

Sentence Background Colors => BLEU

Ranges

1 - 1
0.7506 - 1
0 - 0.7071
0 - 0
0 - 0

N-gram Colors => Number of Matching Reference Translations

1

PWER errors are marked in red on output sentence displays.

Color by system # [0](#) (default)
Sort by [BLEU score](#) | [corpus order](#) (default)

Sentence 0) BLEU: 0 (0.75/0.5714/0.3333/0)	
Source	How many states border the largest state
Ref 0	count(state(next_to_2(largest(state(all
Output 0	count(state(next_to_2(stateid(loc_2(largest(state(all
N-grams	count(state(next_to_2(stateid(loc_2(largest(state(all
	count(state(next_to_2(largest(state(all
	count(state(largest(state(
	count(state(next_to_2(largest(state(all
Sentence 1) BLEU: 0 (0.3333/0/0/0)	
Source	Where is Baton Rouge
Ref 0	loc_1(cityid('baton rouge', _
Output 0	loc_1(Baton Rouge
N-grams	loc_1(Baton Rouge loc_1(
Sentence 2) BLEU: 0 (0.75/0.3333/0/0)	
Source	How many people are there in Iowa
Ref 0	population_1(stateid('iowa'
Output 0	population_1(cityid(stateid('iowa'
N-grams	population_1(cityid(stateid('iowa'
	population_1(stateid('iowa'
Sentence 3) BLEU: 0 (0.8/0.5/0.3333/0)	
Source	What state is Miami in
Ref 0	state(loc_1(cityid('miami', _
Output 0	state(loc_1(cityid(Miami _

N-grams	state(loc_1(cityid(Miami _ state(loc_1(cityid(_ state(loc_1(state(loc_1(cityid(loc_1(cityid(
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Sentence 4) BLEU: 1 (1/1/1/1)	
Source	How many citizens in Boulder
Ref 0	population_1(cityid('boulder', _
Output 0	population_1(cityid('boulder', _
N-grams	population_1(cityid('boulder', _
	population_1(cityid('boulder', _
	population_1(cityid('boulder', _
	population_1(cityid('boulder', _ population_1(cityid('boulder', _ cityid('boulder', cityid('boulder', _

Sentence 5) BLEU: 0 (0.4/0.25/0/0)	
Source	What rivers run through Austin Texas
Ref 0	river(traverse_2(cityid('austin', 'tx'
Output 0	river(traverse_2(stateid(Austin 'texas'
N-grams	river(traverse_2(stateid(Austin 'texas'
	river(traverse_2(river(traverse_2(

Sentence 6) BLEU: 0 (1/1/1/0)	
Source	What is the area of Idaho
Ref 0	area_1(stateid('idaho'
Output 0	area_1(stateid('idaho'
N-grams	area_1(stateid('idaho'
	area_1(stateid('idaho'
	area_1(stateid(area_1(stateid('idaho'
	stateid('idaho'

Sentence 7) BLEU: 1 (1/1/1/1)	
Source	What are the major cities in Rhode Island
Ref 0	major(city(loc_2(stateid('rhode island'
Output 0	major(city(loc_2(stateid('rhode island'
N-grams	major(city(loc_2(stateid('rhode island'

major(city(loc_2(stateid('rhode island'

major(city(loc_2(stateid('rhode island'

major(city(loc_2(stateid('rhode

major(city(loc_2(stateid(

city(loc_2(stateid('rhode island'

city(loc_2(stateid(

city(loc_2(stateid('rhode

loc_2(stateid('rhode

loc_2(stateid('rhode island'

Sentence 8) BLEU: 0.8091 (0.8571/0.8333/0.8/0.75)

Source	Which states border states through which the Mississippi traverses
Ref 0	state(next_to_2(state(traverse_1(riverid('mississippi'
Output 0	state(next_to_2(state(traverse_1(riverid('mississippi' traverses
N-grams	state(next_to_2(state(traverse_1(riverid('mississippi' traverses state(next_to_2(state(traverse_1(riverid('mississippi' state(next_to_2(state(traverse_1(riverid('mississippi' state(next_to_2(state(traverse_1(riverid(state(next_to_2(state(traverse_1(next_to_2(state(traverse_1(riverid('mississippi' next_to_2(state(traverse_1(next_to_2(state(traverse_1(riverid(state(traverse_1(riverid(state(traverse_1(riverid('mississippi'

Sentence 9) BLEU: 1 (1/1/1/1)

Source	What are the populations of the major cities of Texas
Ref 0	population_1(major(city(loc_2(stateid('texas'
Output 0	population_1(major(city(loc_2(stateid('texas'
N-grams	population_1(major(city(loc_2(stateid('texas' population_1(major(city(loc_2(stateid('texas' population_1(major(city(loc_2(stateid('texas' population_1(major(city(loc_2(stateid(population_1(major(city(loc_2(major(city(loc_2(stateid('texas' major(city(loc_2(major(city(loc_2(stateid(city(loc_2(stateid(city(loc_2(stateid('texas'

Sentence 10) BLEU: 0 (0.5455/0.2/0.1111/0)

Source	How many rivers do not traverse the state with the capital Albany
Ref 0	count(exclude(river(all , traverse_2(state(loc_1(capital(cityid('albany', _

Output 0	count(river(do stateid(, traverse loc_2(state(loc_1(capital(Albany	
	count(river(do stateid(, traverse loc_2(state(loc_1(capital(Albany	
N-grams	count(river(, state(loc_1(capital(
	state(loc_1(
	state(loc_1(capital(
	loc_1(capital(

Sentence 11) BLEU: 1 (1/1/1/1)		
Source	What is the highest point in Ohio	
Ref 0	highest(place(loc_2(stateid('ohio'	
Output 0	highest(place(loc_2(stateid('ohio'	
N-grams	highest(place(loc_2(stateid('ohio'	
	highest(place(loc_2(stateid('ohio'	
	highest(place(loc_2(stateid(
	highest(place(loc_2(stateid('ohio'	
	highest(place(loc_2(stateid(
	place(loc_2(
N-grams	place(loc_2(stateid(
	place(loc_2(stateid('ohio'	
	loc_2(stateid('ohio'	

Sentence 12) BLEU: 1 (1/1/1/1)		
Source	How many rivers run through the states bordering Colorado	
Ref 0	count(river(traverse_2(state(next_to_2(stateid('colorado'	
Output 0	count(river(traverse_2(state(next_to_2(stateid('colorado'	
N-grams	count(river(traverse_2(state(next_to_2(stateid('colorado'	
	count(river(traverse_2(state(next_to_2(stateid('colorado'	
	count(river(traverse_2(state(next_to_2(stateid(
	count(river(traverse_2(state(next_to_2(stateid('colorado'	
	count(river(traverse_2(state(next_to_2(stateid('colorado'	
	river(traverse_2(state(next_to_2(stateid(
	river(traverse_2(state(
	river(traverse_2(state(next_to_2(
	traverse_2(state(next_to_2(
	traverse_2(state(next_to_2(stateid(
N-grams	state(next_to_2(stateid('colorado'	

Sentence 13) BLEU: 0 (0.6/0.25/0/0)		
Source	How many people stay in Utah	
Ref 0	population_1(stateid('utah'	
Output 0	population_1(cityid(stay stateid('utah'	
N-grams	population_1(cityid(stay stateid('utah'	

population_1(stateid('utah'
	stateid('utah'

Sentence 14) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)

Source	What state has the most cities
Ref 0	most(state(loc_1(city(all
Output 0	What most(state(loc_1(city(all
N-grams	What most(state(loc_1(city(all most(state(loc_1(city(all most(state(loc_1(city(most(state(loc_1(city(all most(state(loc_1(city(state(loc_1(state(loc_1(city(state(loc_1(city(all loc_1(city(all

Sentence 15) BLEU: 1 (1/1/1/1)

Source	What is the largest city in Alabama
Ref 0	largest(city(loc_2(stateid('alabama'
Output 0	largest(city(loc_2(stateid('alabama'
N-grams	largest(city(loc_2(stateid('alabama' largest(city(loc_2(stateid('alabama' largest(city(loc_2(stateid(largest(city(loc_2(stateid('alabama' largest(city(loc_2(stateid(city(loc_2(city(loc_2(stateid(city(loc_2(stateid('alabama' loc_2(stateid('alabama'

Sentence 16) BLEU: 0.4889 (0.8571/0.6667/0.4/0.25)

Source	What is the capital of the state with the largest population density
Ref 0	capital(loc_2(largest_one(density_1(state(all
Output 0	capital(loc_2(stateid (largest_one(density_1(state(all
N-grams	capital(loc_2(stateid(largest_one(density_1(state(all capital(loc_2(largest_one(density_1(state(all capital(loc_2(largest_one(density_1(state(all largest_one(density_1(state(largest_one(density_1(state(all density_1(state(density_1(state(all

Sentence 17) BLEU: 0.6435 (0.8571/0.6667/0.6/0.5)

Source	What is the height of the highest point in the USA
Ref 0	elevation_1(highest(place(loc_2(countryid('usa'
Output 0	elevation_1(stateid (highest(place(loc_2(countryid('usa'
N-grams	elevation_1(stateid(highest(place(loc_2(countryid('usa' elevation_1(highest(place(loc_2(countryid('usa' highest(place(loc_2(countryid('usa' highest(place(loc_2(countryid('usa' highest(place(loc_2(countryid('usa' place(loc_2(countryid('usa' place(loc_2(countryid('usa' place(loc_2(countryid('usa' loc_2(countryid('usa'

Sentence 18) BLEU: 1 (1/1/1/1)

Source	How long is the longest river in California
Ref 0	len(longest(river(loc_2(stateid('california'
Output 0	len(longest(river(loc_2(stateid('california'
N-grams	len(longest(river(loc_2(stateid('california' len(longest(river(loc_2(stateid('california' len(longest(river(loc_2(stateid('california' len(longest(river(loc_2(stateid('california' len(longest(river(loc_2(stateid('california' longest(river(loc_2(stateid('california' longest(river(loc_2(stateid('california' longest(river(loc_2(stateid('california' river(loc_2(stateid('california' river(loc_2(stateid('california'

Sentence 19) BLEU: 0.6034 (0.9091/0.7/0.5556/0.375)

Source	Which states have points that are higher than the highest point in Texas
Ref 0	state(loc_1(place(higher_2(highest(place(loc_2(stateid('texas'
Output 0	state(loc_1(place(that loc_2(higher_2(highest(place(loc_2 (stateid('texas'
N-grams	state(loc_1(place(that loc_2(higher_2(highest(place(loc_2(stateid('texas' state(loc_1(place(loc_2(higher_2(highest(place(loc_2(stateid('texas' state(loc_1(higher_2(highest(place(loc_2(stateid('texas' state(loc_1(place(higher_2(highest(place(loc_2(stateid('texas' loc_1(place(higher_2(highest(place(loc_2(stateid('texas' highest(place(loc_2(stateid('texas' highest(place(loc_2(stateid('texas' highest(place(loc_2(stateid('texas' place(loc_2(stateid('texas' place(loc_2(stateid('texas'

Sentence 20) BLEU: 0.4064 (0.75/0.5455/0.3/0.2222)	
Source	What is the longest river that passes the states that border the state that borders the most states
Ref 0	longest(river(traverse_2(state(next_to_2(most(state(next_to_2(state(all
Output 0	longest(river(passes state(next_to_2(stateid(loc_2(most(state(next_to_2(state(all
N-grams	longest(river(passes state(next_to_2(stateid(loc_2(most(state(next_to_2(state(all
	longest(river(state(next_to_2(most(state(next_to_2(state(all
	longest(river(state(next_to_2(most(state(next_to_2(state(
	most(state(next_to_2(state(all
	most(state(next_to_2(state(state(next_to_2(state(all

Sentence 21) BLEU: 0.8932 (0.9091/0.9/0.8889/0.875)	
Source	What are the major cities in the states through which the major river in Virginia runs
Ref 0	major(city(loc_2(state(traverse_1(major(river(loc_2(stateid('virginia'
Output 0	major(city(loc_2(state(traverse_1(major(river(loc_2(stateid('virginia' runs
N-grams	major(city(loc_2(state(traverse_1(major(river(loc_2(stateid('virginia' runs
	major(city(loc_2(state(traverse_1(major(river(loc_2(stateid('virginia'
	major(city(loc_2(state(traverse_1(major(river(loc_2(stateid('virginia'
	major(city(loc_2(state(traverse_1(major(river(loc_2(stateid(
	major(city(loc_2(state(traverse_1(major(river(loc_2(stateid('virginia'

Sentence 22) BLEU: 0 (0.6/0.25/0/0)	
Source	In which state is Rochester
Ref 0	state(loc_1(cityid('rochester', _
Output 0	state(loc_1(In is 'rochester',
N-grams	state(loc_1(In is 'rochester',
	state(loc_1('rochester',

Sentence 23) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)	
Source	Name the major lakes in Michigan

Ref 0	major(lake(loc_2(stateid('michigan'
Output 0	Name major(lake(loc_2(stateid('michigan'
N-grams	Name major(lake(loc_2(stateid('michigan' major(lake(loc_2(stateid('michigan' major(lake(loc_2(stateid(major(lake(loc_2(stateid('michigan' major(lake(loc_2(stateid(lake(loc_2(lake(loc_2(stateid(lake(loc_2(stateid('michigan' loc_2(stateid('michigan'

Sentence 24) BLEU: 1 (1/1/1/1)	
Source	What rivers are in Texas
Ref 0	river(loc_2(stateid('texas'
Output 0	river(loc_2(stateid('texas'
N-grams	river(loc_2(stateid('texas' river(loc_2(stateid('texas' river(loc_2(stateid('texas' river(loc_2(stateid(river(loc_2(stateid('texas' loc_2(stateid(loc_2(stateid('texas'

Sentence 25) BLEU: 1 (1/1/1/1)	
Source	What is the largest state that borders California
Ref 0	largest(state(next_to_2(stateid('california'
Output 0	largest(state(next_to_2(stateid('california'
N-grams	largest(state(next_to_2(stateid('california' largest(state(next_to_2(stateid('california' largest(state(next_to_2(stateid(largest(state(next_to_2(stateid('california' largest(state(next_to_2(stateid(state(next_to_2(state(next_to_2(stateid(state(next_to_2(stateid('california' next_to_2(stateid('california'

Sentence 26) BLEU: 0 (0.6667/0/0/0)	
Source	How many people live in California
Ref 0	population_1(stateid('california'
Output 0	population_1(cityid ('california'

N-grams	population_1(cityid('california' population_1('california'
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Sentence 27) BLEU: 0.4111 (0.75/0.5714/0.3333/0.2)	
Source	What are the cities in states through which the Mississippi runs
Ref 0	city(loc_2(state(traverse_1(riverid('mississippi'
Output 0	city(loc_2(stateid(runs state(traverse_1(riverid('mississippi'
N-grams	city(loc_2(stateid(runs state(traverse_1(riverid('mississippi' city(loc_2(state(traverse_1(riverid('mississippi' city(loc_2(state(traverse_1(riverid('mississippi' state(traverse_1(riverid(state(traverse_1(riverid('mississippi' traverse_1(riverid(traverse_1(riverid('mississippi'

Sentence 28) BLEU: 0 (0.6667/0.4/0.25/0)	
Source	What is the population of the largest state
Ref 0	population_1(largest(state(all
Output 0	population_1(stateid(loc_2(largest(state(all
N-grams	population_1(stateid(loc_2(largest(state(all population_1(largest(state(all largest(state(largest(state(all state(all

Sentence 29) BLEU: 1 (1/1/1/1)	
Source	What is the population of New York
Ref 0	population_1(stateid('new york'
Output 0	population_1(stateid('new york'
N-grams	population_1(stateid('new york' population_1(stateid('new york' population_1(stateid('new york' population_1(stateid('new population_1(stateid('new york' stateid('new stateid('new york'

Sentence 30) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)	
Source	Where is the highest mountain of the United States
Ref 0	highest(mountain(loc_2(countryid('usa'
Output 0	loc_1(highest(mountain(loc_2(countryid('usa'

N-grams	loc_1(highest(mountain(loc_2(countryid('usa' highest(mountain(loc_2(countryid('usa' highest(mountain(loc_2(countryid(highest(mountain(loc_2(countryid('usa' highest(mountain(loc_2(countryid(mountain(loc_2(mountain(loc_2(countryid(mountain(loc_2(countryid('usa' loc_2(countryid('usa'
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Sentence 31) BLEU: 0 (0.5455/0.3/0.1111/0)	
Source	Of the states washed by the Mississippi river which has the lowest point
Ref 0	state(loc_1(lowest(place(loc_2(state(traverse_1(river(riverid('mississippi'
Output 0	Of loc_2(state(washed by lowest(place(loc_2(Mississippi river(all
N-grams	Of loc_2(state(washed by lowest(place(loc_2(Mississippi river(all loc_2(state(lowest(place(river(loc_2(state(lowest(place(lowest(place(loc_2(place(loc_2(

