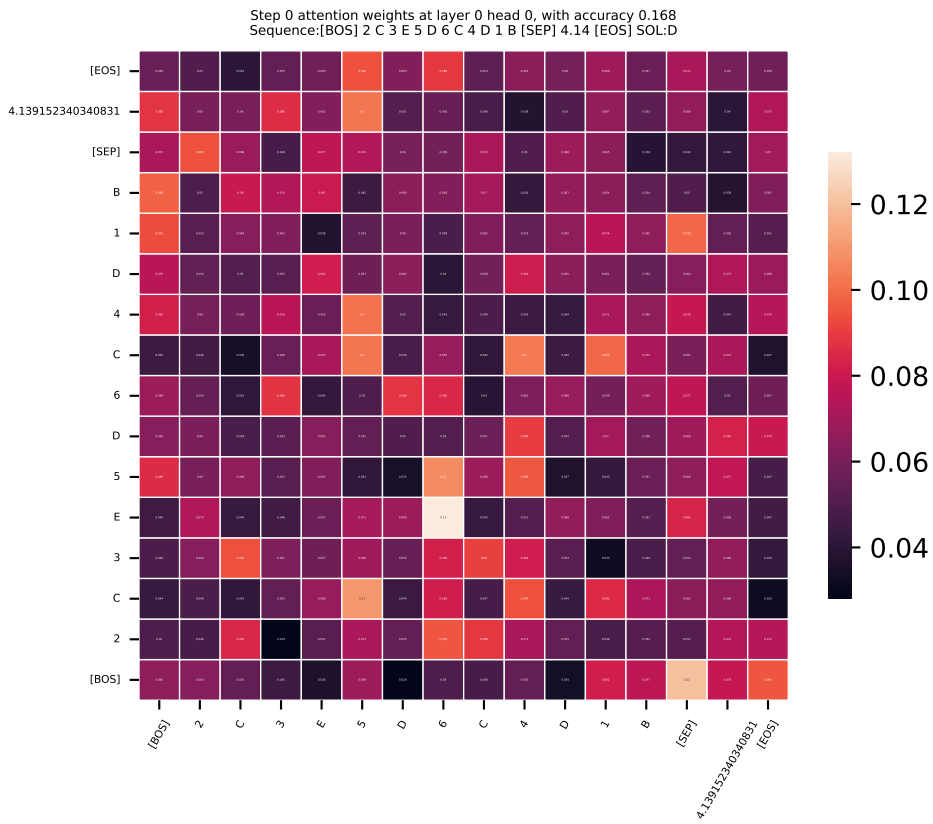
Step 0 attention weights at layer 0 head 0, with accuracy 0.168
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[SEP]
B
1
D
4
C
6
D
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E
3
C
2
[BOS]
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3
E
5
D
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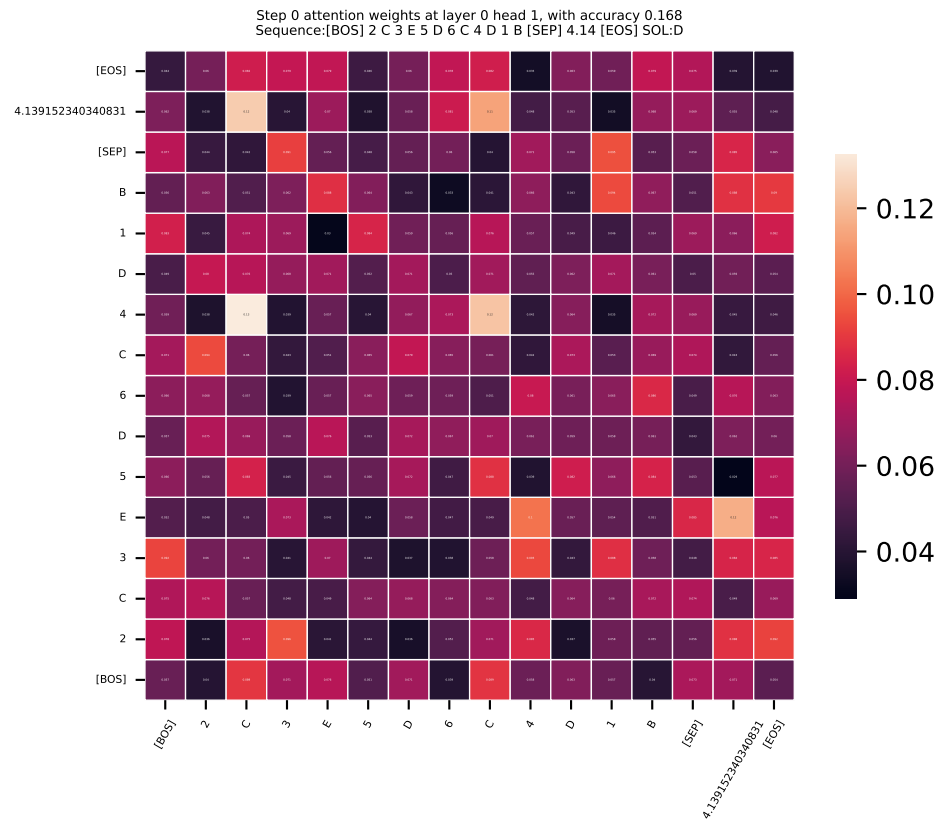
