WikiHow Step Library

- add a few avocado slices
- slice some tomatoes
- brush some butter on bread
- cook the bacon
- add mayo to a slice of bread
- add some lemon juice
- add some tomato slices
- add the bacon
- add the final piece of bread
- add some lettuce
- add some cheese
- ......

$\downarrow$

Shuffle

$\downarrow$

Concatenate w/ SEP token

$\downarrow$

Input Step Library:

add some lettuce <-> add the final piece of bread <-> cook the bacon <-> add some lemon juice <-> cook the bacon <-> add some lemon juice <-> cook the bacon <-> add mayo to a slice of bread <-> add some cheese <-> brush some butter on bread <->

Example Grounded Sequence from a Video

cook the bacon → slice some tomatoes → add mayo to a slice of bread → add some lettuce → add the bacon → add the final piece of bread

$\downarrow$

Concatenate w/ SEP token

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Target Output Sequences:

cook the bacon <-> slice some tomatoes <-> add mayo to a slice of bread <-> add some lettuce <-> add the bacon <-> add the final piece of bread <->

Contrastive Output Sequences:

Re-sample: slice some tomatoes <-> add some lettuce <-> add the bacon <-> add some lemon juice <-> add some cheese <-> cook the bacon <->

Shuffle: add mayo to a slice of bread <-> add some lettuce <-> add your bacon <-> add the final piece of bread <-> cook the bacon <-> add a few avocado slices <-> add some tomato slices <->

Cut-&-Swap: add some lettuce <-> add the bacon <-> add the final piece of bread <-> cook the bacon <-> slice some tomatoes <-> add mayo to a slice of bread <->