Sentence 32) BLEU: 0 (0.5/0/0/0)	
Source	Where is Indianapolis
Ref 0	loc_1(cityid('indianapolis', _
Output 0	loc_1(Indianapolis
N-grams	loc_1(Indianapolis loc_1(

Sentence 33) BLEU: 1 (1/1/1/1)	
Source	What is the largest city in Texas
Ref 0	largest(city(loc_2(stateid('texas'
Output 0	largest(city(loc_2(stateid('texas'
N-grams	largest(city(loc_2(stateid('texas' largest(city(loc_2(stateid('texas' largest(city(loc_2(stateid(largest(city(loc_2(stateid('texas' largest(city(loc_2(stateid(city(loc_2(city(loc_2(stateid(city(loc_2(stateid('texas' loc_2(stateid('texas'

Sentence 34) BLEU: 0 (0.8/0.5/0.3333/0)	

Source	What is the river that cross over Ohio
Ref 0	river(traverse_2(stateid('ohio'
Output 0	river(traverse_2(stateid(over 'ohio'
N-grams	river(traverse_2(stateid(over 'ohio' river(traverse_2(stateid('ohio' river(traverse_2(river(traverse_2(stateid(traverse_2(stateid(

Sentence 35) BLEU: 0.4172 (0.7273/0.5/0.3333/0.25)	
Source	What state contains the highest point of those the Colorado river traverses
Ref 0	state(loc_1(highest(place(loc_2(state(traverse_1(river(riverid('colorado'
Output 0	state(loc_1(highest(place(loc_2(stateid(those riverid('colorado' river(traverse_2(
N-grams	state(loc_1(highest(place(loc_2(stateid(those riverid('colorado' river(traverse_2(state(loc_1(highest(place(loc_2(riverid('colorado' river(state(loc_1(highest(place(riverid('colorado' state(loc_1(highest(place(loc_2(state(loc_1(highest(place(loc_1(highest(loc_1(highest(place(loc_1(highest(place(loc_2(highest(place(loc_2(

Sentence 36) BLEU: 0.5373 (0.8333/0.6/0.5/0.3333)	
Source	What are the populations of states which border Texas
Ref 0	population_1(state(next_to_2(stateid('texas'
Output 0	population_1(loc_2(state(next_to_2(stateid('texas'
N-grams	population_1(loc_2(state(next_to_2(stateid('texas' population_1(state(next_to_2(stateid('texas' state(next_to_2(stateid('texas' state(next_to_2(stateid(state(next_to_2(stateid('texas' next_to_2(stateid(next_to_2(stateid('texas'

Sentence 37) BLEU: 0 (0.4286/0/0/0)	
Source	How big is the city of New York
Ref 0	size(city(cityid('new york', _
Output 0	size(stateid(city(loc_2(stateid('new york'
N-grams	size(stateid(city(loc_2(stateid('new york' size(city('new

Sentence 38) BLEU: 0 (0.75/0.3333/0/0)	
Source	How many people live in New Mexico
Ref 0	population_1(stateid('new mexico'
Output 0	population_1(cityid('new mexico'
N-grams	population_1(cityid('new mexico'
	population_1('new mexico'

Sentence 39) BLEU: 1 (1/1/1/1)	
Source	Which rivers are in Alaska
Ref 0	river(loc_2(stateid('alaska'
Output 0	river(loc_2(stateid('alaska'
N-grams	river(loc_2(stateid('alaska'
	river(loc_2(stateid('alaska'
	river(loc_2(stateid('alaska'
	river(loc_2(stateid('alaska'

Sentence 40) BLEU: 1 (1/1/1/1)	
Source	How many rivers are there in Idaho
Ref 0	count(river(loc_2(stateid('idaho'
Output 0	count(river(loc_2(stateid('idaho'
N-grams	count(river(loc_2(stateid('idaho'
	count(river(loc_2(stateid('idaho'
	count(river(loc_2(stateid('idaho'
	count(river(loc_2(stateid('idaho'

Sentence 41) BLEU: 0 (0.5/0.2/0/0)	
Source	How many rivers are called Colorado
Ref 0	count(river(riverid('colorado'
Output 0	count(river(loc_2(stateid(called 'colorado'
N-grams	count(river(loc_2(stateid(called 'colorado'
	count(river('colorado'

Sentence 42) BLEU: 0 (0.7143/0.5/0.2/0)

Source	What is the longest river in the United States
Ref 0	longest(river(loc_2(countryid('usa'
Output 0	longest(river(loc_2(stateid(the countryid('usa'
N-grams	longest(river(loc_2(stateid(the countryid('usa'
	longest(river(loc_2(countryid('usa'
	longest(river(countryid('usa'
	longest(river(loc_2(river(loc_2(

Sentence 43) BLEU: 0 (0.625/0.4286/0.1667/0)

Source	What is the smallest state that the Mississippi river runs through
Ref 0	smallest(state(traverse_1(river(riverid('mississippi'
Output 0	smallest(state(all that river(riverid('mississippi' through
N-grams	smallest(state(all that river(riverid('mississippi' through
	smallest(state(river(riverid('mississippi'
	smallest(state(river(riverid(
	river(riverid('mississippi'

Sentence 44) BLEU: 1 (1/1/1/1)

Source	Which states border Arizona
Ref 0	state(next_to_2(stateid('arizona'
Output 0	state(next_to_2(stateid('arizona'
N-grams	state(next_to_2(stateid('arizona'
	state(next_to_2(stateid('arizona'
	state(next_to_2(stateid('arizona'
	state(next_to_2(stateid(
	state(next_to_2(stateid('arizona'

Sentence 45) BLEU: 0 (0.4/0/0/0)

Source	Which states do Colorado river flow through
Ref 0	state(traverse_1(river(riverid('colorado'
Output 0	exclude(state(Colorado river(traverse_2(
N-grams	exclude(state(Colorado river(traverse_2(
	state(river(

Sentence 46) BLEU: 0 (0.6667/0.5/0/0)

Source	What are the states
Ref 0	state(all
Output 0	loc_2(state(all
N-grams	loc_2(state(all state(all state(all

Sentence 47) BLEU: 0.6148 (0.7143/0.6667/0.6/0.5)	
Source	Which rivers do not run through USA
Ref 0	exclude(river(all , traverse_2(countryid('usa'
Output 0	exclude(river(all , traverse_2(stateid(USA
N-grams	exclude(river(all , traverse_2(stateid(USA exclude(river(all , traverse_2(exclude(river(all , exclude(river(all , traverse_2(exclude(river(all , river(all river(all , river(all , traverse_2(all , traverse_2(

Sentence 48) BLEU: 0.4463 (0.5556/0.5/0.4286/0.3333)	
Source	Show me all the major lakes in the US
Ref 0	major(lake(loc_2(countryid('usa'
Output 0	Show stateid(all the major(lake(loc_2(countryid('usa'
N-grams	Show stateid(all the major(lake(loc_2(countryid('usa' major(lake(loc_2(countryid('usa' major(lake(loc_2(countryid(major(lake(loc_2(countryid('usa' major(lake(loc_2(countryid(lake(loc_2(lake(loc_2(countryid(lake(loc_2(countryid('usa' loc_2(countryid('usa'

Sentence 49) BLEU: 0 (0.5/0.4/0.25/0)	
Source	Give me the largest state
Ref 0	largest(state(all
Output 0	Give stateid(loc_2(largest(state(all
N-grams	Give stateid(loc_2(largest(state(all largest(state(all

	largest(state(largest(state(all state(all
--	--

Sentence 50) BLEU: 0 (0.6/0.5/0.3333/0)	
Source	What is the highest point in the USA
Ref 0	highest(place(loc_2(countryid('usa'
Output 0	highest(place(loc_2(stateid(USA
N-grams	highest(place(loc_2(stateid(USA highest(place(loc_2(highest(place(highest(place(loc_2(place(loc_2(

Sentence 51) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)	
Source	What is the biggest state in the USA
Ref 0	largest(state(loc_2(countryid('usa'
Output 0	stateid(largest(state(loc_2(countryid('usa'
N-grams	stateid(largest(state(loc_2(countryid('usa' largest(state(loc_2(countryid('usa' largest(state(loc_2(countryid(largest(state(loc_2(countryid('usa' largest(state(loc_2(countryid(state(loc_2(state(loc_2(countryid(state(loc_2(countryid('usa' loc_2(countryid('usa'

Sentence 52) BLEU: 1 (1/1/1/1)	
Source	Which city in California has the largest population
Ref 0	largest_one(population_1(city(loc_2(stateid('california'
Output 0	largest_one(population_1(city(loc_2(stateid('california'
N-grams	largest_one(population_1(city(loc_2(stateid('california' largest_one(population_1(city(loc_2(stateid('california' largest_one(population_1(city(loc_2(stateid('california' largest_one(population_1(city(loc_2(stateid(largest_one(population_1(city(loc_2(population_1(city(loc_2(stateid('california' population_1(city(loc_2(population_1(city(loc_2(stateid(city(loc_2(stateid(city(loc_2(stateid('california'

Sentence 53) BLEU: 0.6687 (1/0.6667/0.6/0.5)	
Source	What is the population of the major cities in Wisconsin
Ref 0	population_1(major(city(loc_2(stateid('wisconsin'
Output 0	population_1(stateid(major(city(loc_2(stateid('wisconsin'
N-grams	population_1(stateid(major(city(loc_2(stateid('wisconsin'
	population_1(stateid(major(city(loc_2(stateid('wisconsin'
	major(city(loc_2(stateid('wisconsin'
	major(city(loc_2(
	major(city(loc_2(stateid(
	city(loc_2(
	city(loc_2(stateid(
	city(loc_2(stateid('wisconsin'
	loc_2(stateid('wisconsin'

Sentence 54) BLEU: 0 (0.6667/0.5/0/0)	
Source	List the states
Ref 0	state(all
Output 0	List state(all
N-grams	List state(all
	state(all
	state(all

Sentence 55) BLEU: 0 (1/1/1/0)	
Source	What is the largest capital
Ref 0	largest(capital(all
Output 0	largest(capital(all
N-grams	largest(capital(all
	largest(capital(all
	largest(capital(
	largest(capital(all
	capital(all

Sentence 56) BLEU: 0 (0.3333/0/0/0)	
Source	How many people live in Washington
Ref 0	population_1(stateid('washington'
Output 0	population_1(cityid('washington',
N-grams	population_1(cityid('washington',
	population_1(

Sentence 57) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)	
Source	Which is the longest river in USA

Ref 0	longest(river(loc_2(countryid('usa'
Output 0	Which longest(river(loc_2(countryid('usa'
N-grams	Which longest(river(loc_2(countryid('usa' longest(river(loc_2(countryid('usa' longest(river(loc_2(countryid(longest(river(loc_2(countryid('usa' longest(river(loc_2(countryid(river(loc_2(river(loc_2(countryid(river(loc_2(countryid('usa' loc_2(countryid('usa'

Sentence 58) BLEU: 1 (1/1/1/1)	
Source	What is the state with the largest area
Ref 0	largest_one(area_1(state(all
Output 0	largest_one(area_1(state(all
N-grams	largest_one(area_1(state(all largest_one(area_1(state(all largest_one(area_1(state(all largest_one(area_1(state(largest_one(area_1(state(all area_1(state(area_1(state(all

Sentence 59) BLEU: 0 (0.6667/0.4/0.25/0)	
Source	What is the area of the smallest state
Ref 0	area_1(smallest(state(all
Output 0	area_1(stateid(loc_2(smallest(state(all
N-grams	area_1(stateid(loc_2(smallest(state(all area_1(smallest(state(all smallest(state(smallest(state(all state(all

Sentence 60) BLEU: 0.8034 (1/0.875/0.7143/0.6667)	
Source	How many major cities are in states bordering Nebraska
Ref 0	count(major(city(loc_2(state(next_to_2(stateid('nebraska'
Output 0	count(major(city(loc_2(state(next_to_2(stateid(stateid('nebraska'
N-grams	count(major(city(loc_2(state(next_to_2(stateid(stateid('nebraska' count(major(city(loc_2(state(next_to_2(stateid(stateid('nebraska' count(major(city(loc_2(state(next_to_2('nebraska'

count(major(city(loc_2(state(next_to_2(stateid(

count(major(city(loc_2(state(next_to_2(stateid(

major(city(loc_2(state(next_to_2(

major(city(loc_2(

major(city(loc_2(state(

city(loc_2(state(

city(loc_2(state(next_to_2(

loc_2(state(next_to_2(stateid(

Sentence 61) BLEU: 0 (1/0.6667/0/0)

Source	How long is the Mississippi
Ref 0	len(riverid('mississippi'
Output 0	len(riverid(riverid ('mississippi'
N-grams	len(riverid(riverid('mississippi'
	len(riverid(riverid('mississippi'
	len(riverid('mississippi'

Sentence 62) BLEU: 0 (1/0.6667/0/0)

Source	How big is Texas
Ref 0	size(stateid('texas'
Output 0	size(stateid(stateid ('texas'
N-grams	size(stateid(stateid('texas'
	size(stateid(stateid('texas'
	size(stateid('texas'

Sentence 63) BLEU: 0.4111 (0.5714/0.5/0.4/0.25)

Source	How many big cities are in Pennsylvania
Ref 0	count(major(city(loc_2(stateid('pennsylvania'
Output 0	population_1(cityid(big city(loc_2(stateid('pennsylvania'
N-grams	population_1(cityid(big city(loc_2(stateid('pennsylvania'
	city(loc_2(stateid('pennsylvania'
	city(loc_2(stateid('pennsylvania'
	city(loc_2(stateid(
	city(loc_2(stateid('pennsylvania'
	loc_2(stateid(
	loc_2(stateid('pennsylvania'

Sentence 64) BLEU: 0.5081 (0.6667/0.6/0.5/0.3333)

Source	Name all the rivers in Colorado
Ref 0	river(loc_2(stateid('colorado'
Output 0	Name all river(loc_2(stateid('colorado'

N-grams	Name all river(loc_2(stateid('colorado' river(loc_2(stateid('colorado' river(loc_2(stateid('colorado' river(loc_2(stateid(loc_2(stateid(loc_2(stateid('colorado'
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Sentence 65) BLEU: 0 (0.5714/0.3333/0/0)	
Source	What is the capital of the state with the most inhabitants
Ref 0	capital(loc_2(largest_one(population_1(state(all
Output 0	capital(loc_2(stateid(most(state(all inhabitants
N-grams	capital(loc_2(stateid(most(state(all inhabitants capital(loc_2(state(all capital(loc_2(state(all

Sentence 66) BLEU: 0 (0.75/0.3333/0/0)	
Source	What is the population of San Antonio
Ref 0	population_1(cityid('san antonio', _
Output 0	population_1(stateid('san antonio',
N-grams	population_1(stateid('san antonio', population_1('san antonio', population_1('san antonio',

Sentence 67) BLEU: 0 (0.5/0/0/0)	
Source	What states does the Delaware river run through
Ref 0	state(traverse_1(river(riverid('delaware'
Output 0	river(traverse_2(state(loc_2(stateid('delaware'
N-grams	river(traverse_2(state(loc_2(stateid('delaware' river(state('delaware'

Sentence 68) BLEU: 0 (1/1/1/0)	
Source	What is the largest state
Ref 0	largest(state(all
Output 0	largest(state(all
N-grams	largest(state(all largest(state(all largest(state(all largest(state(all state(all

Sentence 69) BLEU: 0 (1/0.6667/0/0)

Source	How large is Alaska
Ref 0	size(stateid('alaska'
Output 0	size(stateid(stateid ('alaska'
N-grams	size(stateid(stateid('alaska' size(stateid(stateid('alaska' size(stateid('alaska'

Sentence 70) BLEU: 1 (1/1/1/1)

Source	Which state has the smallest population density
Ref 0	smallest_one(density_1(state(all
Output 0	smallest_one(density_1(state(all
N-grams	smallest_one(density_1(state(all smallest_one(density_1(state(all smallest_one(density_1(state(all smallest_one(density_1(state(smallest_one(density_1(state(all density_1(state(density_1(state(all

Sentence 71) BLEU: 1 (1/1/1/1)

Source	What is the largest city of Kansas
Ref 0	largest(city(loc_2(stateid('kansas'
Output 0	largest(city(loc_2(stateid('kansas'
N-grams	largest(city(loc_2(stateid('kansas' largest(city(loc_2(stateid('kansas' largest(city(loc_2(stateid(largest(city(loc_2(stateid('kansas' largest(city(loc_2(stateid(city(loc_2(city(loc_2(stateid(city(loc_2(stateid('kansas' loc_2(stateid('kansas'

