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Algorithm 1: Generation of Targeted Adversarial Audio Files with High SNR
Inputs: Original benign example x
          target command command
          save path save
          compare target command command_out
          Targeted attack example x<sub>adv</sub>
Output:
          logits \leftarrow getLogits(x)
          /* Identify adversarial audio commands from a given model */
          AE_Command ← model(logits)
          Threshold = 0.2
          /* Find the subsequence that matches the corresponding target at the current
          threshold */
          indexSets ← getIndexSet(Threshold, logits)
          diterNum = 0
          While Len(indexSets) < Len(command) do
               diterNum++
               indexSet ← getIndexSet(Threshold, logits)
               Threshold /= (1.1 + math.exp(-diterNum))
          /* Find all subsequences under the current threshold */
          indexSets ← getAllSubsequences(Threshold, logits)
          maxIndexSet ← argmax(indexSets)
          cI = 0
          While AE_Command!= command_out do
               for i \leftarrow 1 to logits do
                   if / belongs to maxIndexSet then
                        /*Don't update characters that are already correctly recognized */
                        if logits[maxIndexSet[c]] != command[cl] then
                             loss_adv += CrossEntropyLoss()
                             C|++
                        end
                   else
                        if logits[i] != 0 then
                             loss_adv += CrossEntropyLoss()
                        end
                   end
               end
               loss ori = MSE(x_{adv}, x)
               loss_sum = (1 - \alpha) * loss_adv + \alpha * loss_ori
               update x<sub>adv</sub> by Adam optimization
          return xadv
```