1.

```
mygraphviz = import ./graphviz.nix {
  inherit mkDerivation fontconfig libjpeg bzip2;
  gd = customgd;
};
```

Figure 1: Leopard icon

There are other ways of showing sub-images and display sub-captions like using in latex, see figure 2

## Table

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# Section title

## Mathematics in latex

Check equation 1.

$$f(x) = s_0 = \frac{\sum_i n_i^T (x - x_i) \Phi_i(x)}{\sum_i \Phi_i(x)} \tag{1}$$

./images/Leopard-ICON-circle.png ./images/Leopard-ICON-circle.png
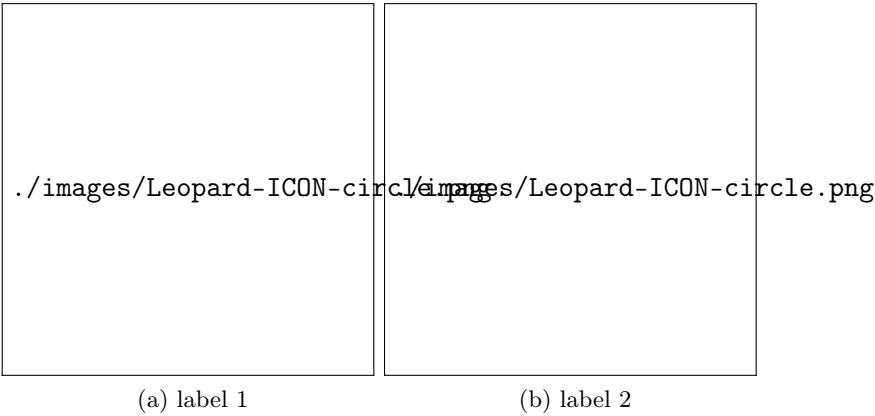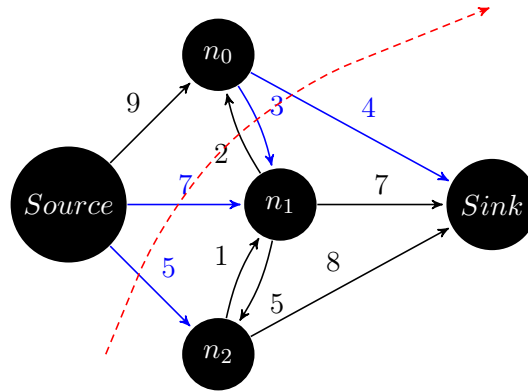
    (a) label 1         (b) label 2

Figure 2: figures with captions

To have a set of equations and to align them:

$$\begin{aligned} \max \quad & \mathbf{c}^T \mathbf{x} \\ s.t. \quad & \mathbf{A}\mathbf{x} \leq \mathbf{b} \\ & \mathbf{x} \geq \mathbf{0} \end{aligned} \tag{2}$$

## Graph

Check out the graph in figure 3.

Figure 3: Max flow min cut, max flow = 19



## Algorithm

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**Algorithm 1** How to write algorithms

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**Data:** Initial bounding-box $Q_0$ for $\Theta$, $QBest = Q_0$, $delta = 3$, stack $\Omega = \{Q_0\}$
**Result:** Optimal Q* $= QBest \in \Omega$
**while** $U_k - L_k > 1$ **do**
    *Pop $Q_k \in \Omega$*
    *Prune $\Omega$ if current node is impossible solution node*
    *Compare $L_k$ from $Q_k$ and $QBest$*
    **if** $Q_k.L_k > QBest.L_k$ **then**
        | $QBest = Q_k$
    **end**
    *Split Q into $Q_I$ and $Q_{II}$*
    *Find best condidate from $Q_I$ and $Q_{II}$ and add them to stack $\Omega$*
**end**

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## Flowchart

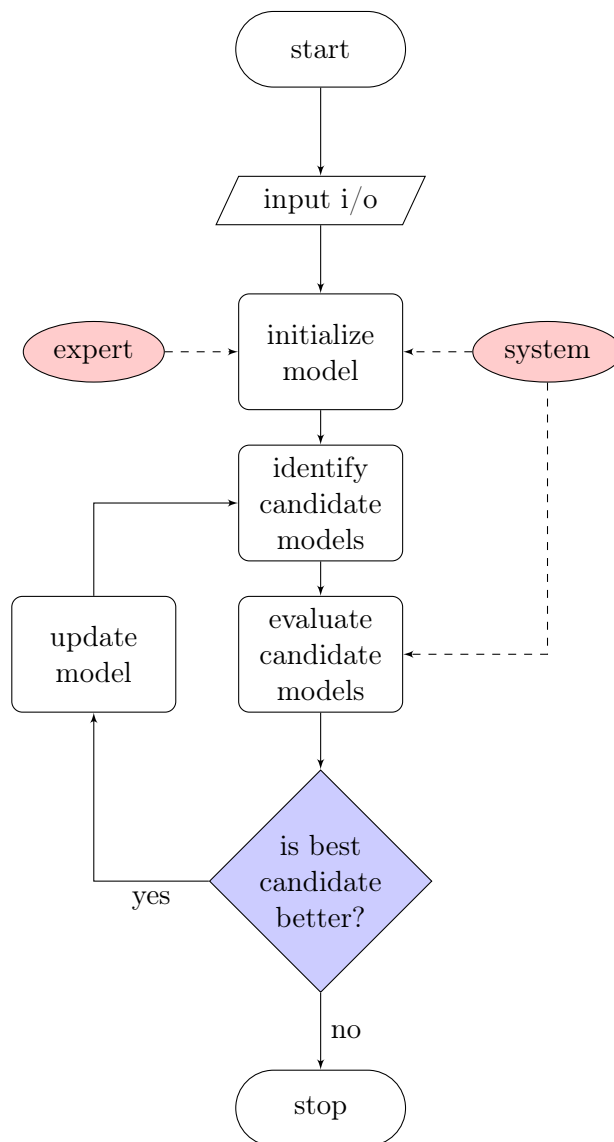This flowchart in Fig. 4 is modified from this latex code.

## Citation

This is how we can cite paper [**?**]

Figure 4: This is my flow chart