Sentence 72) BLEU: 0.5814 (0.8/0.6667/0.5/0.4286)

Source	What states border the state with the most major cities
Ref 0	state(next_to_2(most(state(loc_1(major(city(all
Output 0	state(next_to_2(stateid (the most(state(loc_1(major(city(all
N-grams	state(next_to_2(stateid(the most(state(loc_1(major(city(all state(next_to_2(most(state(loc_1(major(city(all state(next_to_2(most(state(loc_1(major(city(all

	<div>most(state(loc_1(major(city(</div> <div>most(state(loc_1(major(</div> <div>state(loc_1(major(city(all</div> <div>state(loc_1(major(</div> <div>state(loc_1(major(city(</div> <div>loc_1(major(city(</div> <div>loc_1(major(city(all</div>
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Sentence 73) BLEU: 1 (1/1/1/1)	
Source	What is the capital of Utah
Ref 0	capital(loc_2(stateid('utah'
Output 0	capital(loc_2(stateid('utah'
N-grams	<div>capital(loc_2(stateid('utah'</div> <div>capital(loc_2(stateid('utah'</div> <div>capital(loc_2(stateid('utah'</div> <div>capital(loc_2(stateid(</div> <div>capital(loc_2(stateid('utah'</div> <div>loc_2(stateid(</div> <div>loc_2(stateid('utah'</div>

Sentence 74) BLEU: 0.5969 (0.8889/0.75/0.5714/0.3333)	
Source	How high is the highest point in the largest state
Ref 0	elevation_1(highest(place(loc_2(largest(state(all
Output 0	elevation_1(highest(place(loc_2(stateid(loc_2(largest(state(all
N-grams	<div>elevation_1(highest(place(loc_2(stateid(loc_2(largest(state(all</div> <div>elevation_1(highest(place(loc_2(loc_2(largest(state(all</div> <div>elevation_1(highest(place(loc_2(loc_2(largest(state(</div> <div>elevation_1(highest(place(loc_2(largest(state(all</div> <div>elevation_1(highest(place(loc_2(largest(state(all</div> <div>highest(place(largest(state(</div> <div>highest(place(loc_2(largest(state(all</div>

Sentence 75) BLEU: 0 (0.6667/0.4/0/0)	
Source	What river is the longest one in the United States
Ref 0	longest(river(loc_2(countryid('usa'
Output 0	longest(river(all one countryid('usa'
N-grams	<div>longest(river(all one countryid('usa'</div> <div>longest(river(countryid('usa'</div> <div>longest(river(countryid('usa'</div>

Sentence 76) BLEU: 1 (1/1/1/1)	
Source	What is the area of New Mexico

Ref 0	area_1(stateid('new mexico'
Output 0	area_1(stateid('new mexico'
N-grams	area_1(stateid('new mexico' area_1(stateid('new mexico' area_1(stateid('new mexico' area_1(stateid('new area_1(stateid('new mexico' stateid('new stateid('new mexico'

Sentence 77) BLEU: 1 (1/1/1/1)	
Source	What is the capital of Hawaii
Ref 0	capital(loc_2(stateid('hawaii'
Output 0	capital(loc_2(stateid('hawaii'
N-grams	capital(loc_2(stateid('hawaii' capital(loc_2(stateid('hawaii' capital(loc_2(stateid('hawaii' capital(loc_2(stateid(capital(loc_2(stateid('hawaii' loc_2(stateid(loc_2(stateid('hawaii'

Sentence 78) BLEU: 0 (1/0.5/0.3333/0)	
Source	How long is the Missouri river
Ref 0	len(river(riverid('missouri'
Output 0	len(riverid(river(riverid('missouri'
N-grams	len(riverid(river(riverid('missouri' len(riverid(river(riverid('missouri' river(riverid('missouri' river(riverid('missouri'

Sentence 79) BLEU: 0.5373 (0.8333/0.6/0.5/0.3333)	
Source	What states have cities named Dallas
Ref 0	state(loc_1(city(cityid('dallas', _
Output 0	state(loc_1(city(cityid(stateid('dallas',
N-grams	state(loc_1(city(cityid(stateid('dallas', state(loc_1(city(cityid('dallas', state(loc_1(city(cityid(state(loc_1(city(state(loc_1(city(cityid(loc_1(city(loc_1(city(cityid(loc_1(city(cityid(

Sentence 80) BLEU: 0.4889 (0.8571/0.6667/0.4/0.25)	
Source	How many rivers are found in Colorado
Ref 0	count(river(loc_2(stateid('colorado'
Output 0	count(river(loc_2(stateid(found stateid('colorado'
N-grams	count(river(loc_2(stateid(found stateid('colorado'
	count(river(loc_2(stateid(stateid('colorado'
	count(river(loc_2(stateid('colorado'
	count(river(loc_2(
	count(river(loc_2(stateid(river(loc_2(river(loc_2(stateid(

Sentence 81) BLEU: 0.5 (0.875/0.7143/0.5/0.2)	
Source	What is the smallest city in the largest state
Ref 0	smallest(city(loc_2(largest(state(all
Output 0	smallest(city(loc_2(stateid(loc_2(largest(state(all
N-grams	smallest(city(loc_2(loc_2(largest(state(all
	smallest(city(loc_2(loc_2(largest(state(all
	smallest(city(loc_2(largest(state(
	smallest(city(loc_2(loc_2(largest(state(all
	city(loc_2(largest(state(all largest(state(largest(state(largest(state(all

Sentence 82) BLEU: 1 (1/1/1/1)	
Source	What state has the highest population
Ref 0	largest_one(population_1(state(all
Output 0	largest_one(population_1(state(all
N-grams	largest_one(population_1(state(all
	largest_one(population_1(state(all
	largest_one(population_1(state(all
	largest_one(population_1(state(
	largest_one(population_1(state(all population_1(state(population_1(state(all

Sentence 83) BLEU: 0 (0.7778/0.375/0.1429/0)	
Source	What states have a capital that is the highest point in the state
Ref 0	state(loc_1(capital(highest(place(all
Output 0	highest(place(loc_2(state(loc_1(capital(that state(all

N-grams	highest(place(loc_2(state(loc_1(capital(that state(all highest(place(state(loc_1(capital(all highest(place(state(loc_1(state(loc_1(capital(loc_1(capital(
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Sentence 84) BLEU: 1 (1/1/1/1)		
Source	What rivers are in New Mexico	
Ref 0	river(loc_2(stateid('new mexico'	
Output 0	river(loc_2(stateid('new mexico'	
N-grams	river(loc_2(stateid('new mexico'	
	river(loc_2(stateid('new mexico'	
	river(loc_2(stateid('new	
	river(loc_2(stateid('new mexico'	
	river(loc_2(stateid('new	
N-grams	river(loc_2(stateid('new	
	loc_2(stateid(
	loc_2(stateid('new	
	loc_2(stateid('new mexico'	
	stateid('new mexico'	

Sentence 85) BLEU: 0 (0.6/0.5/0.3333/0)		
Source	How many cities are there in the US	
Ref 0	count(city(loc_2(countryid('usa'	
Output 0	count(city(loc_2(stateid(US	
N-grams	count(city(loc_2(stateid(US	
	count(city(loc_2(
	count(city(
	count(city(loc_2(
	city(loc_2(

Sentence 86) BLEU: 0.8091 (0.8571/0.8333/0.8/0.75)		
Source	What is the city in Texas with the largest population	
Ref 0	largest_one(population_1(city(loc_2(stateid('texas'	
Output 0	loc_1(largest_one(population_1(city(loc_2(stateid('texas'	
N-grams	loc_1(largest_one(population_1(city(loc_2(stateid('texas'	
	largest_one(population_1(city(loc_2(stateid('texas'	
	largest_one(population_1(city(loc_2(stateid('texas'	
	largest_one(population_1(city(loc_2(stateid(
	largest_one(population_1(city(loc_2(
	population_1(city(loc_2(stateid('texas'	
	population_1(city(loc_2(
	population_1(city(loc_2(stateid(
	city(loc_2(stateid(

city(loc_2(stateid('texas'

Sentence 87) BLEU: 0.7506 (0.8889/0.75/0.7143/0.6667)

SourceWhat is the population of the largest city in the state with the largest area

Ref 0population_1(largest(city(loc_2(largest_one(area_1(state(all

Output 0population_1(stateid(largest(city(loc_2(largest_one(area_1(state(all

N-gramspopulation_1(stateid(largest(city(loc_2(largest_one(area_1(state(all
population_1(largest(city(loc_2(largest_one(area_1(state(all
largest(city(loc_2(largest_one(area_1(state(
largest(city(loc_2(largest_one(area_1(state(all
largest(city(loc_2(largest_one(area_1(state(all
city(loc_2(largest_one(area_1(state(
city(loc_2(largest_one(
city(loc_2(largest_one(area_1(
loc_2(largest_one(area_1(
loc_2(largest_one(area_1(state(
largest_one(area_1(state(all

Sentence 88) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)

SourceWhere is the lowest point in the US

Ref 0lowest(place(loc_2(countryid('usa'

Output 0loc_1(lowest(place(loc_2(countryid('usa'

N-gramslowest(place(loc_2(countryid('usa'
lowest(place(loc_2(countryid('usa'
lowest(place(loc_2(countryid(
lowest(place(loc_2(countryid('usa'
lowest(place(loc_2(countryid(
place(loc_2(
place(loc_2(countryid(
place(loc_2(countryid('usa'
loc_2(countryid('usa'

Sentence 89) BLEU: 0.5081 (0.6667/0.6/0.5/0.3333)

SourceWhat states have cities named Plano

Ref 0state(loc_1(city(cityid('plano', _

Output 0state(loc_1(city(cityid(stateid(Plano

N-gramstate(loc_1(city(cityid(stateid(Plano
state(loc_1(city(cityid(
state(loc_1(city(cityid(
state(loc_1(city(
state(loc_1(city(cityid(
loc_1(city(

	loc_1(city(cityid(
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Sentence 90) BLEU: 0 (0.6/0.25/0/0)	
Source	Which US city has the highest population density
Ref 0	largest_one(density_1(city(all
Output 0	Which US city(largest_one(density_1(
N-grams	Which US city(largest_one(density_1(city(largest_one(density_1(largest_one(density_1(

Sentence 91) BLEU: 0 (0.6667/0.375/0.1429/0)	
Source	What is the length of the river that runs through the most number of states
Ref 0	len(most(river(traverse_2(state(all
Output 0	len(stateid(loc_2(most(river(traverse_2(number state(all
N-grams	len(stateid(loc_2(most(river(traverse_2(number state(all len(most(river(traverse_2(state(all most(river(state(all most(river(traverse_2(river(traverse_2(

Sentence 92) BLEU: 0 (0.5/0.2/0/0)	
Source	How much population does Texas have
Ref 0	population_1(stateid('texas'
Output 0	population_1(much loc_2(stateid('texas' have
N-grams	population_1(much loc_2(stateid('texas' have population_1(stateid('texas' stateid('texas'

Sentence 93) BLEU: 0 (0.75/0.6667/0.5/0)	
Source	Which state contains most rivers
Ref 0	most(state(loc_1(river(all
Output 0	state(loc_1(river(most
N-grams	state(loc_1(river(most state(loc_1(river(state(loc_1(state(loc_1(river(loc_1(river(

Sentence 94) BLEU: 1 (1/1/1/1)	
Source	What is the lowest point in Arkansas
Ref 0	

Output 0	lowest(place(loc_2(stateid('arkansas'
	lowest(place(loc_2(stateid('arkansas'
N-grams	lowest(place(loc_2(stateid('arkansas'
	lowest(place(loc_2(stateid('arkansas'
	lowest(place(loc_2(stateid(
	lowest(place(loc_2(stateid('arkansas'
	lowest(place(loc_2(stateid(
	place(loc_2(
	place(loc_2(stateid(
	place(loc_2(stateid('arkansas'
	loc_2(stateid('arkansas'

Sentence 95) BLEU: 0.6148 (0.7143/0.6667/0.6/0.5)	
Source	What states does the Colorado river run through
Ref 0	state(traverse_1(river(riverid('colorado'
Output 0	What state(traverse_1(river(riverid('colorado' through
N-grams	What state(traverse_1(river(riverid('colorado' through
	state(traverse_1(river(riverid('colorado'
	state(traverse_1(river(riverid(
	state(traverse_1(river(riverid('colorado'
	state(traverse_1(river(riverid(
	traverse_1(river(
	traverse_1(river(riverid(
	traverse_1(river(riverid('colorado'
	river(riverid('colorado'

Sentence 96) BLEU: 0.5946 (0.875/0.7143/0.5/0.4)	
Source	Which states border the longest river in the USA
Ref 0	state(next_to_2(longest(river(loc_2(countryid('usa'
Output 0	state(next_to_2(stateid (longest(river(loc_2(countryid('usa'
N-grams	state(next_to_2(stateid(longest(river(loc_2(countryid('usa'
	state(next_to_2(longest(river(loc_2(countryid('usa'
	state(next_to_2(longest(river(loc_2(countryid(
	longest(river(loc_2(countryid('usa'
	longest(river(loc_2(countryid(
	river(loc_2(
	river(loc_2(countryid(
	river(loc_2(countryid('usa'
	loc_2(countryid('usa'

Sentence 97) BLEU: 0 (0.8333/0.6/0.25/0)	
Source	What cities are located in Pennsylvania
Ref 0	city(loc_2(stateid('pennsylvania'

Output 0	city(loc_2(stateid(located stateid('pennsylvania'
	city(loc_2(stateid(located stateid('pennsylvania'
N-grams	city(loc_2(stateid(stateid('pennsylvania'
	city(loc_2(stateid(loc_2(stateid('pennsylvania'

Sentence 98) BLEU: 1 (1/1/1/1)	
Source	What is the smallest city in Washington
Ref 0	smallest(city(loc_2(stateid('washington'
Output 0	smallest(city(loc_2(stateid('washington'
N-grams	smallest(city(loc_2(stateid('washington'
	smallest(city(loc_2(stateid('washington'
N-grams	smallest(city(loc_2(stateid('washington'
	smallest(city(loc_2(stateid('washington'

Sentence 99) BLEU: 0 (0.7/0.3333/0.125/0)	
Source	How many rivers are in the state that has the most rivers
Ref 0	count(river(loc_2(most(state(loc_1(river(all
Output 0	count(river(loc_2(state(stateid(that most(has river(all
N-grams	count(river(loc_2(state(stateid(that most(has river(all
	count(river(loc_2(state(most(river(all

Sentence 100) BLEU: 1 (1/1/1/1)	
Source	What is the lowest point in Mississippi
Ref 0	lowest(place(loc_2(stateid('mississippi'
Output 0	lowest(place(loc_2(stateid('mississippi'
N-grams	lowest(place(loc_2(stateid('mississippi'
N-grams	lowest(place(loc_2(stateid('mississippi'
N-grams	lowest(place(loc_2(stateid('mississippi'
N-grams	lowest(place(loc_2(stateid('mississippi'

	place(loc_2(stateid('mississippi' loc_2(stateid('mississippi'
--	---

Sentence 101) BLEU: 1 (1/1/1/1)	
Source	What are the major cities in Ohio
Ref 0	major(city(loc_2(stateid('ohio'
Output 0	major(city(loc_2(stateid('ohio'
N-grams	major(city(loc_2(stateid('ohio'
	major(city(loc_2(stateid('ohio'
	major(city(loc_2(stateid(
	major(city(loc_2(stateid('ohio'
	major(city(loc_2(stateid(
N-grams	major(city(loc_2(stateid(
	city(loc_2(
	city(loc_2(stateid(
	city(loc_2(stateid('ohio'
	loc_2(stateid('ohio'

Sentence 102) BLEU: 1 (1/1/1/1)	
Source	What is the population density of South Dakota
Ref 0	density_1(stateid('south dakota'
Output 0	density_1(stateid('south dakota'
N-grams	density_1(stateid('south dakota'
	density_1(stateid('south dakota'
	density_1(stateid('south dakota'
	density_1(stateid('south
	density_1(stateid('south dakota'
N-grams	stateid('south
	stateid('south dakota'

Sentence 103) BLEU: 1 (1/1/1/1)	
Source	What is the lowest point in Massachusetts
Ref 0	lowest(place(loc_2(stateid('massachusetts'
Output 0	lowest(place(loc_2(stateid('massachusetts'
N-grams	lowest(place(loc_2(stateid('massachusetts'
	lowest(place(loc_2(stateid('massachusetts'
	lowest(place(loc_2(stateid(
	lowest(place(loc_2(stateid('massachusetts'
	lowest(place(loc_2(stateid(
N-grams	lowest(place(loc_2(stateid(
	place(loc_2(
	place(loc_2(stateid(
	place(loc_2(stateid('massachusetts'
	loc_2(stateid('massachusetts'