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C
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E
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C
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[BOS]
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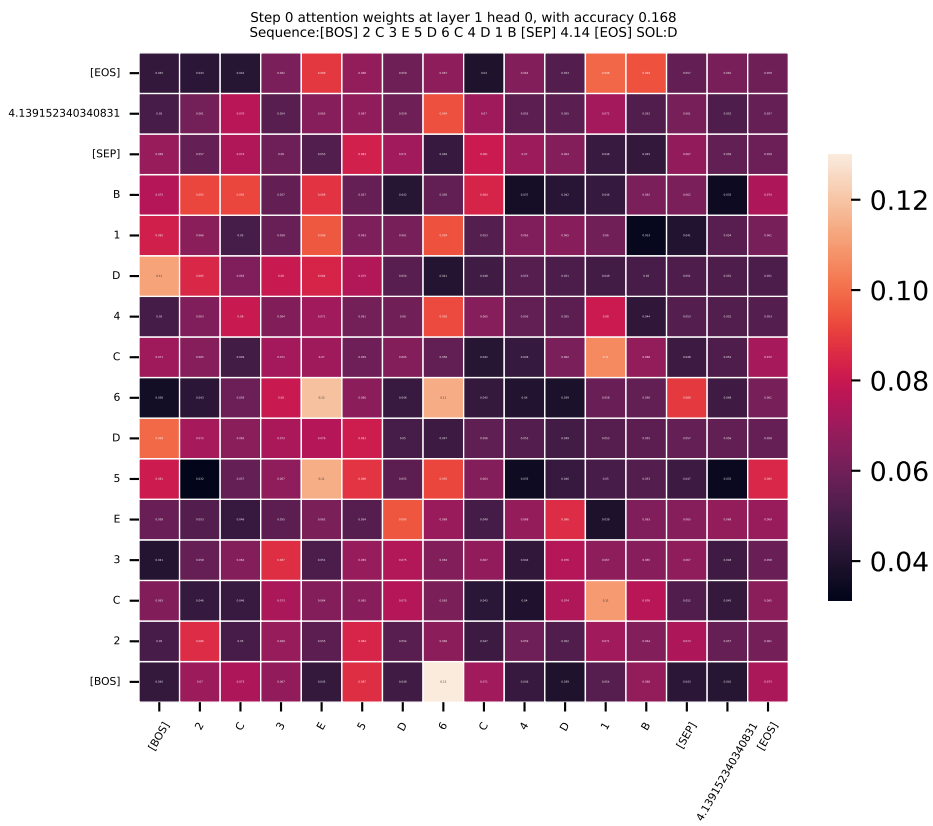
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C
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[BOS]
