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## Algorithm 1: Algorithm Example 1

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**Input** : Training set  $X$ , labels  $L$ .

**Output**: The parameters  $\theta$ .

**INIT** initialize variables.

**for**  $t = 1 \rightarrow Epochs$  **do**

    /\* one epoch. \*/

**for**  $i = 1 \rightarrow m$  **do**

        Sample a batch.

        Forward.

        Calculate Loss.

        Backward.

**end**

    /\* update learning rate. \*/

    Updating learning rate.

**end**

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