Sentence 104) BLEU: 0.5373 (0.8333/0.6/0.5/0.3333)	
Source	How many people live in the capital of Georgia
Ref 0	population_1(capital(loc_2(stateid('georgia'
Output 0	population_1(cityid (capital(loc_2(stateid('georgia'
N-grams	population_1(cityid(capital(loc_2(stateid('georgia' population_1(capital(loc_2(stateid('georgia' capital(loc_2(stateid('georgia' capital(loc_2(stateid(capital(loc_2(stateid('georgia' loc_2(stateid(loc_2(stateid('georgia'

Sentence 105) BLEU: 0.6687 (0.8/0.75/0.6667/0.5)	
Source	What mountains are in Alaska
Ref 0	mountain(loc_2(stateid('alaska'
Output 0	What mountain(loc_2(stateid('alaska'
N-grams	What mountain(loc_2(stateid('alaska' mountain(loc_2(stateid('alaska' mountain(loc_2(stateid('alaska' mountain(loc_2(stateid(mountain(loc_2(stateid('alaska' loc_2(stateid(loc_2(stateid('alaska'

Sentence 106) BLEU: 0 (1/1/1/0)	
Source	How many people live in Houston
Ref 0	population_1(cityid('houston', _
Output 0	population_1(cityid('houston',
N-grams	population_1(cityid('houston', population_1(cityid('houston', population_1(cityid(population_1(cityid('houston', cityid('houston',

Sentence 107) BLEU: 0 (0.6667/0.2/0/0)	
Source	How long is the North Platte river
Ref 0	len(river(riverid('north platte'
Output 0	len(riverid('north Platte river(all
N-grams	len(riverid('north Platte river(all len(riverid('north river(riverid('north

Sentence 108) BLEU: 1 (1/1/1/1)

Source	What state is Dallas in
Ref 0	state(loc_1(cityid('dallas', _
Output 0	state(loc_1(cityid('dallas', _
N-grams	state(loc_1(cityid('dallas', _ state(loc_1(cityid('dallas', _ state(loc_1(cityid('dallas', _ state(loc_1(cityid('dallas', _ state(loc_1(cityid('dallas', _ loc_1(cityid(loc_1(cityid('dallas', loc_1(cityid('dallas', _ cityid('dallas', _

Sentence 109) BLEU: 1 (1/1/1/1)

Source	What state has the highest elevation
Ref 0	state(loc_1(highest(place(all
Output 0	state(loc_1(highest(place(all
N-grams	state(loc_1(highest(place(all state(loc_1(highest(place(all state(loc_1(highest(place(state(loc_1(highest(place(all state(loc_1(highest(place(loc_1(highest(loc_1(highest(place(loc_1(highest(place(all highest(place(all

Sentence 110) BLEU: 1 (1/1/1/1)

Source	What is the most populous city
Ref 0	largest_one(population_1(city(all
Output 0	largest_one(population_1(city(all
N-grams	largest_one(population_1(city(all largest_one(population_1(city(all largest_one(population_1(city(all largest_one(population_1(city(largest_one(population_1(city(all population_1(city(population_1(city(all

Sentence 111) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)

Source	What is the total population of the states that border Texas
--------	--

Ref 0	sum(population_1(state(next_to_2(stateid('texas'
Output 0	total population_1(state(next_to_2(stateid('texas'
N-grams	total population_1(state(next_to_2(stateid('texas' population_1(state(next_to_2(stateid('texas' population_1(state(next_to_2(stateid(population_1(state(next_to_2(stateid('texas' population_1(state(next_to_2(stateid(state(next_to_2(state(next_to_2(stateid(state(next_to_2(stateid('texas' next_to_2(stateid('texas'

Sentence 112) BLEU: 0.5133 (0.7778/0.625/0.4286/0.3333)	
Source	What states border the state that borders the most states
Ref 0	state(next_to_2(most(state(next_to_2(state(all
Output 0	state(next_to_2(stateid(the most(state(next_to_2(state(all
N-grams	state(next_to_2(stateid(the most(state(next_to_2(state(all state(next_to_2(most(state(next_to_2(state(all state(next_to_2(most(state(next_to_2(state(most(state(next_to_2(state(all most(state(next_to_2(state(state(next_to_2(state(next_to_2(state(state(next_to_2(state(all next_to_2(state(all

Sentence 113) BLEU: 0 (0.5/0/0/0)	
Source	Which state has the highest population density
Ref 0	largest_one(density_1(state(all
Output 0	state(loc_1(highest(density_1(
N-grams	state(loc_1(highest(density_1(state(density_1(

Sentence 114) BLEU: 1 (1/1/1/1)	
Source	How many cities are in Louisiana
Ref 0	count(city(loc_2(stateid('louisiana'
Output 0	count(city(loc_2(stateid('louisiana'
N-grams	count(city(loc_2(stateid('louisiana' count(city(loc_2(stateid('louisiana' count(city(loc_2(stateid(count(city(loc_2(stateid('louisiana'


```
count( city( loc_2( stateid(
    city( loc_2(
    city( loc_2( stateid(
    city( loc_2( stateid( 'louisiana'
    loc_2( stateid( 'louisiana'
```

Sentence 115) BLEU: 1 (1/1/1/1)

Source	What states border Wisconsin
Ref 0	state(next_to_2(stateid('wisconsin'
Output 0	state(next_to_2(stateid('wisconsin'
N-grams	state(next_to_2(stateid('wisconsin' state(next_to_2(stateid('wisconsin' state(next_to_2(stateid('wisconsin' state(next_to_2(stateid(state(next_to_2(stateid('wisconsin' next_to_2(stateid(next_to_2(stateid('wisconsin'

Sentence 116) BLEU: 1 (1/1/1/1)

Source	Which states border Kentucky
Ref 0	state(next_to_2(stateid('kentucky'
Output 0	state(next_to_2(stateid('kentucky'
N-grams	state(next_to_2(stateid('kentucky' state(next_to_2(stateid('kentucky' state(next_to_2(stateid('kentucky' state(next_to_2(stateid(state(next_to_2(stateid('kentucky' next_to_2(stateid(next_to_2(stateid('kentucky'

Sentence 117) BLEU: 1 (1/1/1/1)

Source	What is the most populous state
Ref 0	largest_one(population_1(state(all
Output 0	largest_one(population_1(state(all
N-grams	largest_one(population_1(state(all largest_one(population_1(state(all largest_one(population_1(state(all largest_one(population_1(state(largest_one(population_1(state(all population_1(state(population_1(state(all

Sentence 118) BLEU: 0 (0.6667/0.4/0.25/0)	
Source	What is the area of the largest state
Ref 0	area_1(largest(state(all
Output 0	area_1(stateid(loc_2(largest(state(all
N-grams	area_1(stateid(loc_2(largest(state(all
	area_1(largest(state(all
	largest(state(
	largest(state(all
	state(all

Sentence 119) BLEU: 0 (0.8/0.5/0.3333/0)	
Source	What state is Pittsburgh in
Ref 0	state(loc_1(cityid('pittsburgh', _
Output 0	state(loc_1(cityid(Pittsburgh _
N-grams	state(loc_1(cityid(Pittsburgh _
	state(loc_1(cityid(_
	state(loc_1(
	state(loc_1(cityid(
	loc_1(cityid(

Sentence 120) BLEU: 1 (1/1/1/1)	
Source	What is the highest point in Texas
Ref 0	highest(place(loc_2(stateid('texas'
Output 0	highest(place(loc_2(stateid('texas'
N-grams	highest(place(loc_2(stateid('texas'
	highest(place(loc_2(stateid('texas'
	highest(place(loc_2(stateid(
	highest(place(loc_2(stateid('texas'
	highest(place(loc_2(stateid(
	place(loc_2(
	place(loc_2(stateid(
	place(loc_2(stateid('texas'
	loc_2(stateid('texas'

Sentence 121) BLEU: 0.6687 (0.8/0.75/0.6667/0.5)	
Source	Where is Mount Whitney located
Ref 0	loc_1(placeid('mount whitney'
Output 0	loc_1(placeid('mount whitney' located
N-grams	loc_1(placeid('mount whitney' located
	loc_1(placeid('mount whitney'
	loc_1(placeid('mount whitney'

loc_1(placeid('mount
loc_1(placeid('mount whitney'
placeid('mount
placeid('mount whitney'

Sentence 122) BLEU: 1 (1/1/1/1)

Source	What state has the largest city
Ref 0	state(loc_1(largest(city(all
Output 0	state(loc_1(largest(city(all
N-grams	state(loc_1(largest(city(all state(loc_1(largest(city(all state(loc_1(largest(city(state(loc_1(largest(city(all state(loc_1(largest(city(loc_1(largest(loc_1(largest(city(loc_1(largest(city(all largest(city(all

Sentence 123) BLEU: 1 (1/1/1/1)

Source	What are the major cities in New Mexico
Ref 0	major(city(loc_2(stateid('new mexico'
Output 0	major(city(loc_2(stateid('new mexico'
N-grams	major(city(loc_2(stateid('new mexico' major(city(loc_2(stateid('new mexico' major(city(loc_2(stateid('new mexico' major(city(loc_2(stateid('new major(city(loc_2(stateid(city(loc_2(stateid('new mexico' city(loc_2(stateid(city(loc_2(stateid('new loc_2(stateid('new loc_2(stateid('new mexico'

Sentence 124) BLEU: 0.3549 (0.6667/0.5/0.2857/0.1667)

Source	What is the capital of states that have cities named Durham
Ref 0	capital(loc_2(state(loc_1(city(cityid('durham', _
Output 0	capital(loc_2(stateid(that state(loc_1(city(cityid(Durham
N-grams	capital(loc_2(stateid(that state(loc_1(city(cityid(Durham capital(loc_2(state(loc_1(city(cityid(capital(loc_2(state(loc_1(city(cityid(state(loc_1(city(state(loc_1(city(cityid(

	loc_1(city(loc_1(city(cityid(
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Sentence 125) BLEU: 0 (0.8571/0.6667/0.4/0)		
Source	What are the names of the major cities in Illinois	
Ref 0	major(city(loc_2(stateid('illinois'	
Output 0	major(city(loc_2(names loc_2(stateid('illinois'	
N-grams	major(city(loc_2(names loc_2(stateid('illinois'	
	major(city(loc_2(loc_2(stateid('illinois'	
	major(city(loc_2(stateid('illinois'	
	major(city(loc_2(stateid(
	city(loc_2(stateid('illinois'	

Sentence 126) BLEU: 1 (1/1/1/1)		
Source	What states border New Jersey	
Ref 0	state(next_to_2(stateid('new jersey'	
Output 0	state(next_to_2(stateid('new jersey'	
N-grams	state(next_to_2(stateid('new jersey'	
	state(next_to_2(stateid('new jersey'	
	state(next_to_2(stateid('new	
	state(next_to_2(stateid('new jersey'	
	state(next_to_2(stateid('new jersey'	

Sentence 127) BLEU: 1 (1/1/1/1)		
Source	What state borders Michigan	
Ref 0	state(next_to_2(stateid('michigan'	
Output 0	state(next_to_2(stateid('michigan'	
N-grams	state(next_to_2(stateid('michigan'	
	state(next_to_2(stateid('michigan'	
	state(next_to_2(stateid('michigan'	
	state(next_to_2(stateid(
	next_to_2(stateid('michigan'	

Sentence 128) BLEU: 1 (1/1/1/1)		
Source	What is the smallest state bordering Ohio	
Ref 0	smallest(state(next_to_2(stateid('ohio'	

Output 0	smallest(state(next_to_2(stateid('ohio'
N-grams	smallest(state(next_to_2(stateid('ohio' smallest(state(next_to_2(stateid('ohio' smallest(state(next_to_2(stateid('ohio' smallest(state(next_to_2(stateid('ohio' smallest(state(next_to_2(stateid('ohio' smallest(state(next_to_2(stateid('ohio' smallest(state(next_to_2(stateid('ohio' smallest(state(next_to_2(stateid('ohio' smallest(state(next_to_2(stateid('ohio'

Sentence 129) BLEU: 0 (0.8571/0.5/0.2/0)	
Source	Which state has the most major rivers running through it
Ref 0	most(state(traverse_1(major(river(all
Output 0	traverse_1(most(state(loc_1(major(river(all
N-grams	traverse_1(most(state(loc_1(major(river(all traverse_1(most(state(major(river(all traverse_1(most(state(major(river(all traverse_1(most(state(major(river(all traverse_1(most(state(major(river(all traverse_1(most(state(major(river(all traverse_1(most(state(major(river(all traverse_1(most(state(major(river(all traverse_1(most(state(major(river(all

Sentence 130) BLEU: 0.4111 (0.6/0.4444/0.375/0.2857)	
Source	In which state does the highest point in USA exist
Ref 0	state(loc_1(highest(place(loc_2(countryid('usa'
Output 0	In which state(traverse_1(highest(place(loc_2(countryid('usa' exist
N-grams	In which state(traverse_1(highest(place(loc_2(countryid('usa' exist In which state(traverse_1(highest(place(loc_2(countryid('usa' exist In which state(traverse_1(highest(place(loc_2(countryid('usa' exist In which state(traverse_1(highest(place(loc_2(countryid('usa' exist In which state(traverse_1(highest(place(loc_2(countryid('usa' exist In which state(traverse_1(highest(place(loc_2(countryid('usa' exist In which state(traverse_1(highest(place(loc_2(countryid('usa' exist In which state(traverse_1(highest(place(loc_2(countryid('usa' exist In which state(traverse_1(highest(place(loc_2(countryid('usa' exist In which state(traverse_1(highest(place(loc_2(countryid('usa' exist

Sentence 131) BLEU: 0.6804 (0.75/0.7143/0.6667/0.6)	
Source	How many states does the Mississippi river run through
Ref 0	count(state(traverse_1(river(riverid('mississippi'
Output 0	count(state(traverse_1(river(riverid('mississippi' How through
N-grams	count(state(traverse_1(river(riverid('mississippi' How through count(state(traverse_1(river(riverid('mississippi' How through count(state(traverse_1(river(riverid('mississippi' How through count(state(traverse_1(river(riverid('mississippi' How through count(state(traverse_1(river(riverid('mississippi' How through count(state(traverse_1(river(riverid('mississippi' How through count(state(traverse_1(river(riverid('mississippi' How through count(state(traverse_1(river(riverid('mississippi' How through count(state(traverse_1(river(riverid('mississippi' How through count(state(traverse_1(river(riverid('mississippi' How through

count(state(traverse_1(river(riverid(
count(state(traverse_1(river(
state(traverse_1(river(riverid('mississippi'	
state(traverse_1(river(
state(traverse_1(river(riverid(
traverse_1(river(riverid(
traverse_1(river(riverid('mississippi'	

Sentence 132) BLEU: 0 (0.6667/0.2/0/0)

Source	What is the capital of the Florida state
Ref 0	capital(loc_2(state(stateid('florida'
Output 0	capital(loc_2(stateid(Florida state(all
N-grams	capital(loc_2(stateid(Florida state(all capital(loc_2(stateid(state(capital(loc_2(

Sentence 133) BLEU: 1 (1/1/1/1)

Source	Which state has the sparsest population density
Ref 0	smallest_one(density_1(state(all
Output 0	smallest_one(density_1(state(all
N-grams	smallest_one(density_1(state(all smallest_one(density_1(state(all smallest_one(density_1(state(all smallest_one(density_1(state(smallest_one(density_1(state(all density_1(state(density_1(state(all

Sentence 134) BLEU: 0.4799 (0.6364/0.5/0.4444/0.375)

Source	Could you tell me what is the highest point in the state of Oregon
Ref 0	highest(place(loc_2(state(stateid('oregon'
Output 0	Could you tell stateid(low_point_1 (highest(place(loc_2(state(stateid ('oregon'
N-grams	Could you tell stateid(low_point_1(highest(place(loc_2(state(stateid('oregon' stateid(highest(place(loc_2(state(stateid('oregon' highest(place(loc_2(state('oregon' highest(place(loc_2(state(stateid(highest(place(loc_2(state(place(loc_2(state(stateid('oregon' place(loc_2(state(place(loc_2(state(stateid(loc_2(state(stateid(loc_2(state(stateid('oregon'

Sentence 135) BLEU: 0 (1/0.6667/0/0)

