

# LaTeX Templates for Optimization Models

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December 1, 2020

## Abstract

Here we show the equation alignment examples from:  
<http://www.orcomplete.com/quick-tip/sertalpbilal/latex-templates-for-optimization-models>

## 1 Array

$$\begin{array}{ll} \min_x & c^T x \\ \text{s.t.} & Ax \leq b \\ & \sum_{i=0}^n x_i = 1 \\ & x_j \geq 0 \quad \forall j \in N \end{array} \quad (1)$$

## 2 Aligned

$$\begin{array}{ll} \min_x & c^T x \\ \text{s.t.} & Ax \leq b_i \\ & \sum_{i=1}^n x_i = 1 \\ & x_j, \forall j \in N. \end{array} \quad (2)$$

## 3 Matrix

$$\begin{array}{ll} \min_x & c^T x \\ \text{s.t.} & Ax \leq b \\ & \sum_{i=1}^n x_i = 1 \\ & x_j \geq 0 \quad \forall j \in N \end{array} \quad (3)$$

## 4 Align

$$\begin{aligned} \min_x \quad & c^T x \\ & Ax \leq b \\ & \sum_{i=1}^n x_i = 1 \\ & x_j \geq 0 \quad \forall j \in N \end{aligned}$$