Input : P: post, $\mathbb{C}$: comment set, q: the max-length of comment segments.

Output: D: a dialogue.

$D \leftarrow [\,]$;

$T \leftarrow \mathit{segment}_a(\mathbb{C}, q)$;

while $\exists\, p_i \leftarrow \mathit{first}(P)$ **do**

  $D \leftarrow D \oplus [p_i]$;

  if $\exists\, p_{i+1} \in P$ **then** $T \leftarrow T \cup \{p_{i+1}\}$;

  $\hat{t} \leftarrow \mathrm{argmax}_{\forall t \in T}\, \mathit{ranker}(D, t)$;

  if $\hat{t} = p_{i+1}$ **then**

    $P \leftarrow [\mathit{last}(D) \frown \mathit{first}(P)] \oplus P$;

  else

    $D \leftarrow D \oplus [\hat{t}]$;

    $T \leftarrow \mathit{trim}_a(T, \hat{t}, q)$;

  if $\exists\, p_{i+1} \in T$ **then** $T \leftarrow T \setminus \{p_{i+1}\}$;

return D;