Source	How big is Alaska
Ref 0	size(stateid('alaska'
Output 0	size(stateid(stateid ('alaska'
N-grams	size(stateid(stateid('alaska' size(stateid(stateid('alaska' size(stateid('alaska'

Sentence 136) BLEU: 0 (0.3333/0/0/0)

Source	What is the population of Dallas
Ref 0	population_1(cityid('dallas', _
Output 0	population_1(stateid (Dallas
N-grams	population_1(stateid(Dallas population_1(

Sentence 137) BLEU: 0 (0.4286/0.1667/0/0)

Source	What states have rivers running through them
Ref 0	state(traverse_1(river(all
Output 0	state(loc_1 (river(all running through them
N-grams	state(loc_1(river(all running through them state(river(all river(all

Sentence 138) BLEU: 0 (0.5714/0.3333/0.2/0)

Source	Name the states which have no surrounding states
Ref 0	exclude(state(all , next_to_2(state(all
Output 0	Name loc_2 (state(all , surrounding state(
N-grams	Name loc_2(state(all , surrounding state(state(all , state(state(all state(all , all ,

Sentence 139) BLEU: 0.5 (0.875/0.7143/0.5/0.2)

Source	How many states border the state with the largest population
Ref 0	count(state(next_to_2(largest_one(population_1(state(all
Output 0	count(state(next_to_2(stateid (largest_one(population_1(state(all
N-grams	count(state(next_to_2(stateid(largest_one(population_1(state(all count(state(next_to_2(largest_one(population_1(state(all count(state(largest_one(population_1(state(all

count(state(next_to_2(largest_one(population_1(state(
state(next_to_2(largest_one(population_1(state(all
	population_1(state(
	population_1(state(all

Sentence 140) BLEU: 0 (0.625/0.4286/0.1667/0)

Source	What is the largest of the states that the Rio Grande runs through
Ref 0	largest(state(traverse_1(riverid('rio grande'
Output 0	largest(state(all that riverid('rio grande' traverse_2(
N-grams	largest(state(all that riverid('rio grande' traverse_2(largest(state(riverid('rio grande' largest(state(riverid('rio riverid('rio grande' 'rio grande'

Sentence 141) BLEU: 1 (1/1/1/1)

Source	What state has the largest area
Ref 0	largest_one(area_1(state(all
Output 0	largest_one(area_1(state(all
N-grams	largest_one(area_1(state(all largest_one(area_1(state(all largest_one(area_1(state(all largest_one(area_1(state(largest_one(area_1(state(all area_1(state(area_1(state(all

Sentence 142) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)

Source	How many states does Tennessee border
Ref 0	count(state(next_to_1(stateid('tennessee'
Output 0	count(state(next_to_1(stateid('tennessee' border
N-grams	count(state(next_to_1(stateid('tennessee' border count(state(next_to_1(stateid('tennessee' count(state(next_to_1(stateid(count(state(next_to_1(stateid('tennessee' count(state(next_to_1(stateid(state(next_to_1(state(next_to_1(stateid(state(next_to_1(stateid('tennessee' next_to_1(stateid('tennessee'

Sentence 143) BLEU: 0.6148 (0.7143/0.6667/0.6/0.5)

Source	What is the biggest capital city in the US
Ref 0	largest(capital(city(loc_2(countryid('usa'
Output 0	biggest stateid(capital(city(loc_2(countryid('usa'
N-grams	biggest stateid(capital(city(loc_2(countryid('usa' capital(city(loc_2(countryid('usa' capital(city(loc_2(countryid(capital(city(loc_2(countryid('usa' capital(city(loc_2(countryid(city(loc_2(city(loc_2(countryid(city(loc_2(countryid('usa' loc_2(countryid('usa'

Sentence 144) BLEU: 0 (0.5714/0.3333/0/0)	
Source	What is the longest river flowing through New York
Ref 0	longest(river(traverse_2(stateid('new york'
Output 0	longest(river(all flowing through 'new york'
N-grams	longest(river(all flowing through 'new york' longest(river('new york' longest(river('new york'

Sentence 145) BLEU: 1 (1/1/1/1)	
Source	What is the largest city in a state that borders Texas
Ref 0	largest(city(loc_2(state(next_to_2(stateid('texas'
Output 0	largest(city(loc_2(state(next_to_2(stateid('texas'
N-grams	largest(city(loc_2(state(next_to_2(stateid('texas' largest(city(loc_2(state(next_to_2(stateid('texas' largest(city(loc_2(state(next_to_2(stateid(largest(city(loc_2(state(next_to_2(stateid('texas' largest(city(loc_2(state(next_to_2(stateid('texas' city(loc_2(state(next_to_2(stateid(city(loc_2(state(city(loc_2(state(next_to_2(loc_2(state(next_to_2(loc_2(state(next_to_2(stateid(state(next_to_2(stateid('texas'

Sentence 146) BLEU: 0 (1/1/1/0)	
Source	What is the area of Maine
Ref 0	area_1(stateid('maine'
Output 0	area_1(stateid('maine'
N-grams	

area_1(stateid('maine'

area_1(stateid('maine'

area_1(stateid(

area_1(stateid('maine'

stateid('maine'

Sentence 147) BLEU: 0 (0.8/0.25/0/0)

Source	What state has the most rivers running through it
Ref 0	most(state(traverse_1(river(all
Output 0	What state(traverse_1(most(river(
N-grams	What state(traverse_1(most(river(state(traverse_1(most(river(state(traverse_1(

Sentence 148) BLEU: 0.5081 (0.6667/0.6/0.5/0.3333)

Source	What is the largest capital city in the USA
Ref 0	largest(capital(city(loc_2(countryid('usa'
Output 0	largest(capital(city(loc_2(stateid(USA
N-grams	largest(capital(city(loc_2(stateid(USA largest(capital(city(loc_2(largest(capital(city(loc_2(largest(capital(city(largest(capital(city(loc_2(capital(city(capital(city(loc_2(

Sentence 149) BLEU: 1 (1/1/1/1)

Source	What state has the highest population density
Ref 0	largest_one(density_1(state(all
Output 0	largest_one(density_1(state(all
N-grams	largest_one(density_1(state(all largest_one(density_1(state(all largest_one(density_1(state(all largest_one(density_1(state(largest_one(density_1(state(all density_1(state(density_1(state(all

Sentence 150) BLEU: 0 (1/1/1/0)

Source	What is the size of Texas
Ref 0	size(stateid('texas'
Output 0	

N-grams	size(stateid('texas'
	size(stateid('texas'
	size(stateid('texas'
	size(stateid(
	size(stateid('texas'

stateid('texas'

Sentence 151) BLEU: 1 (1/1/1/1)	
Source	What is the longest river that flows through Colorado
Ref 0	longest(river(traverse_2(stateid('colorado'
Output 0	longest(river(traverse_2(stateid('colorado'
N-grams	longest(river(traverse_2(stateid('colorado'
	longest(river(traverse_2(stateid('colorado'
	longest(river(traverse_2(stateid('colorado'
	longest(river(traverse_2(stateid(
	longest(river(traverse_2(stateid('colorado'

longest(river(traverse_2(stateid(
river(traverse_2(
river(traverse_2(stateid(
river(traverse_2(stateid('colorado'
traverse_2(stateid('colorado'

Sentence 152) BLEU: 1 (1/1/1/1)	
Source	Give me the cities in Virginia
Ref 0	city(loc_2(stateid('virginia'
Output 0	city(loc_2(stateid('virginia'
N-grams	city(loc_2(stateid('virginia'
	city(loc_2(stateid('virginia'
	city(loc_2(stateid('virginia'
	city(loc_2(stateid(
	city(loc_2(stateid('virginia'

loc_2(stateid(
loc_2(stateid('virginia'

Sentence 153) BLEU: 0 (0.6/0.5/0.3333/0)	
Source	What is the lowest point in USA
Ref 0	lowest(place(loc_2(countryid('usa'
Output 0	lowest(place(loc_2(stateid(USA
N-grams	lowest(place(loc_2(
	lowest(place(
	lowest(place(loc_2(
	lowest(place(loc_2(
	lowest(place(loc_2(

lowest(place(loc_2(

Sentence 154) BLEU: 1 (1/1/1/1)

Source	What are the major cities in Texas
Ref 0	major(city(loc_2(stateid('texas'
Output 0	major(city(loc_2(stateid('texas'
N-grams	major(city(loc_2(stateid('texas'
	major(city(loc_2(stateid('texas'
	major(city(loc_2(stateid(
	major(city(loc_2(stateid('texas'
	major(city(loc_2(stateid(

Sentence 155) BLEU: 0.5 (0.875/0.7143/0.5/0.2)

Source	What are the major cities in the largest state
Ref 0	major(city(loc_2(largest(state(all
Output 0	major(city(loc_2(stateid(loc_2(largest(state(all
N-grams	major(city(loc_2(stateid(loc_2(largest(state(all
	major(city(loc_2(loc_2(largest(state(all
	major(city(loc_2(largest(state(
	major(city(loc_2(loc_2(largest(state(all
	city(loc_2(largest(state(all

Sentence 156) BLEU: 0 (0.6/0.5/0.3333/0)

Source	What is the lowest point of the US
Ref 0	lowest(place(loc_2(countryid('usa'
Output 0	lowest(place(loc_2(stateid(US
N-grams	lowest(place(loc_2(stateid(US
	lowest(place(loc_2(
	lowest(place(
	lowest(place(loc_2(

Sentence 157) BLEU: 1 (1/1/1/1)

Source	What is the highest point in Wyoming
Ref 0	highest(place(loc_2(stateid('wyoming'
Output 0	highest(place(loc_2(stateid('wyoming'
N-grams	highest(place(loc_2(stateid('wyoming'

highest(place(loc_2(stateid('wyoming'

highest(place(loc_2(stateid(

highest(place(loc_2(stateid('wyoming'

highest(place(loc_2(stateid(

place(loc_2(

place(loc_2(stateid(

place(loc_2(stateid('wyoming'

loc_2(stateid('wyoming'

Sentence 158) BLEU: 1 (1/1/1/1)

Source	What is the capital of Washington
Ref 0	capital(loc_2(stateid('washington'
Output 0	capital(loc_2(stateid('washington'
N-grams	capital(loc_2(stateid('washington'
	capital(loc_2(stateid('washington'
	capital(loc_2(stateid('washington'
	capital(loc_2(stateid(
	capital(loc_2(stateid('washington'
	loc_2(stateid(
	loc_2(stateid('washington'

Sentence 159) BLEU: 0 (1/1/1/0)

Source	What is the area of Wisconsin
Ref 0	area_1(stateid('wisconsin'
Output 0	area_1(stateid('wisconsin'
N-grams	area_1(stateid('wisconsin'
	area_1(stateid('wisconsin'
	area_1(stateid(
	area_1(stateid('wisconsin'
	stateid('wisconsin'

Sentence 160) BLEU: 1 (1/1/1/1)

Source	What rivers are in states that border Texas
Ref 0	river(loc_2(state(next_to_2(stateid('texas'
Output 0	river(loc_2(state(next_to_2(stateid('texas'
N-grams	river(loc_2(state(next_to_2(stateid('texas'
	river(loc_2(state(next_to_2(stateid('texas'
	river(loc_2(state(next_to_2(stateid('texas'
	river(loc_2(state(next_to_2(stateid(
	river(loc_2(state(next_to_2(
	loc_2(state(next_to_2(stateid('texas'
	loc_2(state(next_to_2(

	<div>loc_2(state(next_to_2(stateid(state(next_to_2(stateid(state(next_to_2(stateid('texas'</div>
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Sentence 161) BLEU: 1 (1/1/1/1)	
Source	<div>What is the capital of Illinois</div>
Ref 0	<div>capital(loc_2(stateid('illinois'</div>
Output 0	<div>capital(loc_2(stateid('illinois'</div>
N-grams	<div>capital(loc_2(stateid('illinois' capital(loc_2(stateid('illinois' capital(loc_2(stateid('illinois' capital(loc_2(stateid(capital(loc_2(stateid('illinois' loc_2(stateid(loc_2(stateid('illinois'</div>

Sentence 162) BLEU: 0 (0.8571/0.6667/0.4/0)	
Source	<div>What is the capital of the state with the longest river</div>
Ref 0	<div>capital(loc_2(state(loc_1(longest(river(all</div>
Output 0	<div>capital(loc_2(state(stateid(longest(river(all</div>
N-grams	<div>capital(loc_2(state(stateid(longest(river(all capital(loc_2(state(longest(river(all capital(loc_2(longest(river(capital(loc_2(state(longest(river(all loc_2(state(river(all</div>

Sentence 163) BLEU: 1 (1/1/1/1)	
Source	<div>What is the highest point in states bordering Georgia</div>
Ref 0	<div>highest(place(loc_2(state(next_to_2(stateid('georgia'</div>
Output 0	<div>highest(place(loc_2(state(next_to_2(stateid('georgia'</div>
N-grams	<div>highest(place(loc_2(state(next_to_2(stateid('georgia' highest(place(loc_2(state(next_to_2(stateid('georgia' highest(place(loc_2(state(next_to_2(stateid(highest(place(loc_2(state(next_to_2(stateid('georgia' highest(place(loc_2(state(next_to_2(stateid('georgia' place(loc_2(state(next_to_2(stateid(place(loc_2(state(place(loc_2(state(next_to_2(loc_2(state(next_to_2(loc_2(state(next_to_2(stateid(state(next_to_2(stateid('georgia'</div>

Sentence 164) BLEU: 1 (1/1/1/1)

Source	What states border New Hampshire
Ref 0	state(next_to_2(stateid('new hampshire'
Output 0	state(next_to_2(stateid('new hampshire'
N-grams	state(next_to_2(stateid('new hampshire' state(next_to_2(stateid('new hampshire' state(next_to_2(stateid('new hampshire' state(next_to_2(stateid('new hampshire' state(next_to_2(stateid('new hampshire' state(next_to_2(stateid('new hampshire'

Sentence 165) BLEU: 1 (1/1/1/1)

Source	What is the capital of Maryland
Ref 0	capital(loc_2(stateid('maryland'
Output 0	capital(loc_2(stateid('maryland'
N-grams	capital(loc_2(stateid('maryland' capital(loc_2(stateid('maryland' capital(loc_2(stateid('maryland' capital(loc_2(stateid('maryland' capital(loc_2(stateid('maryland' capital(loc_2(stateid('maryland'

Sentence 166) BLEU: 0.6687 (0.8/0.75/0.6667/0.5)

Source	What state has the city Flint
Ref 0	state(loc_1(city(cityid('flint', _
Output 0	state(loc_1(city(cityid(Flint
N-grams	state(loc_1(city(cityid(Flint state(loc_1(city(cityid(Flint state(loc_1(city(cityid(Flint state(loc_1(city(cityid(Flint state(loc_1(city(cityid(Flint state(loc_1(city(cityid(Flint

Sentence 167) BLEU: 0 (1/1/1/0)

Source	What is the population of Idaho
Ref 0	population_1(stateid('idaho'
Output 0	

N-grams	population_1(stateid('idaho'
	population_1(stateid('idaho'
	population_1(stateid('idaho'
	population_1(stateid('idaho'
N-grams	population_1(stateid(
	population_1(stateid('idaho'
	population_1(stateid('idaho'
	stateid('idaho'

Sentence 168) BLEU: 1 (1/1/1/1)	
Source	What is the longest river in Texas
Ref 0	longest(river(loc_2(stateid('texas'
Output 0	longest(river(loc_2(stateid('texas'
N-grams	longest(river(loc_2(stateid('texas'
	longest(river(loc_2(stateid('texas'
	longest(river(loc_2(stateid('texas'
	longest(river(loc_2(stateid('texas'
N-grams	longest(river(loc_2(stateid(
	river(loc_2(
	river(loc_2(stateid(
	river(loc_2(stateid('texas'
N-grams	loc_2(stateid('texas'

Sentence 169) BLEU: 0.6606 (0.8889/0.75/0.5714/0.5)	
Source	What rivers flow through states that border the state with the largest population
Ref 0	river(traverse_2(state(next_to_2(largest_one(population_1(state(all
Output 0	river(traverse_2(stateid(state(next_to_2(largest_one(population_1(state(all
N-grams	river(traverse_2(stateid(state(next_to_2(largest_one(population_1(state(all
	river(traverse_2(state(next_to_2(largest_one(population_1(state(all
	river(traverse_2(state(next_to_2(largest_one(population_1(state(all
	state(next_to_2(largest_one(population_1(state(
N-grams	state(next_to_2(largest_one(population_1(
	next_to_2(largest_one(population_1(state(all
	next_to_2(largest_one(population_1(
	next_to_2(largest_one(population_1(state(
N-grams	largest_one(population_1(state(
	largest_one(population_1(state(all

