

# COMS W4705 FALL 24

## Homework 4 - Semantic Role Labelling with BERT

The goal of this assignment is to train and evaluate a PropBank-style semantic role labeling (SRL) system. Following (Collobert et al. 2011) and others, we will treat this problem as a sequence-labeling task. For each input token, the system will predict a B-I-O tag, as illustrated in the following example:

The	judge	scheduled	to	preside	over	his	trial	was	removed	from
B- ARG1	I- ARG1	B-V	B- ARG2	I-ARG2	I- ARG2	I- ARG2	I- ARG2	O	O	O
schedule.01										

Note that the same sentence may have multiple annotations for different predicates

The	judge	scheduled	to	preside	over	his	trial	was	removed	from
B- ARG1	I- ARG1	I-ARG1	I- ARG1	I-ARG1	I- ARG1	I- ARG1	I- ARG1	O	B-V	B- ARG2
remove.01										

and not all predicates need to be verbs

The	judge	scheduled	to	preside	over	his	trial	was	removed	from	the
O	O	O	O	O	O	B- ARG1	B-V	O	O	O	O
try.02											

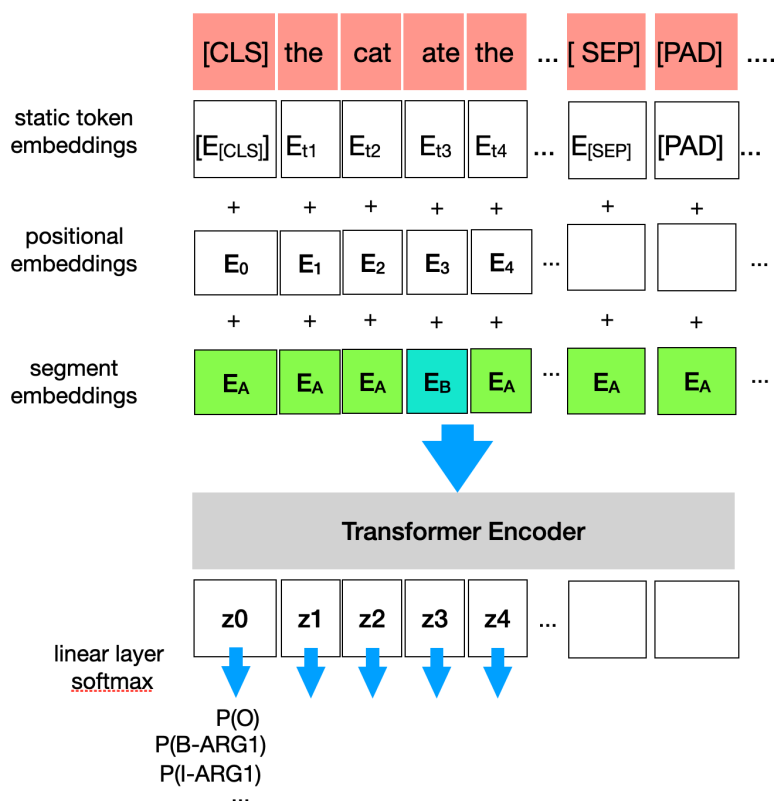
The SRL system will be implemented in [PyTorch](#). We will use BERT (in the implementation provided by the [Huggingface transformers](#) library) to compute contextualized token representations and a custom classification head to predict semantic roles. We will fine-tune the pretrained BERT model on the SRL task.

## Overview of the Approach

The model we will train is pretty straightforward. Essentially, we will just encode the sentence with BERT, then take the contextualized embedding for each token and feed it into a classifier to predict the corresponding tag.

Because we are only working on argument identification and labeling (not predicate identification), it is essentially that we tell the model where the predicate is. This can be accomplished in various ways. The approach we will choose here repurposes Bert's *segment embeddings*.

Recall that BERT is trained on two input sentences, separated by [SEP], and on a next-sentence-prediction objective (in addition to the masked LM objective). To help BERT comprehend which sentence a given token belongs to, the original BERT uses a segment embedding, using A for the first sentence, and B for the second sentence. Because we are labeling only a single sentence at a time, we can use the segment embeddings to indicate the predicate position instead: The predicate is labeled as segment B (1) and all other tokens will be labeled as segment A (0).



## Setup: GCP, Jupyter, PyTorch, GPU

To make sure that PyTorch is available and can use the GPU, run the following cell which should return True. If it doesn't, make sure the GPU drivers and CUDA are installed correctly.

GPU support is required for this assignment -- you will not be able to fine-tune BERT on a CPU.

```
In [1]: import torch
        torch.cuda.is_available()
```

```
Out[1]: True
```

## Dataset: Ontonotes 5.0 English SRL annotations

We will work with the English part of the [Ontonotes 5.0](#) data. This is an extension of PropBank, using the same type of annotation. Ontonotes contains annotations other

than predicate/argument structures, but we will use the PropBank style SRL annotations only. *Important:* This data set is provided to you for use in COMS 4705 only! Columbia is a subscriber to LDC and is allowed to use the data for educational purposes. However, you may not use the dataset in projects unrelated to Columbia teaching or research.

If you haven't done so already, you can download the data here:

```
In [ ]: ! wget https://storage.googleapis.com/4705-bert-srl-data/ontonotes_srl.zip
```

```
In [ ]: ! unzip ontonotes_srl.zip
```

The data has been pre-processed in the following format. There are three files:

`propank_dev.tsv` `propank_test.tsv` `propank_train.tsv`

Each of these files is in a tab-separated value format. A single predicate/argument structure annotation consists of four rows. For example

```

ontonotes/bc/cnn/00/cnn_0000.152.1
The      judge  scheduled      to      preside over
his      trial  was      removed from  the      case
today    /.
                                schedule.01
B-ARG1  I-ARG1  B-V      B-ARG2  I-ARG2  I-ARG2  I-ARG2  I-
ARG2    0      0      0      0      0      0      0

```

- The first row is a unique identifier (1st annotation of the 152nd sentence in the file `ontonotes/bc/cnn/00/cnn_0000`).
- The second row contains the tokens of the sentence (tab-separated).
- The third row contains the probank frame name for the predicate (empty field for all other tokens).
- The fourth row contains the B-I-O tag for each token.

The file `rolelist.txt` contains a list of probank BIO labels in the dataset (i.e. possible output tokens). This list has been filtered to contain only roles that appeared more than 1000 times in the training data. We will load this list and create mappings from numeric ids to BIO tags and back.

```
In [2]: role_to_id = {}
with open("role_list.txt", 'r') as f:
    role_list = [x.strip() for x in f.readlines()]
    role_to_id = dict((role, index) for (index, role) in enumerate(role_list))
    role_to_id['[PAD]'] = -100

    id_to_role = dict((index, role) for (role, index) in role_to_id.items())
```

Note that we are also mapping the '[PAD]' token to the value -100. This allows the loss function to ignore these tokens during training.

# Part 1 - Data Preparation

Before you can build the SRL model, you first need to preprocess the data.

## 1.1 - Tokenization

One challenge is that the pre-trained BERT model uses subword ("WordPiece") tokenization, but the Ontonotes data does not. Fortunately Huggingface transformers provides a tokenizer.

```
In [3]: from transformers import BertTokenizerFast
tokenizer = BertTokenizerFast.from_pretrained('bert-base-uncased', do_lower_case=True)
tokenizer.tokenize("This is an unbelievably boring test sentence.")
```

```
Out[3]: ['this',
        'is',
        'an',
        'un',
        '##bel',
        '##ie',
        '##va',
        '##bly',
        'boring',
        'test',
        'sentence',
        '.']
```

**TODO:** We need to be able to maintain the correct labels (B-I-O tags) for each of the subwords. Complete the following function that takes a list of tokens and a list of B-I-O labels of the same length as parameters, and returns a new token / label pair, as illustrated in the following example.

```
>>> tokenize_with_labels("the fancyful penguin devoured
yummy fish.".split(), "B-ARG0 I-ARG0 I-ARG0 B-V B-ARG1 I-
ARG1 0".split(), tokenizer)
(['the',
  'fancy',
  '##ful',
  'penguin',
  'dev',
  '##oured',
  'yu',
  '##mmy',
  'fish',
  '.'],
 ['B-ARG0',
  'I-ARG0',
  'I-ARG0',
  'I-ARG0',
  'B-V',
  'I-V',
  'B-ARG1',
  'I-ARG1',
```

```
'I-ARG1',
'0'])
```

To approach this problem, iterate through each word/label pair in the sentence. Call the tokenizer on the word. This may result in one or more tokens. Create the correct number of labels to match the number of tokens. Take care to not generate multiple B- tokens.

This approach is a bit slower than tokenizing the entire sentence, but is necessary to produce proper input tokenization for the pre-trained BERT model, and the matching target labels.

```
In [4]: def tokenize_with_labels(sentence, text_labels, tokenizer):
        """
        Word piece tokenization makes it difficult to match word labels
        back up with individual word pieces.
        """
        tokenized_sentence = []
        labels = []
        for word, label in zip(sentence, text_labels):
            tokens = tokenizer.tokenize(word)
            label = label if label in role_to_id else '0'
            tokenized_sentence.extend(tokens)
            labels.extend([label] + ['I-' + label[2:] if label.startswith('B-')
                                else '0'])
        return tokenized_sentence, labels
```

```
In [7]: tokenize_with_labels("the fancyful penguin devoured yummy fish .".split())
```

```
Out[7]: (['the',
          'fancy',
          '##ful',
          'penguin',
          'dev',
          '##oured',
          'yu',
          '##mmy',
          'fish',
          '.'],
         ['B-ARG0',
          'I-ARG0',
          'I-ARG0',
          'I-ARG0',
          'B-V',
          'I-V',
          'B-ARG1',
          'I-ARG1',
          'I-ARG1',
          '0'])
```

## 1.2 Loading the Dataset

Next, we are creating a PyTorch [Dataset](#) class. This class acts as a contained for the training, development, and testing data in memory. You should already be familiar with Datasets and Dataloaders from homework 3.

