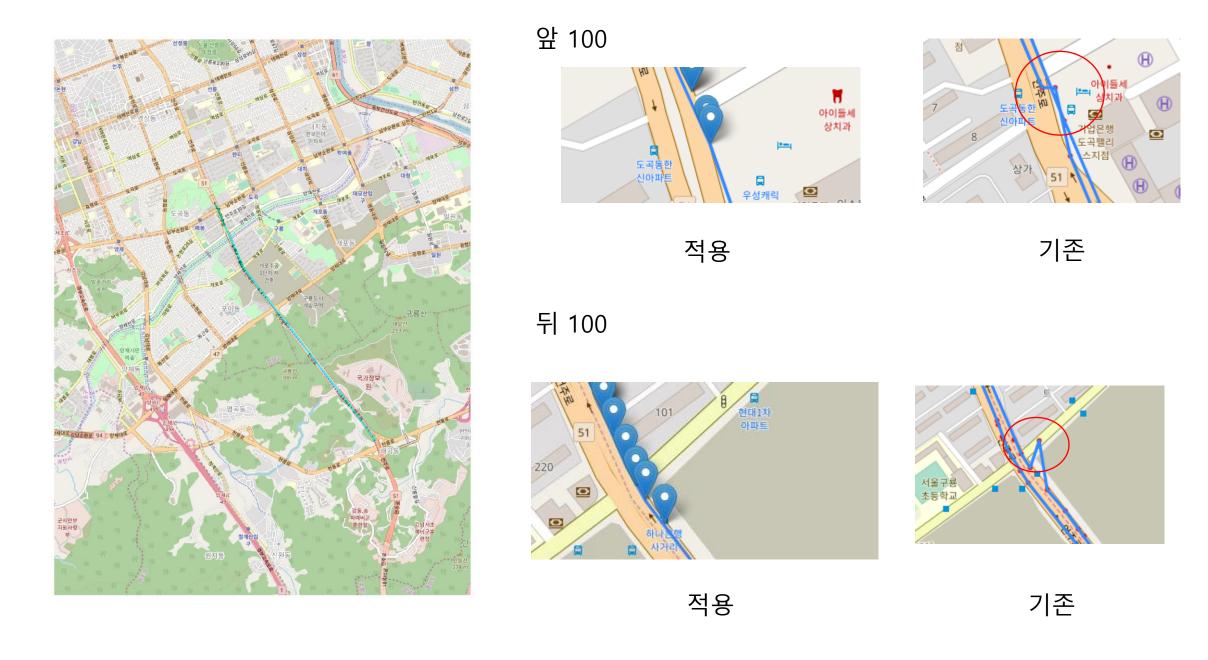
## Result



## 보완점

1. 맵이 정확하지 않음 대상지인 도곡로의 경우 약 100m의 구간의 데이터만 들어가 있음 링크의 시, 종점노드만 연결하다보니 그 사이가 무시되는 경향 add\_edge하면서 양방향 링크로 들어가지 않고, 한 방향으로만 들어감

2. 구간 별 연장이 다름: 맵이 정확하지 않아서 생기는 문제 일반도로의 경우 링크의 연장이 500m이내, 고속도로의 경우 2000m 이상임: 대상지에 따라 파라미터 조정 필요

고속도로의 경우, max\_dist값을 크게 해야 매칭이 되는데 매칭이 정확하지 않은 문제가 있음

## **DistanceMatcher Parameter**

```
:param map_con: Map object to connect to map database
:param obs_noise: Standard deviation of noise
:param obs_noise_ne: Standard deviation of noise for non-emitting states (is set to obs_noise if not given)
:param max_dist_init: Maximum distance from start location (if not given, uses max_dist)
:param max dist: Maximum distance from path (this is a hard cut, min prob norm should be better)
:param min prob norm: Minimum normalized probability of observations (ema)
:param non emitting states: Allow non-emitting states. A non-emitting state is a state that is
   not associated with an observation. Here we assume it can be associated with a location in between
   two observations to allow for pruning. It is advised to set min prob norm and/or max dist to avoid
   visiting all possible nodes in the graph.
:param non emitting length factor: Reduce the probability of a sequence of non-emitting states the longer it
   is. This can be used to prefer shorter paths. This is separate from the transition probabilities because
   transition probabilities are averaged for non-emitting states and thus the length is also averaged out.
:param max lattice width: Restrict the lattice (or possible candidate states per observation) to this value.
   If there are more possible next states, the states with the best likelihood so far are selected.
:param dist noise: Standard deviation of difference between distance between states and distance
   between observatoins. If not given, set to obs noise
:param dist_noise_ne: If not given, set to dist_noise
:param restrained_ne: Avoid non-emitting states if the distance between states and between
   observations is close to each other.
:param avoid_goingback: If true, the probability is lowered for a transition that returns back to a
   previous edges or returns to a position on an edge.
:param args: Arguments for BaseMatcher
:param kwargs: Arguments for BaseMatcher
```