Sentence 170) BLEU: 0 (0.8/0.25/0/0)	
Source	What is the area of the Texas state
Ref 0	area_1(state(stateid('texas'
Output 0	area_1(stateid('texas' state(all
N-grams	area_1(stateid('texas' state(all
N-grams	area_1(stateid('texas' state(

	stateid('texas'	
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Sentence 171) BLEU: 1 (1/1/1/1)		
Source	What states border Delaware	
Ref 0	state(next_to_2(stateid('delaware'	
Output 0	state(next_to_2(stateid('delaware'	
N-grams	state(next_to_2(stateid('delaware'	
	state(next_to_2(stateid('delaware'	
	state(next_to_2(stateid('delaware'	
	state(next_to_2(stateid('delaware'	

Sentence 172) BLEU: 1 (1/1/1/1)		
Source	What is the capital of North Dakota	
Ref 0	capital(loc_2(stateid('north dakota'	
Output 0	capital(loc_2(stateid('north dakota'	
N-grams	capital(loc_2(stateid('north dakota'	
	capital(loc_2(stateid('north dakota'	
	capital(loc_2(stateid('north	
	capital(loc_2(stateid('north dakota'	

Sentence 173) BLEU: 0 (0.6/0/0/0)		
Source	What is the area of all the states combined	
Ref 0	sum(area_1(state(all	
Output 0	area_1(stateid(state(combined all	
N-grams	area_1(stateid(state(combined all	
	area_1(state(all	

Sentence 174) BLEU: 0.455 (0.8571/0.5/0.4/0.25)		
Source	What is the longest river that does not run through Texas	
Ref 0	longest(exclude(river(all , traverse_2(stateid('texas'	
Output 0	longest(river(loc_2(, traverse_2(stateid('texas'	
N-grams	longest(river(loc_2(, traverse_2(stateid('texas'	
	longest(river(, traverse_2(stateid('texas'	

	<div>, traverse_2(stateid('texas'</div> <div>, traverse_2(stateid(</div> <div>, traverse_2(stateid('texas'</div> <div>traverse_2(stateid(</div> <div>traverse_2(stateid('texas'</div>	
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Sentence 175) BLEU: 1 (1/1/1/1)		
Source	What is the highest point in Montana	
Ref 0	highest(place(loc_2(stateid('montana'	
Output 0	highest(place(loc_2(stateid('montana'	
N-grams	highest(place(loc_2(stateid('montana'	
	highest(place(loc_2(stateid('montana'	
	highest(place(loc_2(stateid(
	highest(place(loc_2(stateid('montana'	
	highest(place(loc_2(stateid(
N-grams	highest(place(loc_2(stateid(
	place(loc_2(
	place(loc_2(stateid(
	place(loc_2(stateid('montana'	
	loc_2(stateid('montana'	

Sentence 176) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)		
Source	How many rivers does Colorado have	
Ref 0	count(river(loc_2(stateid('colorado'	
Output 0	count(river(loc_2(stateid('colorado' have	
N-grams	count(river(loc_2(stateid('colorado' have	
	count(river(loc_2(stateid('colorado'	
	count(river(loc_2(stateid(
	count(river(loc_2(stateid('colorado'	
	count(river(loc_2(stateid(
N-grams	count(river(loc_2(stateid(
	river(loc_2(
	river(loc_2(stateid(
	river(loc_2(stateid('colorado'	
	loc_2(stateid('colorado'	

Sentence 177) BLEU: 0.6435 (0.8571/0.6667/0.6/0.5)		
Source	What is the length of the longest river in the USA	
Ref 0	len(longest(river(loc_2(countryid('usa'	
Output 0	len(stateid(longest(river(loc_2(countryid('usa'	
N-grams	len(stateid(longest(river(loc_2(countryid('usa'	
	len(longest(river(loc_2(countryid('usa'	
	longest(river(loc_2(countryid(
	longest(river(loc_2(countryid('usa'	
	longest(river(loc_2(countryid(

	<div>river(loc_2(river(loc_2(countryid(river(loc_2(countryid('usa' loc_2(countryid('usa'</div>
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Sentence 178) BLEU: 0 (1/1/1/0)	
Source	What is the area of Alaska
Ref 0	area_1(stateid('alaska'
Output 0	area_1(stateid('alaska'
N-grams	<div>area_1(stateid('alaska' area_1(stateid('alaska' area_1(stateid(area_1(stateid('alaska' stateid('alaska'</div>

Sentence 179) BLEU: 0.6914 (1/0.8571/0.6667/0.4)	
Source	How many states have cities named Austin
Ref 0	count(state(loc_1(city(cityid('austin', _
Output 0	count(state(loc_1(city(cityid(cityid('austin', _
N-grams	<div>count(state(loc_1(city(cityid(cityid('austin', _ count(state(loc_1(city(cityid(cityid('austin', _ count(state(loc_1(city(cityid('austin', _ count(state(loc_1(city(cityid('austin', _ count(state(loc_1(city(cityid('austin', _ state(loc_1(state(loc_1(city(state(loc_1(city(cityid(loc_1(city(cityid(</div>

Sentence 180) BLEU: 0 (1/1/1/0)	
Source	Where is Springfield
Ref 0	loc_1(cityid('springfield', _
Output 0	loc_1(cityid('springfield',
N-grams	<div>loc_1(cityid('springfield', loc_1(cityid('springfield', loc_1(cityid(loc_1(cityid('springfield', cityid('springfield',</div>

Sentence 181) BLEU: 0 (0.6/0.25/0/0)	
Source	What state has the smallest urban population
Ref 0	smallest_one(population_1(state(all

Output 0	smallest(state(all urban population_1(
N-grams	smallest(state(all urban population_1(state(all population_1(state(all

Sentence 182) BLEU: 1 (1/1/1/1)	
Source	What is the smallest city in Alaska
Ref 0	smallest(city(loc_2(stateid('alaska'
Output 0	smallest(city(loc_2(stateid('alaska'
N-grams	smallest(city(loc_2(stateid('alaska' smallest(city(loc_2(stateid('alaska' smallest(city(loc_2(stateid(smallest(city(loc_2(stateid('alaska' smallest(city(loc_2(stateid(city(loc_2(city(loc_2(stateid(city(loc_2(stateid('alaska' loc_2(stateid('alaska'

Sentence 183) BLEU: 0.4111 (0.75/0.5714/0.3333/0.2)	
Source	What is the capital of the state with the largest population
Ref 0	capital(loc_2(largest_one(population_1(state(all
Output 0	capital(loc_2(stateid(the largest_one(population_1(state(all
N-grams	capital(loc_2(stateid(the largest_one(population_1(state(all capital(loc_2(largest_one(population_1(state(all capital(loc_2(largest_one(population_1(state(all largest_one(population_1(state(largest_one(population_1(state(all population_1(state(population_1(state(all

Sentence 184) BLEU: 0 (0.8/0.25/0/0)	
Source	Which state has the most rivers running through it
Ref 0	most(state(traverse_1(river(all
Output 0	Which state(traverse_1(most(river(
N-grams	Which state(traverse_1(most(river(state(traverse_1(most(river(state(traverse_1(

Sentence 185) BLEU: 0 (0.75/0.3333/0/0)	
Source	What is the least populous state

Ref 0	smallest_one(population_1(state(all
Output 0	smallest_one(populous state(all
	smallest_one(populous state(all
N-grams	smallest_one(state(all state(all

Sentence 186) BLEU: 0 (0.6667/0/0/0)	
Source	What length is the Mississippi
Ref 0	len(riverid('mississippi'
Output 0	len(all 'mississippi'
N-grams	len(all 'mississippi' len('mississippi'

Sentence 187) BLEU: 0 (1/0.5/0.3333/0)	
Source	How long is the Mississippi river
Ref 0	len(river(riverid('mississippi'
Output 0	len(riverid(river(riverid ('mississippi'
N-grams	len(riverid(river(riverid('mississippi' len(riverid(river(riverid('mississippi' river(riverid('mississippi' river(riverid('mississippi'

Sentence 188) BLEU: 1 (1/1/1/1)	
Source	What state that borders Texas has the highest population
Ref 0	largest_one(population_1(state(next_to_2(stateid('texas'
Output 0	largest_one(population_1(state(next_to_2(stateid('texas'
N-grams	largest_one(population_1(state(next_to_2(stateid('texas' largest_one(population_1(state(next_to_2(stateid('texas' largest_one(population_1(state(next_to_2(stateid('texas' largest_one(population_1(state(next_to_2(stateid(largest_one(population_1(state(next_to_2(population_1(state(next_to_2(stateid('texas' population_1(state(next_to_2(population_1(state(next_to_2(stateid(state(next_to_2(stateid(state(next_to_2(stateid('texas'

Sentence 189) BLEU: 0 (0.5/0.3333/0/0)	
Source	How many people live in Minneapolis Minnesota
Ref 0	population_1(cityid('minneapolis', 'mn'
Output 0	population_1(cityid(Minneapolis 'minnesota'

N-grams	population_1(cityid(Minneapolis 'minnesota'
	population_1(cityid(
	population_1(cityid(

Sentence 190) BLEU: 0.5133 (0.7778/0.625/0.4286/0.3333)	
Source	What states border the states with the most cities
Ref 0	state(next_to_2(most(state(loc_1(city(all
Output 0	state(next_to_2(stateid(the most(state(loc_1(city(all
N-grams	state(next_to_2(stateid(the most(state(loc_1(city(all
	state(next_to_2(most(state(loc_1(city(all
	state(next_to_2(most(state(loc_1(city(
	most(state(loc_1(city(all
	most(state(loc_1(city(
	state(loc_1(
	state(loc_1(city(
	state(loc_1(city(all
	loc_1(city(all

Sentence 191) BLEU: 0 (0.25/0/0/0)	
Source	What is the population of Boston Massachusetts
Ref 0	population_1(cityid('boston', 'ma'
Output 0	population_1(stateid(Boston 'massachusetts'
N-grams	population_1(stateid(Boston 'massachusetts'
	population_1(

Sentence 192) BLEU: 1 (1/1/1/1)	
Source	How many major cities are there in Oregon
Ref 0	count(major(city(loc_2(stateid('oregon'
Output 0	count(major(city(loc_2(stateid('oregon'
N-grams	count(major(city(loc_2(stateid('oregon'
	count(major(city(loc_2(stateid('oregon'
	count(major(city(loc_2(stateid('oregon'
	count(major(city(loc_2(stateid(
	count(major(city(loc_2(
	major(city(loc_2(stateid('oregon'
	major(city(loc_2(
	major(city(loc_2(stateid(
	city(loc_2(stateid(
	city(loc_2(stateid('oregon'

Sentence 193) BLEU: 0.6148 (0.7143/0.6667/0.6/0.5)	
Source	What is the elevation of the highest point in the USA

Ref 0	elevation_1(highest(place(loc_2(countryid('usa'
Output 0	elevation stateid(highest(place(loc_2(countryid('usa'
N-grams	elevation stateid(highest(place(loc_2(countryid('usa' highest(place(loc_2(countryid('usa' highest(place(loc_2(countryid(highest(place(loc_2(countryid('usa' highest(place(loc_2(countryid(place(loc_2(place(loc_2(countryid(place(loc_2(countryid('usa' loc_2(countryid('usa'

Sentence 194) BLEU: 0.5623 (0.875/0.5714/0.5/0.4)	
Source	What are the populations of all the major cities in Montana
Ref 0	population_1(major(city(loc_2(stateid('montana'
Output 0	population_1(stateid(all major(city(loc_2(stateid('montana'
N-grams	population_1(stateid(all major(city(loc_2(stateid('montana' population_1(stateid(major(city(loc_2(stateid('montana' major(city(loc_2(stateid('montana' major(city(loc_2(major(city(loc_2(stateid(city(loc_2(city(loc_2(stateid(city(loc_2(stateid('montana' loc_2(stateid('montana'

Sentence 195) BLEU: 0 (1/0.75/0.3333/0)	
Source	How big is North Dakota
Ref 0	size(stateid('north dakota'
Output 0	size(stateid(stateid('north dakota'
N-grams	size(stateid(stateid('north dakota' size(stateid(stateid('north dakota' size(stateid(stateid('north dakota' 'north 'north dakota'

Sentence 196) BLEU: 0.4111 (0.75/0.5714/0.3333/0.2)	
Source	What states border states that the Ohio runs through
Ref 0	state(next_to_2(state(traverse_1(riverid('ohio'
Output 0	state(next_to_2(stateid(that state(traverse_1(riverid('ohio'
N-grams	state(next_to_2(stateid(that state(traverse_1(riverid('ohio'

state(next_to_2(state(traverse_1(riverid('ohio'
state(next_to_2(state(traverse_1(riverid('ohio'
	state(traverse_1(riverid(
	state(traverse_1(riverid('ohio'
	traverse_1(riverid(
	traverse_1(riverid('ohio'

Sentence 197) BLEU: 0 (0.5556/0.25/0.1429/0)

Source	How many states border at least one other state
Ref 0	count(state(next_to_2(state(all
Output 0	count(state(next_to_2(stateid(at least all other state(
N-grams	count(state(next_to_2(stateid(at least all other state(count(state(next_to_2(all state(count(state(count(state(next_to_2(state(next_to_2(

Sentence 198) BLEU: 1 (1/1/1/1)

Source	What states border Georgia
Ref 0	state(next_to_2(stateid('georgia'
Output 0	state(next_to_2(stateid('georgia'
N-grams	state(next_to_2(stateid('georgia' state(next_to_2(stateid('georgia' state(next_to_2(stateid('georgia' state(next_to_2(stateid(state(next_to_2(stateid('georgia' next_to_2(stateid(next_to_2(stateid('georgia'

Sentence 199) BLEU: 0 (0.7143/0.3333/0.2/0)

Source	Where is the most populated area of New Mexico
Ref 0	largest_one(population_1(city(loc_2(stateid('new mexico'
Output 0	loc_1(loc_2(largest_one(area_1(stateid('new mexico'
N-grams	loc_1(loc_2(largest_one(area_1(stateid('new mexico' loc_2(largest_one(stateid('new mexico' stateid('new stateid('new mexico' 'new mexico'

Sentence 200) BLEU: 1 (1/1/1/1)

Source	What river runs through Virginia
Ref 0	river(traverse_2(stateid('virginia'

Output 0	river(traverse_2(stateid('virginia'
	river(traverse_2(stateid('virginia'
N-grams	river(traverse_2(stateid('virginia'
	river(traverse_2(stateid('virginia'
	traverse_2(stateid(
	traverse_2(stateid('virginia'

Sentence 201) BLEU: 1 (1/1/1/1)	
Source	What is the capital of Indiana
Ref 0	capital(loc_2(stateid('indiana'
Output 0	capital(loc_2(stateid('indiana'
N-grams	capital(loc_2(stateid('indiana'
	capital(loc_2(stateid('indiana'
	capital(loc_2(stateid('indiana'
	capital(loc_2(stateid('indiana'
	loc_2(stateid(
	loc_2(stateid('indiana'

Sentence 202) BLEU: 0.6687 (0.8/0.75/0.6667/0.5)	
Source	Which states does the Mississippi run through
Ref 0	state(traverse_1(riverid('mississippi'
Output 0	state(traverse_1(riverid('mississippi' through
N-grams	state(traverse_1(riverid('mississippi' through
	state(traverse_1(riverid('mississippi'
	state(traverse_1(riverid('mississippi'
	state(traverse_1(riverid(
	traverse_1(riverid(
	traverse_1(riverid('mississippi'

Sentence 203) BLEU: 0 (0.7778/0.5/0.2857/0)	
Source	How many people live in the biggest city in New York state
Ref 0	population_1(largest(city(loc_2(state(stateid('new york'
Output 0	population_1(cityid(largest(city(loc_2(stateid('new york' state
N-grams	population_1(cityid(largest(city(loc_2(stateid('new york' state
	population_1(largest(city(loc_2(stateid('new york'
	largest(city(stateid('new
	largest(city(loc_2(stateid('new york'
	city(loc_2('new york'

Sentence 204) BLEU: 1 (1/1/1/1)	
Source	Which state has the most people
Ref 0	largest_one(population_1(state(all
Output 0	largest_one(population_1(state(all
N-grams	largest_one(population_1(state(all
	largest_one(population_1(state(all
	largest_one(population_1(state(all
	largest_one(population_1(state(all

Sentence 205) BLEU: 0 (0.3333/0/0/0)	
Source	What is the area of Seattle
Ref 0	area_1(cityid('seattle', _
Output 0	area_1(stateid(Seattle
N-grams	area_1(stateid(Seattle area_1(