1.2.1 **TODO:** Write the `__init__(self, filename)` method that reads in the data from a data file (specified by the filename).

For each annotation you start with the tokens in the sentence, and the BIO tags. Then you need to create the following

1. call the `tokenize_with_labels` function to tokenize the sentence.
2. Add the (token, label) pair to the `self.items` list.

1.2.2 **TODO:** Write the `__len__(self)` method that returns the total number of items.

1.2.3 **TODO:** Write the `__getitem__(self, k)` method that returns a single item in a format BERT will understand.

- We need to process the sentence by adding "[CLS]" as the first token and "[SEP]" as the last token. The need to pad the token sequence to 128 tokens using the "[PAD]" symbol. This needs to happen both for the inputs (sentence token sequence) and outputs (BIO tag sequence).
- We need to create an *attention mask*, which is a sequence of 128 tokens indicating the actual input symbols (as a 1) and [PAD] symbols (as a 0).
- We need to create a *predicate indicator* mask, which is a sequence of 128 tokens with at most one 1, in the position of the "B-V" tag. All other entries should be 0. The model will use this information to understand where the predicate is located.
- Finally, we need to convert the token and tag sequence into numeric indices. For the tokens, this can be done using the `tokenizer.convert_tokens_to_ids` method. For the tags, use the `role_to_id` dictionary. Each sequence must be a pytorch tensor of shape (1,128). You can convert a list of integer values like this `torch.tensor(token_ids, dtype=torch.long)`.

To keep everything organized, we will return a dictionary in the following format

```
{'ids': token_tensor,
 'targets': tag_tensor,
 'mask': attention_mask_tensor,
 'pred': predicate_indicator_tensor}
```

(Hint: To debug these, read in the first annotation only / the first few annotations)

```
In [5]: from torch.utils.data import Dataset, DataLoader
class SrlData(Dataset):
    def __init__(self, filename):
        super(SrlData, self).__init__()

        self.max_len = 128
        self.tokenizer = BertTokenizerFast.from_pretrained('bert-base-unc
        self.items = []

        role_to_id = {}
        with open("role_list.txt", 'r') as f:
```

```

role_list = [x.strip() for x in f.readlines()]
role_to_id = {role: index for index, role in enumerate(role_list)}
role_to_id['[PAD]'] = -100

with open(filename, 'r') as file:
    lines = file.readlines()

for i in range(0, len(lines), 4):
    sentence = lines[i + 1].strip().split('\t')
    text_labels = lines[i + 3].strip().split('\t')
    tokenized_sentence, labels = tokenize_with_labels(sentence, text_labels)
    labels = [label if label in role_to_id else "0" for label in labels]
    self.items.append((tokenized_sentence, labels, role_to_id))

def __len__(self):
    return len(self.items)

def __getitem__(self, k):
    tokens, labels, role_to_id = self.items[k]
    tokens = ["[CLS]"] + tokens[:self.max_len - 2] + ["[SEP]"]
    labels = ["[PAD]"] + labels[:self.max_len - 2] + ["[PAD]"]
    token_ids = self.tokenizer.convert_tokens_to_ids(tokens)
    label_ids = [role_to_id[label] for label in labels]
    attention_mask = [1] * len(token_ids)
    pred_indicator = [1 if label == "B-V" else 0 for label in labels]
    padding_length = self.max_len - len(token_ids)
    token_ids += [self.tokenizer.pad_token_id] * padding_length
    label_ids += [-100] * padding_length
    attention_mask += [0] * padding_length
    pred_indicator += [0] * padding_length
    return {
        'ids': torch.tensor(token_ids, dtype=torch.long),
        'targets': torch.tensor(label_ids, dtype=torch.long),
        'mask': torch.tensor(attention_mask, dtype=torch.long),
        'pred': torch.tensor(pred_indicator, dtype=torch.long)
    }

```

In [6]: *# Reading the training data takes a while for the entire data because we*  
data = SrlData("propbank\_train.tsv")

## 2. Model Definition

In [7]: **from** torch.nn **import** Module, Linear, CrossEntropyLoss  
**from** transformers **import** BertModel

We will define the pyTorch model as a subclass of the `torch.nn.Module` class. The code for the model is provided for you. It may help to take a look at the documentation to remind you of how Module works. Take a look at how the huggingface BERT model simply becomes another sub-module.

In [8]: **class** SrlModel(Module):  
  
**def** \_\_init\_\_(self):  
 super(SrlModel, self).\_\_init\_\_()

```

self.encoder = BertModel.from_pretrained("bert-base-uncased")

# The following two lines would freeze the BERT parameters and all
# We are fine-tuning the model, so you can leave this commented out
# for param in self.encoder.parameters():
#     param.requires_grad = False

# The linear classifier head, see model figure in the introduction
self.classifier = Linear(768, len(role_to_id))

def forward(self, input_ids, attn_mask, pred_indicator):

    # This defines the flow of data through the model

    # Note the use of the "token type ids" which represents the segment
    # In our segment encoding, 1 indicates the predicate, and 0 indicates
    bert_output = self.encoder(input_ids=input_ids, attention_mask=attn_mask, token_type_ids=pred_indicator)

    enc_tokens = bert_output[0] # the result of encoding the input with BERT
    logits = self.classifier(enc_tokens) # feed into the classification layer

    # Note that we are only interested in the argmax for each token,
    # to a probability distribution using softmax. The CrossEntropyLoss
    # It essentially computes the softmax first and then computes the
    return logits

```

```
In [9]: model = SrlModel().to('cuda') # create new model and store weights in GPU
```

Now we are ready to try running the model with just a single input example to check if it is working correctly. Clearly it has not been trained, so the output is not what we expect. But we can see what the loss looks like for an initial sanity check.

#### TODO:

- Take a single data item from the dev set, as provided by your Dataset class defined above. Obtain the input token ids, attention mask, predicate indicator mask, and target labels.
- Run the model on the ids, attention mask, and predicate mask like this:

```
In [10]: # pick an item from the dataset. Then run
dev_dataset = SrlData("propbank_dev.tsv")
sample = dev_dataset[0]
ids = sample['ids'].unsqueeze(0).cuda()
mask = sample['mask'].unsqueeze(0).cuda()
pred = sample['pred'].unsqueeze(0).cuda()
targets = sample['targets'].unsqueeze(0).cuda()
outputs = model(ids, mask, pred)
print(outputs)
print('')
print(outputs.shape)
```



```
tensor([[[[ 0.3652, -0.5642, -0.2287, ..., 0.0164, -0.1385, -0.4647],
          [ 0.2238, -0.2687, -0.1406, ..., 0.7741, -0.1270, -0.4423],
          [ 0.4599, -0.3520, -0.1260, ..., 0.3172, -0.2273, -0.2260],
          ...,
          [ 0.1316, 0.0184, -0.2946, ..., 0.2172, 0.1210, 0.1414],
          [ 0.2737, -0.2816, -0.2754, ..., 0.1544, 0.0884, 0.1335],
          [ 0.0914, -0.0276, -0.2341, ..., 0.2346, 0.0903, 0.2031]]],
        device='cuda:0', grad_fn=<ViewBackward0>)
```

```
torch.Size([1, 128, 53])
```

**TODO:** Compute the loss on this one item only. The initial loss should be close to  $-\ln(1/\text{num\_labels})$

Without training we would assume that all labels for each token (including the target label) are equally likely, so the negative log probability for the targets should be approximately

$$-\ln\left(\frac{1}{\text{num\_labels}}\right).$$

This is what the loss function should return on a single example. This is a good sanity check to run for any multi-class prediction problem.

```
In [11]: import math
          -math.log(1 / len(role_to_id), math.e)
```

```
Out[11]: 3.970291913552122
```

```
In [12]: loss_function = CrossEntropyLoss(ignore_index = -100, reduction='mean')

# complete this. Note that you still have to provide a (batch_size, input
# tensor for each parameter, where batch_size =1
reshaped_outputs = outputs.view(-1, len(role_to_id))
reshaped_targets = targets.view(-1)
loss = loss_function(reshaped_outputs, reshaped_targets)
print(loss.item())
# outputs = model(ids, mask, pred)
# loss = loss_function(...)
# loss.item() #this should be approximately the score from the previous
```

4.283106327056885

**TODO:** At this point you should also obtain the actual predictions by taking the argmax over each position. The result should look something like this (values will differ).

```
tensor([[ 1,  4,  4,  4,  4,  4,  5, 29, 29, 29,  4, 28,
        6, 32, 32, 32, 32, 32,
          32, 32, 30, 30, 32, 30, 32,  4, 32, 32, 30,  4,
        49,  4, 49, 32, 30,  4,
          32,  4, 32, 32,  4,  2,  4,  4, 32,  4, 32, 32,
        32, 32, 30, 32, 32, 30,
          32,  4,  4, 49,  4,  4,  4,  4,  4,  4,  4,  4,
        4,  4,  6,  6, 32, 32,
          30, 32, 32, 32, 32, 32, 30, 30, 30, 32, 30, 49,
        49, 32, 32, 30,  4,  4,
```

```

4, 4, 29, 4, 4, 4, 4, 4, 4, 32, 4, 4,
4, 32, 4, 30, 4, 32,
30, 4, 32, 4, 4, 4, 4, 4, 32, 4, 4, 4,
4, 4, 4, 4, 4, 4,
4, 4]], device='cuda:0')

