procedure $DTLearning(exps, attrs, parent\_exps)$
    ▷ $exps$:examples
    ▷ $attrs$:attributes
    ▷ $parent\_exps$:parent examples
    ▷ $MCO(exps)$:Most Common Output in the examples

    if $exps$ is empty **then return** $MCO(parent\_exps)$
    else if all $exps$ have the same label **then return** the label
    else if $attrs$ is empty **then return** $MCO(parent\_exps)$
    else
        $A \leftarrow argmax_{a \in attrs} Importance(a, exps)$
        $tree \leftarrow$ a new decision tree with root test A
        for each value v_k of A **do**
            $exs \leftarrow \{e : e \in exps \land e.A = v_k\}$
            $subtree \leftarrow DTLearning(exs, attrs - A, exps)$
            add a branch to $tree$ with label $(A = v_k)$ and subtree $subtree$
        end for
    end if
    return $tree$
end procedure