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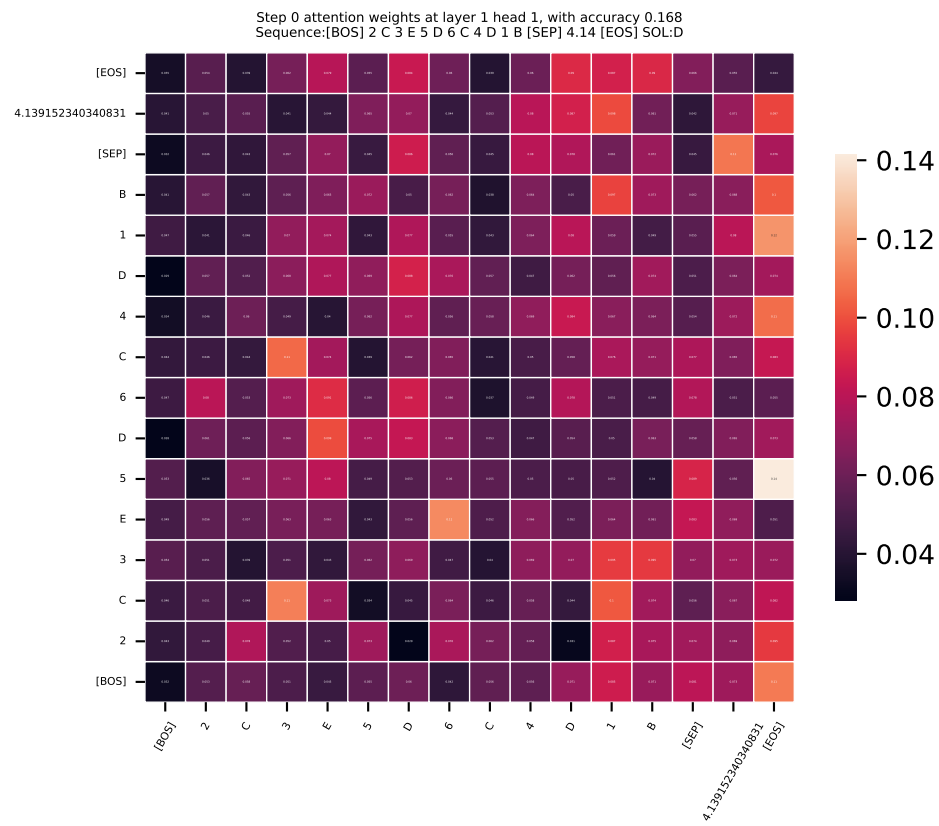
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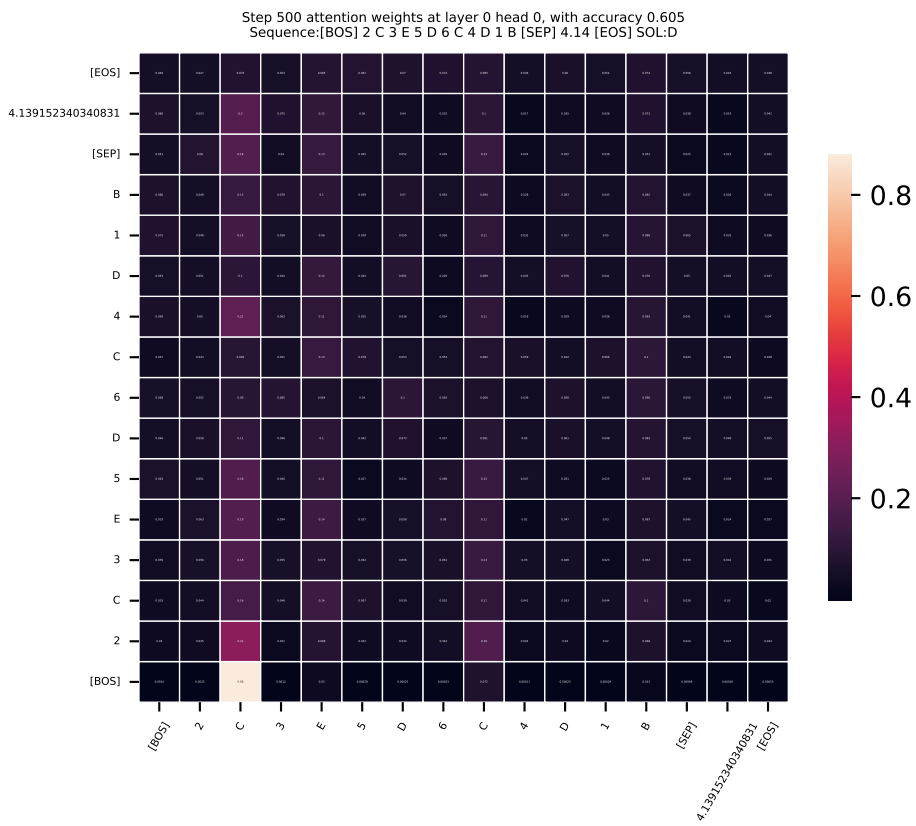
Step 500 attention weights at layer 0 head 0, with accuracy 0.605
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[SEP]
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E