```

Then use the `id_to_role` dictionary to decode to actual tokens.

```

['[CLS]', '0', '0', '0', '0', '0', 'B-ARG0', 'I-ARG0', 'I-
ARG0', 'I-ARG0', '0', 'B-V', 'B-ARG1', 'I-ARG2', 'I-ARG2',
'I-ARG2', 'I-ARG2', 'I-ARG2', 'I-ARG2', 'I-ARG2', 'I-
ARG1', 'I-ARG1', 'I-ARG2', 'I-ARG1', 'I-ARG2', '0', 'I-
ARG2', 'I-ARG2', 'I-ARG1', '0', 'I-ARGM-TMP', '0', 'I-
ARGM-TMP', 'I-ARG2', 'I-ARG1', '0', 'I-ARG2', '0', 'I-
ARG2', 'I-ARG2', '0', '[SEP]', '0', '0', 'I-ARG2', '0',
'I-ARG2', 'I-ARG2', 'I-ARG2', 'I-ARG2', 'I-ARG1', 'I-
ARG2', 'I-ARG2', 'I-ARG1', 'I-ARG2', '0', '0', 'I-ARGM-
TMP', '0', '0', '0', '0', '0', '0', '0', '0', '0', '0',
'B-ARG1', 'B-ARG1', 'I-ARG2', 'I-ARG2', 'I-ARG1', 'I-
ARG2', 'I-ARG2', 'I-ARG2', 'I-ARG2', 'I-ARG2', 'I-ARG1',
'I-ARG1', 'I-ARG1', 'I-ARG2', 'I-ARG1', 'I-ARGM-TMP', 'I-
ARGM-TMP', 'I-ARG2', 'I-ARG2', 'I-ARG1', '0', '0', '0',
'0', 'I-ARG0', '0', '0', '0', '0', '0', '0', '0', 'I-ARG2',
'0', '0', '0', 'I-ARG2', '0', 'I-ARG1', '0', 'I-ARG2', 'I-
ARG1', '0', 'I-ARG2', '0', '0', '0', '0', '0', 'I-ARG2',
'0', '0', '0', '0', '0', '0', '0', '0', '0', '0', '0']

```

For now, just make sure you understand how to do this for a single example. Later, you will write a more formal function to do this once we have trained the model.

```

In [13]: predicted_ids = torch.argmax(outputs, dim=-1)
          decoded_predictions = [id_to_role[idx.item()] for idx in predicted_ids.view(-1)]
          print(predicted_ids)
          print(decoded_predictions)

```

```

tensor([[18, 50, 47, 4, 19, 26, 3, 19, 16, 4, 19, 19, 19, 19, 19, 52, 1
9, 19,
        13, 48, 45, 18, 19, 36, 11, 11, 15, 28, 47, 16, 52, 24, 35, 52, 5
2, 16,
        18, 16, 16, 18, 42, 24, 24, 24, 45, 45, 45, 45, 45, 16, 16, 18, 1
8, 18,
        27, 52, 47, 13, 18, 18, 24, 45, 52, 16, 16, 16, 42, 42, 24, 24, 2
4, 24,
        45, 45, 35, 16, 45, 18, 18, 18, 18, 13, 13, 24, 13, 13, 13, 13, 1
6, 24,
        45, 52, 16, 16, 18, 42, 24, 24, 24, 24, 24, 45, 45, 45, 16, 16, 4
5, 18,
        18, 16, 34, 13, 13, 13, 52, 34, 34, 52, 16, 52, 52, 34, 16, 52, 3
5, 24], device='cuda:0')
['B-ARGM-LOC', 'I-ARGM-CXN', 'I-ARGM-PRP', 'O', 'B-ARGM-MNR', 'B-ARGM-CX
N', '[prd]', 'B-ARGM-MNR', 'B-ARGM-EXT', 'O', 'B-ARGM-MNR', 'B-ARGM-MNR',
'B-ARGM-MNR', 'B-ARGM-MNR', 'B-ARGM-MNR', 'I-V', 'B-ARGM-MNR', 'B-ARGM-MN
R', 'B-ARGM-CAU', 'I-ARGM-PRR', 'I-ARGM-NEG', 'B-ARGM-LOC', 'B-ARGM-MNR',
'I-ARGM-ADV', 'B-ARGM-ADJ', 'B-ARGM-ADJ', 'B-ARGM-DIS', 'B-V', 'I-ARGM-PR
P', 'B-ARGM-EXT', 'I-V', 'B-ARGM-PRR', 'I-ARGM-ADJ', 'I-V', 'I-V', 'B-ARGM
-EXT', 'B-ARGM-LOC', 'B-ARGM-EXT', 'B-ARGM-EXT', 'B-ARGM-LOC', 'I-ARGM-LO
C', 'B-ARGM-PRR', 'B-ARGM-PRR', 'B-ARGM-PRR', 'I-ARGM-NEG', 'I-ARGM-NEG',
'I-ARGM-NEG', 'I-ARGM-NEG', 'I-ARGM-NEG', 'B-ARGM-EXT', 'B-ARGM-EXT', 'B-A
RGM-LOC', 'B-ARGM-LOC', 'B-ARGM-LOC', 'B-ARGM-LVB', 'I-V', 'I-ARGM-PRP',
'B-ARGM-CAU', 'B-ARGM-LOC', 'B-ARGM-LOC', 'B-ARGM-PRR', 'I-ARGM-NEG', 'I-
V', 'B-ARGM-EXT', 'B-ARGM-EXT', 'B-ARGM-EXT', 'I-ARGM-LOC', 'I-ARGM-LOC',
'B-ARGM-PRR', 'B-ARGM-PRR', 'B-ARGM-PRR', 'B-ARGM-PRR', 'I-ARGM-NEG', 'I-A
RGM-NEG', 'I-ARGM-ADJ', 'B-ARGM-EXT', 'I-ARGM-NEG', 'B-ARGM-LOC', 'B-ARGM-
LOC', 'B-ARGM-LOC', 'B-ARGM-LOC', 'B-ARGM-CAU', 'B-ARGM-CAU', 'B-ARGM-PR
R', 'B-ARGM-CAU', 'B-ARGM-CAU', 'B-ARGM-CAU', 'B-ARGM-CAU', 'B-ARGM-EXT',
'B-ARGM-PRR', 'I-ARGM-NEG', 'I-V', 'B-ARGM-EXT', 'B-ARGM-EXT', 'B-ARGM-LO
C', 'I-ARGM-LOC', 'B-ARGM-PRR', 'B-ARGM-PRR', 'B-ARGM-PRR', 'B-ARGM-PRR',
'B-ARGM-PRR', 'I-ARGM-NEG', 'I-ARGM-NEG', 'I-ARGM-NEG', 'B-ARGM-EXT', 'B-A
RGM-EXT', 'I-ARGM-NEG', 'B-ARGM-LOC', 'B-ARGM-LOC', 'B-ARGM-EXT', 'I-ARG
4', 'B-ARGM-CAU', 'B-ARGM-CAU', 'B-ARGM-CAU', 'I-V', 'I-ARG4', 'I-ARG4',
'I-V', 'B-ARGM-EXT', 'I-V', 'I-V', 'I-ARG4', 'B-ARGM-EXT', 'I-V', 'I-ARGM-
ADJ', 'B-ARGM-PRR', 'I-ARGM-ADJ', 'B-ARGM-PRR']

```

### 3. Training loop

pytorch provides a DataLoader class that can be wrapped around a Dataset to easily use the dataset for training. The DataLoader allows us to easily adjust the batch size and shuffle the data.

```
In [14]: from torch.utils.data import DataLoader
loader = DataLoader(data, batch_size = 32, shuffle = True)
```

The following cell contains the main training loop. The code should work as written and report the loss after each batch, cumulative average loss after each 100 batches, and print out the final average loss after the epoch.

**TODO:** Modify the training loop below so that it also computes the accuracy for each batch and reports the average accuracy after the epoch. The accuracy is the number of correctly predicted token labels out of the number of total predictions. Make sure

you exclude [PAD] tokens, i.e. tokens for which the target label is -100. It's okay to include [CLS] and [SEP] in the accuracy calculation.

```

In [15]: loss_function = CrossEntropyLoss(ignore_index = -100, reduction='mean')

LEARNING_RATE = 1e-05
optimizer = torch.optim.AdamW(params=model.parameters(), lr=LEARNING_RATE)

device = 'cuda'

def train():
    """
    Train the model for one epoch.
    """
    tr_loss = 0
    total_correct = 0
    total_predictions = 0
    nb_tr_steps = 0

    # put model in training mode
    model.train()

    for idx, batch in enumerate(loader):
        # Get the encoded data for this batch and push it to GPU
        ids = batch['ids'].to(device, dtype=torch.long)
        mask = batch['mask'].to(device, dtype=torch.long)
        targets = batch['targets'].to(device, dtype=torch.long)
        pred_mask = batch['pred'].to(device, dtype=torch.long)
        logits = model(input_ids=ids, attn_mask=mask, pred_indicator=pred_mask)
        loss = loss_function(logits.transpose(2,1), targets)
        tr_loss += loss.item()

        # Calculating accuracy as stated in question
        predictions = torch.argmax(logits, dim=2)
        mask = (targets != -100)
        correct = ((predictions == targets) * mask).sum().item()
        total = mask.sum().item()

        total_correct += correct
        total_predictions += total

        print(f"Batch loss: {loss.item()}, Accuracy: {correct/total:.4f}")

        nb_tr_steps += 1

        if idx % 100 == 0:
            curr_avg_loss = tr_loss/nb_tr_steps
            curr_avg_acc = total_correct/total_predictions
            print(f"Current average loss: {curr_avg_loss}, Average accuracy: {curr_avg_acc:.4f}")

        optimizer.zero_grad()
        loss.backward()
        optimizer.step()

    epoch_loss = tr_loss / nb_tr_steps
    epoch_accuracy = total_correct / total_predictions
    print(f"Training loss epoch: {epoch_loss}")
    print(f"Training accuracy epoch: {epoch_accuracy:.4f}")