Sentence 206) BLEU: 0 (0.8/0.5/0.3333/0)	
Source	What states are next to the Mississippi
Ref 0	state(next_to_2(stateid('mississippi'
Output 0	state(next_to_2(stateid(the 'mississippi'
N-grams	state(next_to_2(stateid(the 'mississippi'
	state(next_to_2(stateid('mississippi'
	state(next_to_2(
	state(next_to_2(stateid(

Sentence 207) BLEU: 0 (0.8333/0.4/0.25/0)	
Source	How long is the Rio Grande river
Ref 0	len(river(riverid('rio grande'
Output 0	len(riverid('rio grande' river(all
N-grams	len(riverid('rio grande' river(all
	len(riverid('rio grande' river(
	riverid('rio
	riverid('rio grande'

Sentence 208) BLEU: 0 (0.8/0.5/0/0)	
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Source	Show major cities in Colorado
Ref 0	major(city(loc_2(stateid('colorado'
Output 0	major(city(Show stateid('colorado'
N-grams	major(city(Show stateid('colorado'
	major(city(stateid('colorado'
	major(city(stateid('colorado'

Sentence 209) BLEU: 0.5 (0.875/0.7143/0.5/0.2)

Source	What is the highest point of the state with the largest area
Ref 0	highest(place(loc_2(largest_one(area_1(state(all
Output 0	highest(place(loc_2(stateid(largest_one(area_1(state(all
N-grams	highest(place(loc_2(stateid(largest_one(area_1(state(all
	highest(place(loc_2(largest_one(area_1(state(all
	highest(place(largest_one(area_1(state(all
	highest(place(loc_2(largest_one(area_1(state(
	place(loc_2(largest_one(area_1(state(all

Sentence 210) BLEU: 0 (0.25/0/0/0)

Source	What is the population of Seattle Washington
Ref 0	population_1(cityid('seattle', 'wa'
Output 0	population_1(stateid(Seattle 'washington'
N-grams	population_1(stateid(Seattle 'washington'

Sentence 211) BLEU: 1 (1/1/1/1)

Source	What are the major cities in Vermont
Ref 0	major(city(loc_2(stateid('vermont'
Output 0	major(city(loc_2(stateid('vermont'
N-grams	major(city(loc_2(stateid('vermont'
	major(city(loc_2(stateid('vermont'
	major(city(loc_2(stateid(
	major(city(loc_2(stateid('vermont'
	major(city(loc_2(stateid(

Sentence 212) BLEU: 1 (1/1/1/1)

Source	Which state has the greatest density
Ref 0	largest_one(density_1(state(all
Output 0	largest_one(density_1(state(all
N-grams	largest_one(density_1(state(all largest_one(density_1(state(all largest_one(density_1(state(all largest_one(density_1(state(largest_one(density_1(state(all density_1(state(density_1(state(all

Sentence 213) BLEU: 1 (1/1/1/1)	
Source	What is the area of South Carolina
Ref 0	area_1(stateid('south carolina'
Output 0	area_1(stateid('south carolina'
N-grams	area_1(stateid('south carolina' area_1(stateid('south carolina' area_1(stateid('south carolina' area_1(stateid('south area_1(stateid('south carolina' stateid('south stateid('south carolina'

Sentence 214) BLEU: 1 (1/1/1/1)	
Source	What is the biggest city in Georgia
Ref 0	largest(city(loc_2(stateid('georgia'
Output 0	largest(city(loc_2(stateid('georgia'
N-grams	largest(city(loc_2(stateid('georgia' largest(city(loc_2(stateid('georgia' largest(city(loc_2(stateid(largest(city(loc_2(stateid('georgia' largest(city(loc_2(stateid(city(loc_2(city(loc_2(stateid(city(loc_2(stateid('georgia' loc_2(stateid('georgia'

Sentence 215) BLEU: 1 (1/1/1/1)	
Source	What is the longest river that flows through a state that borders Indiana
Ref 0	longest(river(traverse_2(state(next_to_2(stateid('indiana'
Output 0	longest(river(traverse_2(state(next_to_2(stateid('indiana'
N-grams	

longest(river(traverse_2(state(next_to_2(stateid('indiana'

longest(river(traverse_2(state(next_to_2(stateid('indiana'

longest(river(traverse_2(state(next_to_2(stateid(

longest(river(traverse_2(state(next_to_2(stateid('indiana'

longest(river(traverse_2(state(next_to_2(stateid('indiana'

river(traverse_2(state(next_to_2(stateid(

river(traverse_2(state(

river(traverse_2(state(next_to_2(

traverse_2(state(next_to_2(

traverse_2(state(next_to_2(stateid(

state(next_to_2(stateid('indiana'

Sentence 216) BLEU: 0 (1/1/1/0)

Source	What is the biggest state
Ref 0	largest(state(all
Output 0	largest(state(all
N-grams	largest(state(all largest(state(all largest(state(largest(state(all state(all

Sentence 217) BLEU: 0 (0.5714/0.3333/0.2/0)

Source	What is the area of the state with the capital Albany
Ref 0	area_1(state(loc_1(capital(cityid('albany', _
Output 0	area_1(stateid(loc_2(state(loc_1(capital(Albany
N-grams	area_1(stateid(loc_2(state(loc_1(capital(Albany area_1(state(loc_1(capital(state(loc_1(state(loc_1(capital(loc_1(capital(

Sentence 218) BLEU: 0 (0.75/0.6667/0.5/0)

Source	How many people live in San Francisco
Ref 0	population_1(cityid('san francisco', _
Output 0	population_1(cityid('san Francisco
N-grams	population_1(cityid('san Francisco population_1(cityid('san population_1(cityid(population_1(cityid('san cityid('san

Sentence 219) BLEU: 1 (1/1/1/1)

Source	What is the capital of New York
Ref 0	capital(loc_2(stateid('new york'
Output 0	capital(loc_2(stateid('new york'
N-grams	capital(loc_2(stateid('new york' capital(loc_2(stateid('new york' capital(loc_2(stateid('new capital(loc_2(stateid('new york' capital(loc_2(stateid('new loc_2(stateid(loc_2(stateid('new loc_2(stateid('new york' stateid('new york'

Sentence 220) BLEU: 0 (1/1/1/0)	
Source	What is the population of Maine
Ref 0	population_1(stateid('maine'
Output 0	population_1(stateid('maine'
N-grams	population_1(stateid('maine' population_1(stateid('maine' population_1(stateid(population_1(stateid('maine' stateid('maine'

Sentence 221) BLEU: 0 (0.6667/0.4/0.25/0)	
Source	How many people are in the state of Nevada
Ref 0	population_1(state(stateid('nevada'
Output 0	population_1(cityid(loc_2(state(stateid('nevada'
N-grams	population_1(cityid(loc_2(state(stateid('nevada' population_1(state(stateid('nevada' state(stateid(state(stateid('nevada' stateid('nevada'

Sentence 222) BLEU: 0.4671 (1/0.7143/0.3333/0.2)	
Source	What is the capital of the state that borders the state that borders Texas
Ref 0	capital(loc_2(state(next_to_2(state(next_to_2(stateid('texas'
Output 0	state(next_to_2(state(next_to_2(capital(loc_2(stateid('texas'
N-grams	state(next_to_2(state(next_to_2(capital(loc_2(stateid('texas' state(next_to_2(state(next_to_2(capital(loc_2(stateid('texas' state(next_to_2(state(next_to_2(capital(loc_2(stateid('texas' state(next_to_2(state(

state(next_to_2(state(next_to_2(next_to_2(state(next_to_2(state(next_to_2(
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Sentence 223) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)

Source	Which state is Mount McKinley in
Ref 0	state(loc_1(placeid('mount mckinley'
Output 0	state(loc_1(placeid('mount mckinley' in
N-grams	state(loc_1(placeid('mount mckinley' in state(loc_1(placeid('mount mckinley' state(loc_1(placeid('mount state(loc_1(placeid('mount mckinley' state(loc_1(placeid('mount loc_1(placeid(loc_1(placeid('mount loc_1(placeid('mount mckinley' placeid('mount mckinley'

Sentence 224) BLEU: 0.4889 (0.8571/0.6667/0.4/0.25)

Source	What major cities are located in Pennsylvania
Ref 0	major(city(loc_2(stateid('pennsylvania'
Output 0	major(city(loc_2(stateid(located stateid('pennsylvania'
N-grams	major(city(loc_2(stateid(located stateid('pennsylvania' major(city(loc_2(stateid(stateid('pennsylvania' major(city(loc_2(stateid('pennsylvania' major(city(loc_2(major(city(loc_2(stateid(city(loc_2(city(loc_2(stateid(

Sentence 225) BLEU: 0 (1/1/1/0)

Source	What is the population of Montana
Ref 0	population_1(stateid('montana'
Output 0	population_1(stateid('montana'
N-grams	population_1(stateid('montana' population_1(stateid('montana' population_1(stateid(population_1(stateid('montana' stateid('montana'

Sentence 226) BLEU: 0 (0.625/0.4286/0.1667/0)

Source	What is the largest state traversed by the Mississippi river
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Ref 0	largest(state(traverse_1(river(riverid('mississippi'
Output 0	largest(state(all traversed by river(riverid('mississippi'
N-grams	largest(state(all traversed by river(riverid('mississippi' largest(state(river(riverid('mississippi' largest(state(river(riverid('mississippi' riverid('mississippi'

Sentence 227) BLEU: 1 (1/1/1/1)	
Source	What is the longest river in the states that border Nebraska
Ref 0	longest(river(loc_2(state(next_to_2(stateid('nebraska'
Output 0	longest(river(loc_2(state(next_to_2(stateid('nebraska'
N-grams	longest(river(loc_2(state(next_to_2(stateid('nebraska' longest(river(loc_2(state(next_to_2(stateid('nebraska' longest(river(loc_2(state(next_to_2(stateid('nebraska' longest(river(loc_2(state(next_to_2(stateid('nebraska' longest(river(loc_2(state(next_to_2(stateid('nebraska' river(loc_2(state(next_to_2(stateid('nebraska' river(loc_2(state(next_to_2(stateid('nebraska' loc_2(state(next_to_2(stateid('nebraska' loc_2(state(next_to_2(stateid('nebraska'

Sentence 228) BLEU: 1 (1/1/1/1)	
Source	What is the biggest city in Oregon
Ref 0	largest(city(loc_2(stateid('oregon'
Output 0	largest(city(loc_2(stateid('oregon'
N-grams	largest(city(loc_2(stateid('oregon' largest(city(loc_2(stateid('oregon' largest(city(loc_2(stateid('oregon' largest(city(loc_2(stateid('oregon' largest(city(loc_2(stateid('oregon' city(loc_2(stateid('oregon' city(loc_2(stateid('oregon' loc_2(stateid('oregon'

Sentence 229) BLEU: 1 (1/1/1/1)	
Source	What state is Austin in
Ref 0	state(loc_1(cityid('austin', _
Output 0	state(loc_1(cityid('austin', _

N-grams	state(loc_1(cityid('austin', _ state(loc_1(cityid('austin', _ state(loc_1(cityid('austin', state(loc_1(cityid('austin', _ state(loc_1(cityid('austin', loc_1(cityid(loc_1(cityid('austin', loc_1(cityid('austin', _ cityid('austin', _
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Sentence 230) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)	
Source	How many rivers does Alaska have
Ref 0	count(river(loc_2(stateid('alaska'
Output 0	count(river(loc_2(stateid('alaska' have
N-grams	count(river(loc_2(stateid('alaska' have count(river(loc_2(stateid('alaska' count(river(loc_2(stateid(count(river(loc_2(stateid('alaska' count(river(loc_2(stateid(river(loc_2(river(loc_2(stateid(river(loc_2(stateid('alaska' loc_2(stateid('alaska'

Sentence 231) BLEU: 0.3799 (0.7/0.5556/0.375/0.1429)	
Source	Which is the lowest point of the states that the Mississippi runs through
Ref 0	lowest(place(loc_2(state(traverse_1(riverid('mississippi'
Output 0	lowest(place(loc_2(stateid(_ that state(traverse_1(riverid('mississippi'
N-grams	lowest(place(loc_2(stateid(_ that state(traverse_1(riverid('mississippi' lowest(place(loc_2(state(traverse_1(riverid('mississippi' lowest(place(state(traverse_1(riverid('mississippi' lowest(place(loc_2(state(traverse_1(riverid(place(loc_2(state(traverse_1(riverid('mississippi' traverse_1(riverid(traverse_1(riverid('mississippi'

Sentence 232) BLEU: 0 (0.25/0/0/0)	
Source	Which state has the biggest population
Ref 0	largest_one(population_1(state(all
Output 0	state(loc_1(largest(population
N-grams	state(loc_1(largest(population state(

Sentence 233) BLEU: 0 (0.5/0/0/0)	
Source	Which states border no other states
Ref 0	exclude(state(all , next_to_2(state(all
Output 0	state(next_to_2(stateid(no other state(
N-grams	state(next_to_2(stateid(no other state(state(next_to_2(state(

Sentence 234) BLEU: 1 (1/1/1/1)	
Source	What is the longest river in California
Ref 0	longest(river(loc_2(stateid('california'
Output 0	longest(river(loc_2(stateid('california'
N-grams	longest(river(loc_2(stateid('california' longest(river(loc_2(stateid('california' longest(river(loc_2(stateid('california' longest(river(loc_2(stateid('california' longest(river(loc_2(stateid(river(loc_2(river(loc_2(stateid(river(loc_2(stateid('california' loc_2(stateid('california'

Sentence 235) BLEU: 0 (1/1/1/0)	
Source	Where is Massachusetts
Ref 0	loc_1(stateid('massachusetts'
Output 0	loc_1(stateid('massachusetts'
N-grams	loc_1(stateid('massachusetts' loc_1(stateid('massachusetts' loc_1(stateid(loc_1(stateid('massachusetts' stateid('massachusetts'

Sentence 236) BLEU: 0 (1/1/1/0)	
Source	What is the longest river
Ref 0	longest(river(all
Output 0	longest(river(all
N-grams	longest(river(all longest(river(all longest(river(longest(river(all river(all

Sentence 237) BLEU: 0 (0.3333/0.2/0/0)	
Source	Name all the lakes of US
Ref 0	lake(loc_2(countryid('usa'
Output 0	Name all lake(loc_2(stateid(US
N-grams	Name all lake(loc_2(stateid(US lake(loc_2(lake(loc_2(

Sentence 238) BLEU: 0.4463 (0.8889/0.625/0.4286/0.1667)	
Source	What states in the United States have a city of Springfield
Ref 0	intersection(state(loc_2(countryid('usa' , loc_1(city(cityid('springfield', _
Output 0	state(loc_1(city(cityid('springfield', loc_2(countryid('usa' What
N-grams	state(loc_1(city(cityid('springfield', loc_2(countryid('usa' What state(loc_1(city(cityid('springfield', loc_2(countryid('usa' loc_1(city(cityid('springfield', loc_2(countryid(loc_1(city(cityid(loc_2(countryid('usa' loc_1(city(cityid('springfield', countryid('usa' city(cityid(city(cityid('springfield',

Sentence 239) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)	
Source	What river traverses the most states
Ref 0	most(river(traverse_2(state(all
Output 0	What most(river(traverse_2(state(all
N-grams	What most(river(traverse_2(state(all most(river(traverse_2(state(all most(river(traverse_2(state(most(river(traverse_2(state(all most(river(traverse_2(state(river(traverse_2(river(traverse_2(state(river(traverse_2(state(all traverse_2(state(all

Sentence 240) BLEU: 0 (0.6667/0.5/0/0)	
Source	How many people live in Riverside
Ref 0	population_1(cityid('riverside', _
Output 0	population_1(cityid(Riverside
N-grams	population_1(cityid(Riverside population_1(cityid(population_1(cityid(

Sentence 241) BLEU: 1 (1/1/1/1)

Source	What is the capital of the largest state
Ref 0	capital(loc_2(largest(state(all
Output 0	capital(loc_2(largest(state(all
N-grams	capital(loc_2(largest(state(all capital(loc_2(largest(state(all capital(loc_2(largest(state(capital(loc_2(largest(state(all capital(loc_2(largest(state(loc_2(largest(loc_2(largest(state(loc_2(largest(state(all largest(state(all

Sentence 242) BLEU: 0 (0.5/0.3333/0/0)

Source	Which is the smallest state
Ref 0	smallest(state(all
Output 0	smallest(state(Which _
N-grams	smallest(state(Which _ smallest(state(smallest(state(

Sentence 243) BLEU: 1 (1/1/1/1)

