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Algorithm 2 Resampling wheel
 1: procedure RESAMPLING_WHEEL(\mathcal{X}_{temp}, w_t)
          \mathcal{X}_t \leftarrow \emptyset
 2:
          sample idx \sim M \cdot \mathcal{U}(0,1)
 3:
          \beta \leftarrow 0
 4:
 5:
          mw = max(w_t)
          for m=1 to M do
 6:
               \beta \leftarrow \beta + \mathcal{U}(0,1) \cdot 2 \cdot mw
 7:
               while \beta > w_t[idx] do
 8:
                    \beta \leftarrow beta - w_t[idx]
 9:
                    idx \leftarrow (idx + 1) \mod M
10:
               add \mathcal{X}_{temp}[idx] to \mathcal{X}_t
11:
```