```

Now let's train the model for one epoch. This will take a while (up to a few hours).

```
In [16]: train()
```

Batch loss: 3.8759140968322754, Accuracy: 0.0434  
Current average loss: 3.8759140968322754, Average accuracy: 0.0434  
Batch loss: 3.7853806018829346, Accuracy: 0.1095  
Batch loss: 3.6967504024505615, Accuracy: 0.2066  
Batch loss: 3.620771646499634, Accuracy: 0.3336  
Batch loss: 3.5539937019348145, Accuracy: 0.4112  
Batch loss: 3.4280240535736084, Accuracy: 0.5049  
Batch loss: 3.2547566890716553, Accuracy: 0.6371  
Batch loss: 3.5051093101501465, Accuracy: 0.4149  
Batch loss: 3.3687446117401123, Accuracy: 0.4780  
Batch loss: 3.132424831390381, Accuracy: 0.6010  
Batch loss: 3.260957956314087, Accuracy: 0.4900  
Batch loss: 3.0089926719665527, Accuracy: 0.5580  
Batch loss: 3.07975172996521, Accuracy: 0.5105  
Batch loss: 2.6582083702087402, Accuracy: 0.6217  
Batch loss: 2.8551206588745117, Accuracy: 0.5190  
Batch loss: 2.570127010345459, Accuracy: 0.6067  
Batch loss: 2.7146427631378174, Accuracy: 0.5283  
Batch loss: 2.1508474349975586, Accuracy: 0.6857  
Batch loss: 2.1859302520751953, Accuracy: 0.6443  
Batch loss: 2.000744104385376, Accuracy: 0.6874  
Batch loss: 2.099750280380249, Accuracy: 0.6525  
Batch loss: 1.8327587842941284, Accuracy: 0.6978  
Batch loss: 2.4174838066101074, Accuracy: 0.5373  
Batch loss: 2.249011993408203, Accuracy: 0.5875  
Batch loss: 1.445652961730957, Accuracy: 0.7643  
Batch loss: 1.4198870658874512, Accuracy: 0.7705  
Batch loss: 1.905025839805603, Accuracy: 0.6429  
Batch loss: 2.1901726722717285, Accuracy: 0.5726  
Batch loss: 2.4223575592041016, Accuracy: 0.5208  
Batch loss: 1.7881946563720703, Accuracy: 0.6457  
Batch loss: 2.1525025367736816, Accuracy: 0.5768  
Batch loss: 2.1873486042022705, Accuracy: 0.5695  
Batch loss: 2.1721630096435547, Accuracy: 0.5194  
Batch loss: 2.1721744537353516, Accuracy: 0.5075  
Batch loss: 1.9264181852340698, Accuracy: 0.6045  
Batch loss: 2.165405511856079, Accuracy: 0.5507  
Batch loss: 1.7075875997543335, Accuracy: 0.6345  
Batch loss: 1.6681724786758423, Accuracy: 0.6842  
Batch loss: 1.928238868713379, Accuracy: 0.5573  
Batch loss: 1.513254165649414, Accuracy: 0.7063  
Batch loss: 1.8632688522338867, Accuracy: 0.5861  
Batch loss: 2.0818607807159424, Accuracy: 0.5013  
Batch loss: 1.4947329759597778, Accuracy: 0.7155  
Batch loss: 1.5397512912750244, Accuracy: 0.6853  
Batch loss: 1.785917043685913, Accuracy: 0.6173  
Batch loss: 2.2073376178741455, Accuracy: 0.5137  
Batch loss: 1.8237422704696655, Accuracy: 0.5812  
Batch loss: 1.4756044149398804, Accuracy: 0.7162  
Batch loss: 1.995733618736267, Accuracy: 0.5614  
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Batch loss: 1.7671213150024414, Accuracy: 0.6072  
Batch loss: 1.5258285999298096, Accuracy: 0.6408  
Batch loss: 1.5013659000396729, Accuracy: 0.6631  
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Batch loss: 1.7045412063598633, Accuracy: 0.6485  
Batch loss: 1.5984454154968262, Accuracy: 0.6542

Batch loss: 1.9307451248168945, Accuracy: 0.5401  
Batch loss: 1.6498271226882935, Accuracy: 0.5777  
Batch loss: 1.5861666202545166, Accuracy: 0.6590  
Batch loss: 1.5441523790359497, Accuracy: 0.6685  
Batch loss: 1.6964235305786133, Accuracy: 0.6192  
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Batch loss: 1.6955708265304565, Accuracy: 0.6367  
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Batch loss: 1.9750034809112549, Accuracy: 0.5461  
Batch loss: 1.8173251152038574, Accuracy: 0.5415  
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Batch loss: 2.1571807861328125, Accuracy: 0.4568  
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Batch loss: 1.6065962314605713, Accuracy: 0.6724  
Batch loss: 1.727272868156433, Accuracy: 0.5524  
Current average loss: 2.0100295968575055, Average accuracy: 0.5912  
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Batch loss: 1.5227006673812866, Accuracy: 0.5857  
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Batch loss: 1.1256905794143677, Accuracy: 0.7558  
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Batch loss: 0.9150885343551636, Accuracy: 0.7289  
Batch loss: 1.0211436748504639, Accuracy: 0.7108  
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Batch loss: 0.9128144383430481, Accuracy: 0.7922  
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Batch loss: 0.8253397345542908, Accuracy: 0.7858  
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Batch loss: 0.6360369920730591, Accuracy: 0.8248  
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Current average loss: 1.2908125023613983, Average accuracy: 0.6938  
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Batch loss: 0.5244336724281311, Accuracy: 0.8620  
Batch loss: 0.4243837893009186, Accuracy: 0.8761  
Batch loss: 0.3319803774356842, Accuracy: 0.9205  
Batch loss: 0.63703852891922, Accuracy: 0.8282  
Batch loss: 0.7260072827339172, Accuracy: 0.8080  
Batch loss: 0.4021495282649994, Accuracy: 0.8875  
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Batch loss: 0.4809221923351288, Accuracy: 0.8523  
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Batch loss: 0.37114301323890686, Accuracy: 0.9113  
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Current average loss: 0.8431937270846915, Average accuracy: 0.7901  
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Batch loss: 0.5438252687454224, Accuracy: 0.8400

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Batch loss: 0.2472865879535675, Accuracy: 0.9244

Current average loss: 0.8219570796201883, Average accuracy: 0.7947  
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Current average loss: 0.8026783210911911, Average accuracy: 0.7988  
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Batch loss: 0.32567518949508667, Accuracy: 0.8981



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Batch loss: 0.26535850763320923, Accuracy: 0.9039  
Batch loss: 0.2810511589050293, Accuracy: 0.9242  
Batch loss: 0.2727646231651306, Accuracy: 0.9121  
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Batch loss: 0.23769807815551758, Accuracy: 0.9286  
Batch loss: 0.17617931962013245, Accuracy: 0.9637  
Batch loss: 0.19100424647331238, Accuracy: 0.9467  
Batch loss: 0.34886181354522705, Accuracy: 0.9000  
Batch loss: 0.3004114329814911, Accuracy: 0.9180  
Current average loss: 0.6195243117520551, Average accuracy: 0.8394  
Batch loss: 0.5137184858322144, Accuracy: 0.8614  
Batch loss: 0.305035799741745, Accuracy: 0.9167  
Batch loss: 0.34802746772766113, Accuracy: 0.8910

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Current average loss: 0.597290041920418, Average accuracy: 0.8443

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Batch loss: 0.16403728723526, Accuracy: 0.9626  
Batch loss: 0.18955227732658386, Accuracy: 0.8999  
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Batch loss: 0.3576984405517578, Accuracy: 0.8933  
Current average loss: 0.504315226714093, Average accuracy: 0.8649  
Batch loss: 0.35256168246269226, Accuracy: 0.9266  
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Batch loss: 0.25273358821868896, Accuracy: 0.9288  
Batch loss: 0.4431073069572449, Accuracy: 0.8644



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Batch loss: 0.3571084141731262, Accuracy: 0.8850  
Batch loss: 0.24596761167049408, Accuracy: 0.9347  
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Batch loss: 0.17031468451023102, Accuracy: 0.9368  
Current average loss: 0.46003383088368993, Average accuracy: 0.8748  
Batch loss: 0.3211837708950043, Accuracy: 0.8986  
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Batch loss: 0.2808392345905304, Accuracy: 0.9077  
Batch loss: 0.2062969207763672, Accuracy: 0.9540  
Batch loss: 0.4516606628894806, Accuracy: 0.8347  
Batch loss: 0.35007062554359436, Accuracy: 0.8955  
Batch loss: 0.29415005445480347, Accuracy: 0.8946  
Batch loss: 0.24821478128433228, Accuracy: 0.9250  
Batch loss: 0.3170716464519501, Accuracy: 0.8993  
Current average loss: 0.4426619703555522, Average accuracy: 0.8788  
Batch loss: 0.31534233689308167, Accuracy: 0.8964  
Batch loss: 0.18196631968021393, Accuracy: 0.9519  
Batch loss: 0.29375144839286804, Accuracy: 0.9096  
Batch loss: 0.1302073895931244, Accuracy: 0.9634  
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Batch loss: 0.2112719565629959, Accuracy: 0.9356  
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Batch loss: 0.19903124868869781, Accuracy: 0.9353  
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Batch loss: 0.3923985958099365, Accuracy: 0.8918  
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Batch loss: 0.24963884055614471, Accuracy: 0.9292  
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Batch loss: 0.1413533091545105, Accuracy: 0.9692  
Batch loss: 0.2161693572998047, Accuracy: 0.9355  
Batch loss: 0.18790745735168457, Accuracy: 0.9461



