```clojure
(defn sample& [dist k]
  ;; Call the continuation with a sampled value
  (k (sample dist)))

(defn observe& [dist value k]
  ;; Compute and record the log weight
  (add-log-weight! (observe dist value))
  ;; Call the continuation with no arguments
  (k))

(defn predict& [name value k]
  ;; Store predict, and call continuation
  (store! name value)
  (k))
```