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function REPLANNING-AGENT(percept) returns an action
  static: KB, a knowledge base (includes action descriptions)
          p, an annotated plan, initially NoPlan
          q, an annotated plan, initially NoPlan
          G, a goal

  TELL(KB, MAKE-PERCEPT-SENTENCE(percept, t))
  current ← STATE-DESCRIPTION(KB, t)
  if p = NoPlan then
      p ← PLANNER(current, G, KB)
      q ← p
      if p = NoPlan or p is empty then return NoOp
  if PRECONDITIONS(p) not currently true in KB then
      p' ← CHOOSE-BEST-CONTINUATION(current, q)
      p ← APPEND(PLANNER(current, PRECONDITIONS(p'), KB), p')
      q ← p
  action ← FIRST(p)
  p ← REST(p)
  return action
```