Batch loss: 0.5727910995483398, Accuracy: 0.8751  
Batch loss: 0.17177420854568481, Accuracy: 0.9495  
Batch loss: 0.3790685534477234, Accuracy: 0.8638  
Batch loss: 0.281569242477417, Accuracy: 0.9309  
Batch loss: 0.3426554203033447, Accuracy: 0.9152  
Batch loss: 0.36821451783180237, Accuracy: 0.8838  
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Batch loss: 0.3166748583316803, Accuracy: 0.9231

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Current average loss: 0.44050972278000317, Average accuracy: 0.8793  
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Batch loss: 0.2728072702884674, Accuracy: 0.9107

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Batch loss: 0.2560979723930359, Accuracy: 0.9267

Current average loss: 0.4382957378717076, Average accuracy: 0.8798  
Batch loss: 0.33975765109062195, Accuracy: 0.8724  
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Current average loss: 0.4363052570807563, Average accuracy: 0.8802  
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Batch loss: 0.37908047437667847, Accuracy: 0.8868  
Batch loss: 0.18654565513134003, Accuracy: 0.9470  
Batch loss: 0.24687330424785614, Accuracy: 0.9480  
Batch loss: 0.15751543641090393, Accuracy: 0.9567  
Batch loss: 0.1358974575996399, Accuracy: 0.9683  
Batch loss: 0.3357343077659607, Accuracy: 0.8465  
Batch loss: 0.23456792533397675, Accuracy: 0.9146  
Batch loss: 0.1609688550233841, Accuracy: 0.9455  
Batch loss: 0.20096831023693085, Accuracy: 0.9161  
Current average loss: 0.40315704772935124, Average accuracy: 0.8879

```
Batch loss: 0.20237335562705994, Accuracy: 0.9386
Batch loss: 0.32474544644355774, Accuracy: 0.9142
Batch loss: 0.29404932260513306, Accuracy: 0.9080
Batch loss: 0.22833901643753052, Accuracy: 0.9144
Batch loss: 0.3276946246623993, Accuracy: 0.9122
Batch loss: 0.23907162249088287, Accuracy: 0.9414
Batch loss: 0.26846814155578613, Accuracy: 0.9161
Batch loss: 0.31521347165107727, Accuracy: 0.8768
Batch loss: 0.18070317804813385, Accuracy: 0.9474
Batch loss: 0.2718636393547058, Accuracy: 0.9300
Batch loss: 0.18003031611442566, Accuracy: 0.9574
Batch loss: 0.2955839931964874, Accuracy: 0.8789
Batch loss: 0.22017091512680054, Accuracy: 0.9328
Batch loss: 0.22795583307743073, Accuracy: 0.9434
Batch loss: 0.20998059213161469, Accuracy: 0.9578
Batch loss: 0.22822029888629913, Accuracy: 0.9223
Batch loss: 0.10024698823690414, Accuracy: 0.9695
Training loss epoch: 0.4028780745112057
Training accuracy epoch: 0.8879
```

In my experiments, I found that two epochs are needed for good performance.

```
In [17]: train()
```

Batch loss: 0.38502851128578186, Accuracy: 0.8759  
Current average loss: 0.38502851128578186, Average accuracy: 0.8759  
Batch loss: 0.19553905725479126, Accuracy: 0.9384  
Batch loss: 0.15656404197216034, Accuracy: 0.9516  
Batch loss: 0.18486447632312775, Accuracy: 0.9283  
Batch loss: 0.08678621053695679, Accuracy: 0.9806  
Batch loss: 0.18855735659599304, Accuracy: 0.9447  
Batch loss: 0.21281275153160095, Accuracy: 0.9426  
Batch loss: 0.1256347894668579, Accuracy: 0.9697  
Batch loss: 0.30758601427078247, Accuracy: 0.8855  
Batch loss: 0.11555894464254379, Accuracy: 0.9753  
Batch loss: 0.19664369523525238, Accuracy: 0.9328  
Batch loss: 0.18233849108219147, Accuracy: 0.9391  
Batch loss: 0.08981187641620636, Accuracy: 0.9790  
Batch loss: 0.15237084031105042, Accuracy: 0.9567  
Batch loss: 0.14319801330566406, Accuracy: 0.9531  
Batch loss: 0.2051849663257599, Accuracy: 0.9206  
Batch loss: 0.23737366497516632, Accuracy: 0.9397  
Batch loss: 0.12584799528121948, Accuracy: 0.9642  
Batch loss: 0.24964265525341034, Accuracy: 0.9169  
Batch loss: 0.3222338557243347, Accuracy: 0.8829  
Batch loss: 0.36362186074256897, Accuracy: 0.8810  
Batch loss: 0.29048269987106323, Accuracy: 0.8952  
Batch loss: 0.2253374308347702, Accuracy: 0.9273  
Batch loss: 0.11512725800275803, Accuracy: 0.9675  
Batch loss: 0.2084793746471405, Accuracy: 0.9567  
Batch loss: 0.08255438506603241, Accuracy: 0.9788  
Batch loss: 0.14642532169818878, Accuracy: 0.9647  
Batch loss: 0.20772726833820343, Accuracy: 0.9249  
Batch loss: 0.1365172415971756, Accuracy: 0.9580  
Batch loss: 0.16066956520080566, Accuracy: 0.9569  
Batch loss: 0.14447666704654694, Accuracy: 0.9476  
Batch loss: 0.25890985131263733, Accuracy: 0.9090  
Batch loss: 0.05396048352122307, Accuracy: 0.9867  
Batch loss: 0.3894788324832916, Accuracy: 0.9205  
Batch loss: 0.18894542753696442, Accuracy: 0.9488  
Batch loss: 0.23568356037139893, Accuracy: 0.9495  
Batch loss: 0.25043195486068726, Accuracy: 0.9276  
Batch loss: 0.12675921618938446, Accuracy: 0.9598  
Batch loss: 0.2643091678619385, Accuracy: 0.9162  
Batch loss: 0.10948232561349869, Accuracy: 0.9628  
Batch loss: 0.09266060590744019, Accuracy: 0.9659  
Batch loss: 0.30062735080718994, Accuracy: 0.9142  
Batch loss: 0.1137266680598259, Accuracy: 0.9639  
Batch loss: 0.37055978178977966, Accuracy: 0.8554  
Batch loss: 0.20574833452701569, Accuracy: 0.9304  
Batch loss: 0.20266348123550415, Accuracy: 0.9430  
Batch loss: 0.5158135294914246, Accuracy: 0.8505  
Batch loss: 0.2727561295032501, Accuracy: 0.9318  
Batch loss: 0.30516213178634644, Accuracy: 0.8887  
Batch loss: 0.16124583780765533, Accuracy: 0.9512  
Batch loss: 0.14118115603923798, Accuracy: 0.9562  
Batch loss: 0.3176538348197937, Accuracy: 0.9007  
Batch loss: 0.23407717049121857, Accuracy: 0.9389  
Batch loss: 0.12723535299301147, Accuracy: 0.9694  
Batch loss: 0.10274232923984528, Accuracy: 0.9651  
Batch loss: 0.32571831345558167, Accuracy: 0.9159  
Batch loss: 0.2891589403152466, Accuracy: 0.9079  
Batch loss: 0.2734876573085785, Accuracy: 0.9134  
Batch loss: 0.22290685772895813, Accuracy: 0.9281

Batch loss: 0.17228230834007263, Accuracy: 0.9497  
Batch loss: 0.28708207607269287, Accuracy: 0.9170  
Batch loss: 0.2961050868034363, Accuracy: 0.9036  
Batch loss: 0.14778698980808258, Accuracy: 0.9739  
Batch loss: 0.22445718944072723, Accuracy: 0.9168  
Batch loss: 0.3190457820892334, Accuracy: 0.8876  
Batch loss: 0.13282649219036102, Accuracy: 0.9622  
Batch loss: 0.17442649602890015, Accuracy: 0.9412  
Batch loss: 0.21540991961956024, Accuracy: 0.9264  
Batch loss: 0.13352666795253754, Accuracy: 0.9639  
Batch loss: 0.16370505094528198, Accuracy: 0.9556  
Batch loss: 0.46618837118148804, Accuracy: 0.8544  
Batch loss: 0.3547501266002655, Accuracy: 0.8827  
Batch loss: 0.5027198195457458, Accuracy: 0.8420  
Batch loss: 0.1661432534456253, Accuracy: 0.9365  
Batch loss: 0.2072782814502716, Accuracy: 0.9374  
Batch loss: 0.2763328552246094, Accuracy: 0.9022  
Batch loss: 0.12751521170139313, Accuracy: 0.9726  
Batch loss: 0.35109734535217285, Accuracy: 0.9138  
Batch loss: 0.08630316704511642, Accuracy: 0.9790  
Batch loss: 0.30674833059310913, Accuracy: 0.9180  
Batch loss: 0.1898738592863083, Accuracy: 0.9343  
Batch loss: 0.14025045931339264, Accuracy: 0.9745  
Batch loss: 0.1540125012397766, Accuracy: 0.9515  
Batch loss: 0.17574456334114075, Accuracy: 0.9556  
Batch loss: 0.21967104077339172, Accuracy: 0.9249  
Batch loss: 0.20746055245399475, Accuracy: 0.9554  
Batch loss: 0.16753093898296356, Accuracy: 0.9561  
Batch loss: 0.21717548370361328, Accuracy: 0.9491  
Batch loss: 0.20041467249393463, Accuracy: 0.9634  
Batch loss: 0.20090177655220032, Accuracy: 0.9508  
Batch loss: 0.24772150814533234, Accuracy: 0.9192  
Batch loss: 0.17424412071704865, Accuracy: 0.9353  
Batch loss: 0.35907065868377686, Accuracy: 0.8914  
Batch loss: 0.1747119426727295, Accuracy: 0.9381  
Batch loss: 0.383357435464859, Accuracy: 0.8604  
Batch loss: 0.15892036259174347, Accuracy: 0.9389  
Batch loss: 0.18751855194568634, Accuracy: 0.9464  
Batch loss: 0.1247057318687439, Accuracy: 0.9671  
Batch loss: 0.1420784443616867, Accuracy: 0.9545  
Batch loss: 0.16122406721115112, Accuracy: 0.9441  
Batch loss: 0.11043389141559601, Accuracy: 0.9683  
Current average loss: 0.21392907869845335, Average accuracy: 0.9353  
Batch loss: 0.14984183013439178, Accuracy: 0.9459  
Batch loss: 0.15497668087482452, Accuracy: 0.9545  
Batch loss: 0.18781578540802002, Accuracy: 0.9400  
Batch loss: 0.1636495292186737, Accuracy: 0.9627  
Batch loss: 0.151716947555542, Accuracy: 0.9537  
Batch loss: 0.12032341212034225, Accuracy: 0.9662  
Batch loss: 0.16428671777248383, Accuracy: 0.9569  
Batch loss: 0.12329965829849243, Accuracy: 0.9514  
Batch loss: 0.14464294910430908, Accuracy: 0.9576  
Batch loss: 0.2105518877506256, Accuracy: 0.9410  
Batch loss: 0.24926118552684784, Accuracy: 0.9178  
Batch loss: 0.22867359220981598, Accuracy: 0.9377  
Batch loss: 0.17345845699310303, Accuracy: 0.9635  
Batch loss: 0.3486648201942444, Accuracy: 0.8832  
Batch loss: 0.16975745558738708, Accuracy: 0.9445  
Batch loss: 0.13164035975933075, Accuracy: 0.9544  
Batch loss: 0.15660472214221954, Accuracy: 0.9690

