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Input: Polyhedron C
  Output: Set I of all the not-true inequalities of C
           let I \leftarrow \emptyset; \mathcal{M} \leftarrow \{1, \ldots, m\};
          while \mathcal{M} \neq \emptyset,
                let i \leftarrow first element of \mathcal{M}:
 3
               let \mathcal{M} \leftarrow \mathcal{M} \setminus \{i\}:
 5
                solve the following LP problem:
                                          \min B_i \xi
                                            s.t. B_i \xi \leq v_i, \ \forall i \in \mathcal{M}
                and let \xi^* be an optimizer;
               if B_i \xi^* = v_i then I \leftarrow I \cup \{j\};
 6
                for h \in \mathcal{M}.
                     if B_h x^* < v_h then \mathcal{M} \leftarrow \mathcal{M} \setminus \{h\};
 8
                end:
 9
          end.
10
```