Composition

Goal: compose a B section matching a given A section.

We ran the following algorithm, utilizing the Mahalanobis metric $d(x, y)$ we learned previously:

1. Select a specific tune, and split it into its A and B sections.
2. Randomize a B section (b_{cur}) using the rhythm of the A section.
3. Repeat n times:
   For every $i \in \{1, \ldots, k\}$:
   Generate b_i by randomly making pitch edits to b_{cur}.
   Set $b_{cur} := \arg\min_{b_i} \; d(b_i, A)$.