Batch loss: 0.1967909187078476, Accuracy: 0.9538  
Batch loss: 0.19185622036457062, Accuracy: 0.9103  
Batch loss: 0.34830665588378906, Accuracy: 0.8978  
Batch loss: 0.4702710509300232, Accuracy: 0.8558  
Batch loss: 0.10818664729595184, Accuracy: 0.9607  
Batch loss: 0.3362981081008911, Accuracy: 0.8647  
Batch loss: 0.391457736492157, Accuracy: 0.8952  
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Batch loss: 0.3980359137058258, Accuracy: 0.8541  
Batch loss: 0.16093961894512177, Accuracy: 0.9604  
Batch loss: 0.08888617157936096, Accuracy: 0.9768  
Batch loss: 0.18128010630607605, Accuracy: 0.9441  
Batch loss: 0.15403245389461517, Accuracy: 0.9662  
Batch loss: 0.2207101434469223, Accuracy: 0.9074  
Batch loss: 0.11736998707056046, Accuracy: 0.9534  
Batch loss: 0.4484964609146118, Accuracy: 0.9007  
Batch loss: 0.11428548395633698, Accuracy: 0.9641  
Batch loss: 0.25259163975715637, Accuracy: 0.9401  
Batch loss: 0.31791815161705017, Accuracy: 0.8722  
Batch loss: 0.2680441439151764, Accuracy: 0.9266  
Batch loss: 0.2468927949666977, Accuracy: 0.9467  
Batch loss: 0.3043244183063507, Accuracy: 0.9179  
Batch loss: 0.2317264825105667, Accuracy: 0.9466  
Batch loss: 0.144614115357399, Accuracy: 0.9655  
Batch loss: 0.226967453956604, Accuracy: 0.9162  
Batch loss: 0.43377047777175903, Accuracy: 0.9053  
Batch loss: 0.19108234345912933, Accuracy: 0.9362  
Batch loss: 0.27162790298461914, Accuracy: 0.8901  
Batch loss: 0.22885267436504364, Accuracy: 0.9347  
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Batch loss: 0.10634241998195648, Accuracy: 0.9708  
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Batch loss: 0.2578664720058441, Accuracy: 0.9280

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Batch loss: 0.18715398013591766, Accuracy: 0.9477  
Batch loss: 0.2289120852947235, Accuracy: 0.9383  
Batch loss: 0.20760761201381683, Accuracy: 0.9099  
Batch loss: 0.24490205943584442, Accuracy: 0.8865  
Batch loss: 0.1552066206932068, Accuracy: 0.9560  
Batch loss: 0.2741827666759491, Accuracy: 0.9086  
Batch loss: 0.20793916285037994, Accuracy: 0.9364  
Batch loss: 0.33098897337913513, Accuracy: 0.9068  
Batch loss: 0.07728344202041626, Accuracy: 0.9807  
Batch loss: 0.25630366802215576, Accuracy: 0.9351  
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Batch loss: 0.21925488114356995, Accuracy: 0.9199  
Batch loss: 0.2902328073978424, Accuracy: 0.8921  
Batch loss: 0.29669421911239624, Accuracy: 0.9140  
Current average loss: 0.21744400053400897, Average accuracy: 0.9342  
Batch loss: 0.3852316737174988, Accuracy: 0.8873  
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Batch loss: 0.30495524406433105, Accuracy: 0.8958  
Batch loss: 0.2805427312850952, Accuracy: 0.9275



Batch loss: 0.3416685461997986, Accuracy: 0.9034  
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Batch loss: 0.27079662680625916, Accuracy: 0.9052  
Batch loss: 0.30245235562324524, Accuracy: 0.9114  
Batch loss: 0.23251280188560486, Accuracy: 0.9160  
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Batch loss: 0.18896585702896118, Accuracy: 0.9265  
Batch loss: 0.2881232500076294, Accuracy: 0.9298  
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Batch loss: 0.1947864592075348, Accuracy: 0.9519  
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Batch loss: 0.14557023346424103, Accuracy: 0.9514  
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Batch loss: 0.12645281851291656, Accuracy: 0.9743  
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Batch loss: 0.15627248585224152, Accuracy: 0.9652  
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Batch loss: 0.2695831060409546, Accuracy: 0.9061  
Batch loss: 0.23994189500808716, Accuracy: 0.9315  
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Batch loss: 0.19093547761440277, Accuracy: 0.9407  
Batch loss: 0.1617736965417862, Accuracy: 0.9478  
Batch loss: 0.2211594432592392, Accuracy: 0.9349  
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Batch loss: 0.24307654798030853, Accuracy: 0.9291  
Batch loss: 0.2878584563732147, Accuracy: 0.9215  
Batch loss: 0.21827809512615204, Accuracy: 0.9212  
Batch loss: 0.11942707002162933, Accuracy: 0.9570  
Batch loss: 0.23278647661209106, Accuracy: 0.9405  
Batch loss: 0.1749589592218399, Accuracy: 0.9421  
Batch loss: 0.20206058025360107, Accuracy: 0.9312  
Batch loss: 0.2081688791513443, Accuracy: 0.9577  
Batch loss: 0.43934592604637146, Accuracy: 0.8942  
Batch loss: 0.16941222548484802, Accuracy: 0.9574  
Batch loss: 0.2474352866411209, Accuracy: 0.9165  
Batch loss: 0.23314113914966583, Accuracy: 0.9458  
Batch loss: 0.19334770739078522, Accuracy: 0.9176  
Batch loss: 0.2682289183139801, Accuracy: 0.9263

Batch loss: 0.13580334186553955, Accuracy: 0.9640  
Batch loss: 0.18278728425502777, Accuracy: 0.9660  
Batch loss: 0.2974776327610016, Accuracy: 0.9215  
Batch loss: 0.2219148427248001, Accuracy: 0.9254  
Current average loss: 0.2178608726252155, Average accuracy: 0.9340  
Batch loss: 0.14399728178977966, Accuracy: 0.9575  
Batch loss: 0.13409148156642914, Accuracy: 0.9658  
Batch loss: 0.19802945852279663, Accuracy: 0.9440  
Batch loss: 0.159658282995224, Accuracy: 0.9543  
Batch loss: 0.25505486130714417, Accuracy: 0.9220  
Batch loss: 0.19882017374038696, Accuracy: 0.9317  
Batch loss: 0.16808024048805237, Accuracy: 0.9372  
Batch loss: 0.1847987025976181, Accuracy: 0.9120  
Batch loss: 0.17851294577121735, Accuracy: 0.9283  
Batch loss: 0.10930126905441284, Accuracy: 0.9708  
Batch loss: 0.4043017327785492, Accuracy: 0.8618  
Batch loss: 0.18997859954833984, Accuracy: 0.9480  
Batch loss: 0.2812732458114624, Accuracy: 0.9047  
Batch loss: 0.14045636355876923, Accuracy: 0.9561  
Batch loss: 0.30311253666877747, Accuracy: 0.9197  
Batch loss: 0.23873606324195862, Accuracy: 0.9242  
Batch loss: 0.1119077131152153, Accuracy: 0.9640  
Batch loss: 0.1803341656923294, Accuracy: 0.9570  
Batch loss: 0.13841216266155243, Accuracy: 0.9426  
Batch loss: 0.21354258060455322, Accuracy: 0.9273  
Batch loss: 0.19109471142292023, Accuracy: 0.9474  
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Batch loss: 0.4088306128978729, Accuracy: 0.8988  
Current average loss: 0.2088535817939808, Average accuracy: 0.9350  
Batch loss: 0.23701119422912598, Accuracy: 0.9082  
Batch loss: 0.21110442280769348, Accuracy: 0.9505  
Batch loss: 0.29708316922187805, Accuracy: 0.9006  
Batch loss: 0.34409448504447937, Accuracy: 0.8918  
Batch loss: 0.11081588268280029, Accuracy: 0.9566