Source	What is the population of the capital of the smallest state
Ref 0	population_1(capital(loc_2(smallest(state(all
Output 0	population_1(capital(loc_2(smallest(state(all
N-grams	population_1(capital(loc_2(smallest(state(all population_1(capital(loc_2(smallest(state(all population_1(capital(loc_2(smallest(state(all population_1(capital(loc_2(smallest(state(population_1(capital(loc_2(smallest(capital(loc_2(smallest(state(all capital(loc_2(smallest(capital(loc_2(smallest(state(loc_2(smallest(state(loc_2(smallest(state(all

Sentence 244) BLEU: 0 (0.6667/0.2/0/0)

Source	What is the combined area of all 50 states
Ref 0	sum(area_1(state(all
Output 0	sum(area_1(stateid(all 50 state(

N-grams	sum(area_1(stateid(all 50 state(sum(area_1(all state(sum(area_1(
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Sentence 245) BLEU: 0 (0.6/0.5/0.3333/0)		
Source	What rivers run through West Virginia	
Ref 0	river(traverse_2(stateid('west virginia'	
Output 0	river(traverse_2(stateid(West 'virginia'	
N-grams	river(traverse_2(stateid(West 'virginia'	
	river(traverse_2(stateid(
	river(traverse_2(
	river(traverse_2(stateid(traverse_2(stateid(

Sentence 246) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)		
Source	Which states does the Missouri river run through	
Ref 0	state(traverse_1(river(riverid('missouri'	
Output 0	state(traverse_1(river(riverid('missouri' through	
N-grams	state(traverse_1(river(riverid('missouri' through	
	state(traverse_1(river(riverid('missouri'	
	state(traverse_1(river(riverid(
	state(traverse_1(river(riverid('missouri'	
	state(traverse_1(river(riverid(traverse_1(river(traverse_1(river(riverid(traverse_1(river(riverid('missouri' river(riverid('missouri'	

Sentence 247) BLEU: 1 (1/1/1/1)		
Source	Which state borders most states	
Ref 0	most(state(next_to_2(state(all	
Output 0	most(state(next_to_2(state(all	
N-grams	most(state(next_to_2(state(all	
	most(state(next_to_2(state(all	
	most(state(next_to_2(state(
	most(state(next_to_2(state(all	
	most(state(next_to_2(state(state(next_to_2(
	state(next_to_2(state(state(next_to_2(state(all next_to_2(state(all	

Sentence 248) BLEU: 0.6148 (0.7143/0.6667/0.6/0.5)		
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Source	What cities in Texas have the highest number of citizens
Ref 0	largest_one(population_1(city(loc_2(stateid('texas'
Output 0	highest(number population_1(city(loc_2(stateid('texas'
N-grams	highest(number population_1(city(loc_2(stateid('texas' population_1(city(loc_2(stateid('texas' population_1(city(loc_2(stateid(population_1(city(loc_2(stateid('texas' population_1(city(loc_2(stateid(city(loc_2(city(loc_2(stateid(city(loc_2(stateid('texas' loc_2(stateid('texas'

Sentence 249) BLEU: 0.5411 (0.75/0.5714/0.5/0.4)	
Source	What state is the state with the most rivers
Ref 0	state(most(state(loc_1(river(all
Output 0	state(next_to_2(stateid(most(state(loc_1(river(all
N-grams	state(next_to_2(stateid(most(state(loc_1(river(all state(most(state(loc_1(river(all most(state(loc_1(river(most(state(loc_1(river(all most(state(loc_1(river(state(loc_1(state(loc_1(river(state(loc_1(river(all loc_1(river(all

Sentence 250) BLEU: 1 (1/1/1/1)	
Source	What state borders New York
Ref 0	state(next_to_2(stateid('new york'
Output 0	state(next_to_2(stateid('new york'
N-grams	state(next_to_2(stateid('new york' state(next_to_2(stateid('new york' state(next_to_2(stateid('new state(next_to_2(stateid('new york' state(next_to_2(stateid('new next_to_2(stateid(next_to_2(stateid('new next_to_2(stateid('new york' stateid('new york'

Sentence 251) BLEU: 0 (0.6/0.5/0.3333/0)	

Source	What is the longest river in the US
Ref 0	longest(river(loc_2(countryid('usa'
Output 0	longest(river(loc_2(stateid(US
N-grams	longest(river(loc_2(stateid(US longest(river(loc_2(longest(river(longest(river(loc_2(river(loc_2(

Sentence 252) BLEU: 1 (1/1/1/1)	
Source	What states border Arkansas
Ref 0	state(next_to_2(stateid('arkansas'
Output 0	state(next_to_2(stateid('arkansas'
N-grams	state(next_to_2(stateid('arkansas' state(next_to_2(stateid('arkansas' state(next_to_2(stateid('arkansas' state(next_to_2(stateid(state(next_to_2(stateid('arkansas' next_to_2(stateid(next_to_2(stateid('arkansas'

Sentence 253) BLEU: 1 (1/1/1/1)	
Source	What state has the lowest population density
Ref 0	smallest_one(density_1(state(all
Output 0	smallest_one(density_1(state(all
N-grams	smallest_one(density_1(state(all smallest_one(density_1(state(all smallest_one(density_1(state(all smallest_one(density_1(state(smallest_one(density_1(state(all density_1(state(density_1(state(all

Sentence 254) BLEU: 0 (0.3333/0.2/0/0)	
Source	What is the maximum elevation of San Francisco
Ref 0	highest(place(loc_2(cityid('san francisco', _
Output 0	maximum place(loc_2(stateid(San Francisco
N-grams	maximum place(loc_2(stateid(San Francisco place(loc_2(place(loc_2(

Sentence 255) BLEU: 0.7071 (1/0.8333/0.6/0.5)	
Source	How many states have a city named Springfield
Ref 0	count(state(loc_1(city(cityid('springfield', _
Output 0	count(state(loc_1(city(cityid(cityid('springfield',
N-grams	count(state(loc_1(city(cityid(cityid('springfield',
	count(state(loc_1(city(cityid(cityid('springfield',
	count(state(loc_1(city('springfield',
	count(state(loc_1(city(cityid(

Sentence 256) BLEU: 1 (1/1/1/1)	
Source	What are the major cities in Oklahoma
Ref 0	major(city(loc_2(stateid('oklahoma'
Output 0	major(city(loc_2(stateid('oklahoma'
N-grams	major(city(loc_2(stateid('oklahoma'
	major(city(loc_2(stateid('oklahoma'
	major(city(loc_2(stateid(
	major(city(loc_2(stateid('oklahoma'

Sentence 257) BLEU: 0 (0.8/0.5/0.3333/0)	
Source	What is the height of Mount McKinley
Ref 0	elevation_1(placeid('mount mckinley'
Output 0	elevation_1(stateid(placeid('mount mckinley'
N-grams	elevation_1(stateid(placeid('mount mckinley'
	elevation_1(placeid('mount mckinley'
	placeid('mount
	placeid('mount mckinley'

Sentence 258) BLEU: 0 (0.4/0.25/0/0)	
Source	How many states are there
Ref 0	count(state(all
Output 0	

N-grams	count(state(loc_2(stateid(there
	count(state(loc_2(stateid(there
	count(state(
	count(state(

Sentence 259) BLEU: 0.5946 (0.875/0.7143/0.5/0.4)	
Source	What is the highest point in the state with the most rivers
Ref 0	highest(place(loc_2(most(state(traverse_1(river(all
Output 0	highest(place(loc_2(most(state(loc_1(river(all
N-grams	highest(place(loc_2(most(state(loc_1(river(all
	highest(place(loc_2(most(state(river(all
	highest(place(loc_2(most(river(all
	highest(place(loc_2(most(state(
	highest(place(loc_2(most(
	highest(place(loc_2(most(

Sentence 260) BLEU: 1 (1/1/1/1)	
Source	Which rivers run through states bordering New Mexico
Ref 0	river(traverse_2(state(next_to_2(stateid('new mexico'
Output 0	river(traverse_2(state(next_to_2(stateid('new mexico'
N-grams	river(traverse_2(state(next_to_2(stateid('new mexico'
	river(traverse_2(state(next_to_2(stateid('new mexico'
	river(traverse_2(state(next_to_2(stateid('new
	river(traverse_2(state(next_to_2(stateid('new mexico'
	river(traverse_2(state(next_to_2(stateid('new mexico'
	traverse_2(state(next_to_2(stateid('new

Sentence 261) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)	
Source	What are the major lakes in United States
Ref 0	major(lake(loc_2(countryid('usa'
Output 0	What major(lake(loc_2(countryid('usa'
N-grams	What major(lake(loc_2(countryid('usa'

	major(lake(loc_2(countryid('usa' major(lake(loc_2(countryid(lake(loc_2(lake(loc_2(countryid(lake(loc_2(countryid('usa' loc_2(countryid('usa'
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Sentence 262) BLEU: 0 (0.6667/0.4/0/0)	
Source	Which river goes through the most states
Ref 0	most(river(traverse_2(state(all
Output 0	most(river(goes traverse_1(state(all
N-grams	most(river(goes traverse_1(state(all
	most(river(state(all
	most(river(state(all

Sentence 263) BLEU: 0 (0.7143/0.3333/0/0)	
Source	What is the smallest state that borders the most states
Ref 0	smallest(most(state(next_to_2(state(all
Output 0	smallest(state(next_to_2(stateid(the most(state(
N-grams	smallest(state(next_to_2(stateid(the most(state(
	smallest(state(next_to_2(most(state(
	state(next_to_2(most(state(

Sentence 264) BLEU: 1 (1/1/1/1)	
Source	What states border states that border Colorado
Ref 0	state(next_to_2(state(next_to_2(stateid('colorado'
Output 0	state(next_to_2(state(next_to_2(stateid('colorado'
N-grams	state(next_to_2(state(next_to_2(stateid('colorado'
	state(next_to_2(state(next_to_2(stateid('colorado'
	state(next_to_2(state(next_to_2(stateid('colorado'
	state(next_to_2(state(next_to_2(stateid(
	state(next_to_2(state(next_to_2(
	next_to_2(state(next_to_2(stateid('colorado'
	next_to_2(state(next_to_2(
	next_to_2(state(next_to_2(stateid(
	state(next_to_2(stateid(
	state(next_to_2(stateid('colorado'

Sentence 265) BLEU: 0.7598 (0.8333/0.8/0.75/0.6667)	
Source	What are the major cities of the United States
Ref 0	major(city(loc_2(countryid('usa'

Output 0	What major(city(loc_2(countryid('usa'
N-grams	What major(city(loc_2(countryid('usa' major(city(loc_2(countryid('usa' major(city(loc_2(countryid(major(city(loc_2(countryid('usa' major(city(loc_2(countryid(city(loc_2(city(loc_2(countryid(city(loc_2(countryid('usa' loc_2(countryid('usa'

Sentence 266) BLEU: 0.8091 (0.8571/0.8333/0.8/0.75)	
Source	What states have a city named Austin
Ref 0	state(loc_1(city(cityid('austin', _
Output 0	What state(loc_1(city(cityid('austin', _
N-grams	What state(loc_1(city(cityid('austin', _ state(loc_1(city(cityid('austin', _ state(loc_1(city(cityid('austin', _ state(loc_1(city(cityid('austin', state(loc_1(city(cityid(loc_1(city(cityid('austin', _ loc_1(city(cityid(loc_1(city(cityid('austin', city(cityid('austin', city(cityid('austin', _

Sentence 267) BLEU: 0.8091 (0.8571/0.8333/0.8/0.75)	
Source	What state has the most major cities
Ref 0	most(state(loc_1(major(city(all
Output 0	What most(state(loc_1(major(city(all
N-grams	What most(state(loc_1(major(city(all most(state(loc_1(major(city(all most(state(loc_1(major(city(all most(state(loc_1(major(city(most(state(loc_1(major(state(loc_1(major(city(all state(loc_1(major(state(loc_1(major(city(loc_1(major(city(loc_1(major(city(all

Sentence 268) BLEU: 0 (0.5714/0.3333/0.2/0)	
Source	What is the population density in the state with capital Austin

Ref 0	density_1(state(loc_1(capital(cityid('austin', _
Output 0	density_1(stateid(loc_2(state(loc_1(capital(Austin
N-grams	density_1(stateid(loc_2(state(loc_1(capital(Austin density_1(state(loc_1(capital(state(loc_1(capital(state(loc_1(capital(loc_1(capital(

Sentence 269) BLEU: 1 (1/1/1/1)	
Source	What state has the largest population
Ref 0	largest_one(population_1(state(all
Output 0	largest_one(population_1(state(all
N-grams	largest_one(population_1(state(all largest_one(population_1(state(all largest_one(population_1(state(all largest_one(population_1(state(largest_one(population_1(state(all population_1(state(population_1(state(all

Sentence 270) BLEU: 0 (0.3333/0/0/0)	
Source	What is the population of Denver
Ref 0	population_1(cityid('denver', _
Output 0	population_1(stateid(Denver
N-grams	population_1(stateid(Denver population_1(

Sentence 271) BLEU: 0 (0.6/0.25/0/0)	
Source	What state has the largest urban population
Ref 0	largest_one(population_1(state(all
Output 0	largest(state(all urban population_1(
N-grams	largest(state(all urban population_1(state(all population_1(state(all

Sentence 272) BLEU: 1 (1/1/1/1)	
Source	How many rivers are in New York
Ref 0	count(river(loc_2(stateid('new york'
Output 0	count(river(loc_2(stateid('new york'
N-grams	count(river(loc_2(stateid('new york'

count(river(loc_2(stateid('new york'

count(river(loc_2(stateid('new york'

count(river(loc_2(stateid('new

count(river(loc_2(stateid(

river(loc_2(stateid('new york'

river(loc_2(stateid(

river(loc_2(stateid('new

loc_2(stateid('new

loc_2(stateid('new york'

Sentence 273)

BLEU: 0.3357 (0.8/0.4444/0.25/0.1429)

Source	How many states in the US does the shortest river run through
Ref 0	count(intersection(state(loc_2(countryid('usa' ,traverse_1(shortest(river(all
Output 0	count(state(loc_2(countryid('usa' How loc_2(shortest(river(traverse_2(
N-grams	count(state(loc_2(countryid('usa' How loc_2(shortest(river(traverse_2(count(state(loc_2(countryid('usa' shortest(river(state(loc_2(countryid('usa' shortest(river(state(loc_2(countryid(state(loc_2(countryid('usa' loc_2(countryid(loc_2(countryid('usa'

Sentence 274)

BLEU: 0 (1/1/1/0)

Source	What is the population of Maryland
Ref 0	population_1(stateid('maryland'
Output 0	population_1(stateid('maryland'
N-grams	population_1(stateid('maryland' population_1(stateid('maryland' population_1(stateid(population_1(stateid('maryland' stateid('maryland'

Sentence 275)

BLEU: 0 (0.75/0.6667/0.5/0)

Source	Which is the shortest river
Ref 0	shortest(river(all
Output 0	Which shortest(river(all
N-grams	Which shortest(river(all shortest(river(all shortest(river(shortest(river(all river(all

Sentence 276) BLEU: 0 (1/1/1/0)

Source	Where is Portland
Ref 0	loc_1(cityid('portland', _
Output 0	loc_1(cityid('portland',
N-grams	loc_1(cityid('portland', loc_1(cityid('portland', loc_1(cityid(loc_1(cityid('portland', cityid('portland',

Sentence 277) BLEU: 1 (1/1/1/1)

Source	What is the highest point in Kansas
Ref 0	highest(place(loc_2(stateid('kansas'
Output 0	highest(place(loc_2(stateid('kansas'
N-grams	highest(place(loc_2(stateid('kansas' highest(place(loc_2(stateid('kansas' highest(place(loc_2(stateid(highest(place(loc_2(stateid('kansas' highest(place(loc_2(stateid(place(loc_2(place(loc_2(stateid(place(loc_2(stateid('kansas' loc_2(stateid('kansas'

Sentence 278) BLEU: 1 (1/1/1/1)

Source	What rivers flow through Missouri
Ref 0	river(traverse_2(stateid('missouri'
Output 0	river(traverse_2(stateid('missouri'
N-grams	river(traverse_2(stateid('missouri' river(traverse_2(stateid('missouri' river(traverse_2(stateid('missouri' river(traverse_2(stateid(river(traverse_2(stateid('missouri' traverse_2(stateid(traverse_2(stateid('missouri'

Sentence 279) BLEU: 0.4111 (0.5714/0.5/0.4/0.25)

Source	What are the states through which the longest river runs
Ref 0	state(traverse_1(longest(river(all
Output 0	state(traverse_1(longest(river(loc_2(stateid(runs
N-grams	state(traverse_1(longest(river(loc_2(stateid(runs

state(traverse_1(longest(river(state(traverse_1(longest(river(state(traverse_1(longest(state(traverse_1(longest(river(traverse_1(longest(traverse_1(longest(river(
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