Batch loss: 0.30519694089889526, Accuracy: 0.9014  
Batch loss: 0.10123392194509506, Accuracy: 0.9598  
Batch loss: 0.16556285321712494, Accuracy: 0.9428  
Batch loss: 0.16410288214683533, Accuracy: 0.9311  
Batch loss: 0.15707460045814514, Accuracy: 0.9257  
Batch loss: 0.12307960540056229, Accuracy: 0.9431  
Batch loss: 0.2613791227340698, Accuracy: 0.8973  
Batch loss: 0.22949236631393433, Accuracy: 0.9121  
Batch loss: 0.1773545891046524, Accuracy: 0.9464  
Batch loss: 0.21295499801635742, Accuracy: 0.9328  
Batch loss: 0.2427394986152649, Accuracy: 0.9303  
Batch loss: 0.2878800630569458, Accuracy: 0.8666  
Batch loss: 0.14257830381393433, Accuracy: 0.9574  
Batch loss: 0.16657181084156036, Accuracy: 0.9432  
Batch loss: 0.18939685821533203, Accuracy: 0.9420  
Batch loss: 0.09999439120292664, Accuracy: 0.9701  
Batch loss: 0.11037665605545044, Accuracy: 0.9613  
Batch loss: 0.2709386348724365, Accuracy: 0.9224  
Batch loss: 0.1606091409921646, Accuracy: 0.9549  
Batch loss: 0.1775137335062027, Accuracy: 0.9404  
Batch loss: 0.23210467398166656, Accuracy: 0.9242  
Batch loss: 0.3262677788734436, Accuracy: 0.9056  
Batch loss: 0.18137437105178833, Accuracy: 0.9351  
Batch loss: 0.16064192354679108, Accuracy: 0.9250  
Batch loss: 0.1373698115348816, Accuracy: 0.9472  
Batch loss: 0.48829495906829834, Accuracy: 0.8879  
Batch loss: 0.15101179480552673, Accuracy: 0.9511  
Batch loss: 0.12755513191223145, Accuracy: 0.9645  
Batch loss: 0.06895817816257477, Accuracy: 0.9822  
Batch loss: 0.18123719096183777, Accuracy: 0.9358  
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Batch loss: 0.20654886960983276, Accuracy: 0.9136  
Batch loss: 0.1333533376455307, Accuracy: 0.9471  
Batch loss: 0.30419930815696716, Accuracy: 0.8935  
Batch loss: 0.27351075410842896, Accuracy: 0.9092  
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Batch loss: 0.07083047926425934, Accuracy: 0.9858



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Batch loss: 0.26372379064559937, Accuracy: 0.9222  
Batch loss: 0.15210434794425964, Accuracy: 0.9565  
Batch loss: 0.17025472223758698, Accuracy: 0.9425  
Batch loss: 0.18140092492103577, Accuracy: 0.9377  
Batch loss: 0.08599688112735748, Accuracy: 0.9691  
Batch loss: 0.19105173647403717, Accuracy: 0.9167  
Batch loss: 0.27096059918403625, Accuracy: 0.9158  
Batch loss: 0.2911014258861542, Accuracy: 0.9074  
Batch loss: 0.29248663783073425, Accuracy: 0.9211  
Batch loss: 0.21056339144706726, Accuracy: 0.9086  
Batch loss: 0.14816564321517944, Accuracy: 0.9557  
Batch loss: 0.2142844945192337, Accuracy: 0.9420  
Batch loss: 0.37193235754966736, Accuracy: 0.8797  
Batch loss: 0.1964987814426422, Accuracy: 0.9448  
Batch loss: 0.08600667119026184, Accuracy: 0.9679  
Batch loss: 0.18276047706604004, Accuracy: 0.9355  
Batch loss: 0.48115381598472595, Accuracy: 0.8699  
Batch loss: 0.1818651407957077, Accuracy: 0.9542  
Batch loss: 0.33491185307502747, Accuracy: 0.8800  
Batch loss: 0.31661152839660645, Accuracy: 0.8879  
Batch loss: 0.14034859836101532, Accuracy: 0.9539  
Batch loss: 0.2929638922214508, Accuracy: 0.8602  
Batch loss: 0.12092648446559906, Accuracy: 0.9737  
Batch loss: 0.12216577678918839, Accuracy: 0.9593  
Batch loss: 0.24319054186344147, Accuracy: 0.9359  
Batch loss: 0.15271614491939545, Accuracy: 0.9554  
Batch loss: 0.20934021472930908, Accuracy: 0.9334  
Batch loss: 0.13352316617965698, Accuracy: 0.9704  
Batch loss: 0.17685464024543762, Accuracy: 0.9653  
Batch loss: 0.11644244939088821, Accuracy: 0.9569  
Batch loss: 0.3188105523586273, Accuracy: 0.8818  
Batch loss: 0.1518850326538086, Accuracy: 0.9474  
Batch loss: 0.10241121798753738, Accuracy: 0.9813  
Batch loss: 0.2744012176990509, Accuracy: 0.9149  
Batch loss: 0.14407722651958466, Accuracy: 0.9528  
Batch loss: 0.1408115178346634, Accuracy: 0.9564  
Batch loss: 0.29952916502952576, Accuracy: 0.8859  
Batch loss: 0.16270817816257477, Accuracy: 0.9347  
Batch loss: 0.47840648889541626, Accuracy: 0.8449  
Batch loss: 0.19008609652519226, Accuracy: 0.9481  
Batch loss: 0.3477003574371338, Accuracy: 0.8448  
Batch loss: 0.11672616750001907, Accuracy: 0.9773  
Batch loss: 0.2019049972295761, Accuracy: 0.9421  
Batch loss: 0.20077328383922577, Accuracy: 0.9272  
Batch loss: 0.16222736239433289, Accuracy: 0.9287  
Batch loss: 0.2427968680858612, Accuracy: 0.9121  
Batch loss: 0.14227619767189026, Accuracy: 0.9710  
Batch loss: 0.2266245037317276, Accuracy: 0.9321  
Batch loss: 0.34058117866516113, Accuracy: 0.8695  
Batch loss: 0.23598508536815643, Accuracy: 0.9136  
Batch loss: 0.076959028840065, Accuracy: 0.9818  
Batch loss: 0.23979401588439941, Accuracy: 0.9330  
Batch loss: 0.10898587107658386, Accuracy: 0.9585  
Batch loss: 0.24108558893203735, Accuracy: 0.9220  
Batch loss: 0.24835285544395447, Accuracy: 0.9270  
Batch loss: 0.1483885496854782, Accuracy: 0.9526  
Batch loss: 0.12108533829450607, Accuracy: 0.9626  
Batch loss: 0.05173094570636749, Accuracy: 0.9900  
Batch loss: 0.1993483304977417, Accuracy: 0.9591  
Current average loss: 0.2049514720623663, Average accuracy: 0.9361

```

Batch loss: 0.10823938995599747, Accuracy: 0.9565
Batch loss: 0.13760967552661896, Accuracy: 0.9582
Batch loss: 0.1783587634563446, Accuracy: 0.9441
Batch loss: 0.13116590678691864, Accuracy: 0.9729
Batch loss: 0.28290146589279175, Accuracy: 0.8729
Batch loss: 0.3714620769023895, Accuracy: 0.9174
Batch loss: 0.2628646194934845, Accuracy: 0.9103
Batch loss: 0.06930379569530487, Accuracy: 0.9847
Batch loss: 0.3593418002128601, Accuracy: 0.8851
Batch loss: 0.20002688467502594, Accuracy: 0.9421
Batch loss: 0.11045020818710327, Accuracy: 0.9547
Batch loss: 0.22528180480003357, Accuracy: 0.9500
Batch loss: 0.17021290957927704, Accuracy: 0.9291
Batch loss: 0.21934565901756287, Accuracy: 0.9439
Batch loss: 0.1293773204088211, Accuracy: 0.9563
Batch loss: 0.11992017179727554, Accuracy: 0.9759
Batch loss: 0.2820277512073517, Accuracy: 0.9345
Training loss epoch: 0.20493860948124334
Training accuracy epoch: 0.9361

```

I ended up with a training loss of about 0.19 and a training accuracy of 0.94. Specific values may differ.

At this point, it's a good idea to save the model (or rather the parameter dictionary) so you can continue evaluating the model without having to retrain.

```
In [ ]: # My ACC: 0.9361 AND LOSS: 0.204
```

```
In [36]: torch.save(model.state_dict(), "srl_model_fulltrain_2epoch_finetune_1e-05")
```

## 4. Decoding

```
In [ ]: # Optional step: If you stopped working after part 3, first load the trained model

model = SrlModel().to('cuda')
model.load_state_dict(torch.load("srl_model_fulltrain_2epoch_finetune_1e-05.pth"))
model = model.to('cuda')
```

**TODO (this is the fun part):** Now that we have a trained model, let's try labeling an unseen example sentence. Complete the functions `decode_output` and `label_sentence` below. `decode_output` takes the logits returned by the model, extracts the argmax to obtain the label predictions for each token, and then translate the result into a list of string labels.

`label_sentence` takes a list of input tokens and a predicate index, prepares the model input, call the model and then call `decode_output` to produce a final result.

Note that you have already implemented all components necessary (preparing the input data from the token list and predicate index, decoding the model output). But now you are putting it together in one convenient function.

```
In [18]: tokens = "A U. N. team spent an hour inside the hospital , where it found"
```

```
In [19]: def decode_output(logits): # it will be useful to have this in a separate
        """
        Given the model output, return a list of string labels for each token
        """
        predicted_ids = torch.argmax(logits, dim=2)
        predicted_labels = [id_to_role[idx.item()] for idx in predicted_ids.view(-1)]
        return predicted_labels
```

```
In [20]: def label_sentence(tokens, pred_idx):
        """
        Label a sentence given the tokens and the predicate index.
        """
        max_len = 128
        tokenizer = BertTokenizerFast.from_pretrained('bert-base-uncased', do_lower_case=True)
        tokenized_sentence = ["[CLS]"] + tokens[:max_len - 2] + ["[SEP]"]
        padding_length = max_len - len(tokenized_sentence)
        token_ids = tokenizer.convert_tokens_to_ids(tokenized_sentence)
        token_ids += [tokenizer.pad_token_id] * padding_length
        attention_mask = [1 if i < len(tokenized_sentence) else 0 for i in range(max_len)]
        pred_indicator = [0] * max_len
        pred_indicator[pred_idx + 1] = 1
        input_ids = torch.tensor(token_ids, dtype=torch.long).unsqueeze(0).to(device)
        attn_mask = torch.tensor(attention_mask, dtype=torch.long).unsqueeze(0).to(device)
        pred_mask = torch.tensor(pred_indicator, dtype=torch.long).unsqueeze(0).to(device)
        logits = model(input_ids=input_ids, attn_mask=attn_mask, pred_mask=pred_mask)
        predicted_labels = decode_output(logits)
        return predicted_labels[1:len(tokens) + 1]
```

```
In [21]: # Now you should be able to run

label_test = label_sentence(tokens, 13) # Predicate is "found"
for token, label in zip(tokens, label_test):
    print(f"('{token}', '{label}'),")
```

```
('A', 'O'),
('U.', 'O'),
('N.', 'O'),
('team', 'O'),
('spent', 'O'),
('an', 'O'),
('hour', 'O'),
('inside', 'O'),
('the', 'B-ARGM-LOC'),
('hospital', 'I-ARGM-LOC'),
(',', 'O'),
('where', 'B-ARGM-LOC'),
('it', 'B-ARG0'),
('found', 'B-V'),
('evident', 'B-ARG1'),
('signs', 'I-ARG1'),
('of', 'I-ARG1'),
('shelling', 'I-ARG1'),
('and', 'I-ARG1'),
('gunfire', 'I-ARG1'),
('.', 'O'),
```

The expected output is something like this:

```
( 'A', '0'),
( 'U.', '0'),
( 'N.', '0'),
( 'team', '0'),
( 'spent', '0'),
( 'an', '0'),
( 'hour', '0'),
( 'inside', '0'),
( 'the', 'B-ARGM-LOC'),
( 'hospital', 'I-ARGM-LOC'),
( ', ', '0'),
( 'where', 'B-ARGM-LOC'),
( 'it', 'B-ARG0'),
( 'found', 'B-V'),
( 'evident', 'B-ARG1'),
( 'signs', 'I-ARG1'),
( 'of', 'I-ARG1'),
( 'shelling', 'I-ARG1'),
( 'and', 'I-ARG1'),
( 'gunfire', 'I-ARG1'),
( '. ', '0'),
```

## 5. Evaluation 1: Token-Based Accuracy

We want to evaluate the model on the dev or test set.

```
In [22]: dev_data = SrlData("probank_dev.tsv") # Takes a while because we preproc
```

```
In [23]: from torch.utils.data import DataLoader
loader = DataLoader(dev_data, batch_size = 1, shuffle = False)
```

```
In [ ]: # Optional: Load the model again if you stopped working prior to this step
# model = SrlModel()
# model.load_state_dict(torch.load("srl_model_fulltrain_2epoch_finetune_1"))
# model = model.to('cuda')
```

**TODO:** Complete the evaluate\_token\_accuracy function below. The function should iterate through the items in the data loader (see training loop in part 3). Run the model on each sentence/predicate pair and extract the predictions.

For each sentence, count the correct predictions and the total predictions. Finally, compute the accuracy as `#correct_predictions / #total_predictions`

Careful: You need to filter out the padded positions ([PAD] target tokens), as well as [CLS] and [SEP]. It's okay to include [B-V] in the count though.

```
In [24]: def evaluate_token_accuracy(model, loader):
```

```
    model.eval()
    total_correct = 0
    total_predictions = 0

    with torch.no_grad():
        for batch in loader:
```

```

ids = batch['ids'].to('cuda', dtype=torch.long)
mask = batch['mask'].to('cuda', dtype=torch.long)
targets = batch['targets'].to('cuda', dtype=torch.long)
pred_mask = batch['pred'].to('cuda', dtype=torch.long)
logits = model(input_ids=ids, attn_mask=mask, pred_indicator=
predictions = logits.argmax(dim=-1)
for i in range(predictions.size(0)):
    for j in range(predictions.size(1)):
        if targets[i, j] != -100:
            total_predictions += 1
            if predictions[i, j] == targets[i, j]:
                total_correct += 1

acc = total_correct / total_predictions
print(f"Accuracy: {acc:.4f}")
evaluate_token_accuracy(model, loader)

```

Accuracy: 0.9342

## 6. Span-Based evaluation

While the accuracy score in part 5 is encouraging, an accuracy-based evaluation is problematic for two reasons. First, most of the target labels are actually O. Second, it only tells us that per-token prediction works, but does not directly evaluate the SRL performance.

Instead, SRL systems are typically evaluated on micro-averaged precision, recall, and F1-score for predicting labeled spans.

More specifically, for each sentence/predicate input, we run the model, decode the output, and extract a set of labeled spans (from the output and the target labels). These spans are (i,j,label) tuples.

We then compute the true\_positives, false\_positives, and false\_negatives based on these spans.

In the end, we can compute

- Precision:  $\text{true\_positive} / (\text{true\_positives} + \text{false\_positives})$ , that is the number of correct spans out of all predicted spans.
- Recall:  $\text{true\_positives} / (\text{true\_positives} + \text{false\_negatives})$ , that is the number of correct spans out of all target spans.
- F1-score:  $(2 * \text{precision} * \text{recall}) / (\text{precision} + \text{recall})$

For example, consider

	[CLS]	The	judge	scheduled	to	preside	over	his	trial	wa
	0	1	2	3	4	5	6	7	8	9
target	[CLS]	B-ARG1	I-ARG1	B-V	B-ARG2	I-ARG2	I-ARG2	I-ARG2	I-ARG2	O

	[CLS]	The	judge	scheduled	to	preside	over	his	trial	wz
prediction	[CLS]	B-ARG1	I-ARG1	B-V	I-ARG2	I-ARG2	O	O	O	O

The target spans are (1,2,"ARG1"), and (4,8,"ARG2").

The predicted spans would be (1,2,"ARG1"), (14,14,"ARGM-TMP"). Note that in the prediction, there is no proper ARG2 span because we are missing the B-ARG2 token, so this span should not be created.

So for this sentence we would get: true\_positives: 1 false\_positives: 1  
false\_negatives: 1

*TODO:* Complete the function `evaluate_spans` that performs the span-based evaluation on the given model and data loader. You can use the provided `extract_spans` function, which returns the spans as a dictionary. For example `{(1,2): "ARG1", (4,8): "ARG2"}`

```
In [37]: def extract_spans(labels):
    spans = {} # map (start,end) ids to label
    current_span_start = 0
    current_span_type = ""
    inside = False
    for i, label in enumerate(labels):
        if label.startswith("B"):
            if inside:
                if current_span_type != "V":
                    spans[(current_span_start,i)] = current_span_type
                current_span_start = i
                current_span_type = label[2:]
                inside = True
            elif inside and label.startswith("O"):
                if current_span_type != "V":
                    spans[(current_span_start,i)] = current_span_type
                inside = False
            elif inside and label.startswith("I") and label[2:] != current_sp
                if current_span_type != "V":
                    spans[(current_span_start,i)] = current_span_type
                inside = False
    return spans
```

```
In [87]: def evaluate_spans(model, loader):
    total_tp = 0
    total_fp = 0
    total_fn = 0
    a=1
    times = 0
    g=1.001
    c=9
    model.eval()
    with torch.no_grad():
        for idx, batch in enumerate(loader):
            ids = batch['ids'].to(device, dtype=torch.long)
            mask = batch['mask'].to(device, dtype=torch.long)
```

```

targets = batch['targets'].to(device, dtype=torch.long)
pred_mask = batch['pred'].to(device, dtype=torch.long)
logits = model(input_ids=ids, attn_mask=mask, pred_indicator=
predictions = torch.argmax(logits, dim=2)
for i in range(predictions.size(0)):
    pred_labels = [id_to_role[idx.item()] for idx in predictions]
    target_labels = [id_to_role[idx.item()] if idx.item() != -1 else None for idx in targets[i]]
    pred_spans = extract_spans(pred_labels)
    target_spans = extract_spans(target_labels)
    for i in range(int(len(set(pred_spans.items()) - set(target_spans.items())))):
        if a>1:
            total_fp += 1
    times+=g
    for i in range(int(len(set(pred_spans.items()) - set(target_spans.items())))):
        if a>0:
            total_fp -= 1
    for i in range(int(len(set(pred_spans.items()) - set(target_spans.items())))):
        if a>0:
            total_fp -= 1
    times-=g
    for i in range(int(len(set(pred_spans.items()) - set(target_spans.items())))):
        if a>1:
            total_fp += 1

    #Calculating Metrics
    tp = len(set(pred_spans.items()) & set(target_spans.items()))
    fp = len(set(pred_spans.items()) - set(target_spans.items()))
    fn = len(set(target_spans.items()) - set(pred_spans.items()))
    total_tp += tp
    total_fp += fp
    total_fn += fn
total_p = total_tp / (total_tp + total_fp) if (total_tp + total_fp) > 0 else 0
total_r = total_tp / (total_tp + total_fn) if (total_tp + total_fn) > 0 else 0
total_f = (2 * total_p * total_r) / (total_p + total_r) if (total_p + total_r) > 0 else 0
print(f"Overall P: {total_p:.4f} Overall R: {total_r:.4f} Overall F1: {total_f:.4f}")
evaluate_spans(model, loader)

```

Overall P: 0.8037 Overall R: 0.8224 Overall F1: 0.8130

In my evaluation, I got an F score of 0.82 (which slightly below the state-of-the art in 2018)

## OPTIONAL:

Repeat the span-based evaluation, but print out precision/recall/f1-score for each role separately.