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[BOS]
[BOS]
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D
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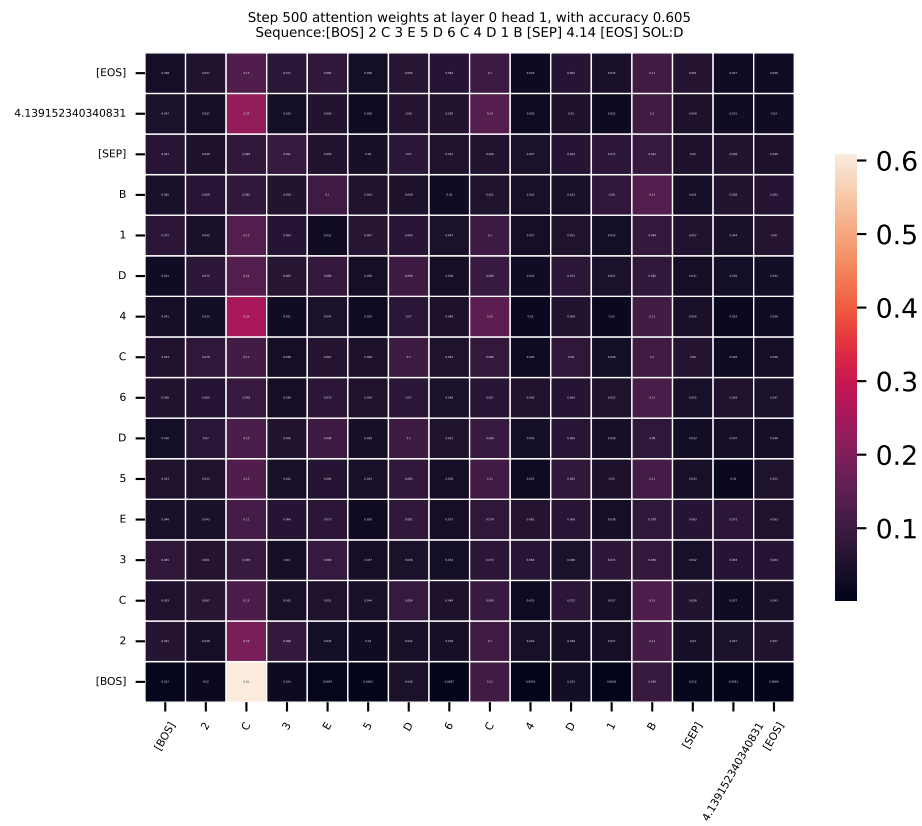
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C
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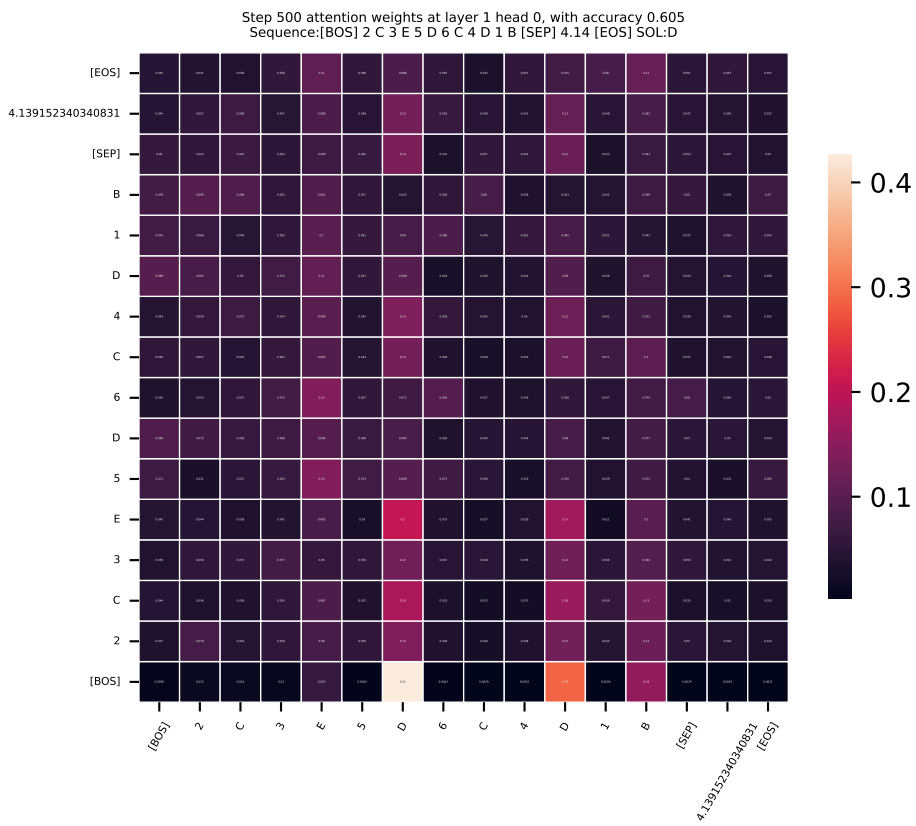
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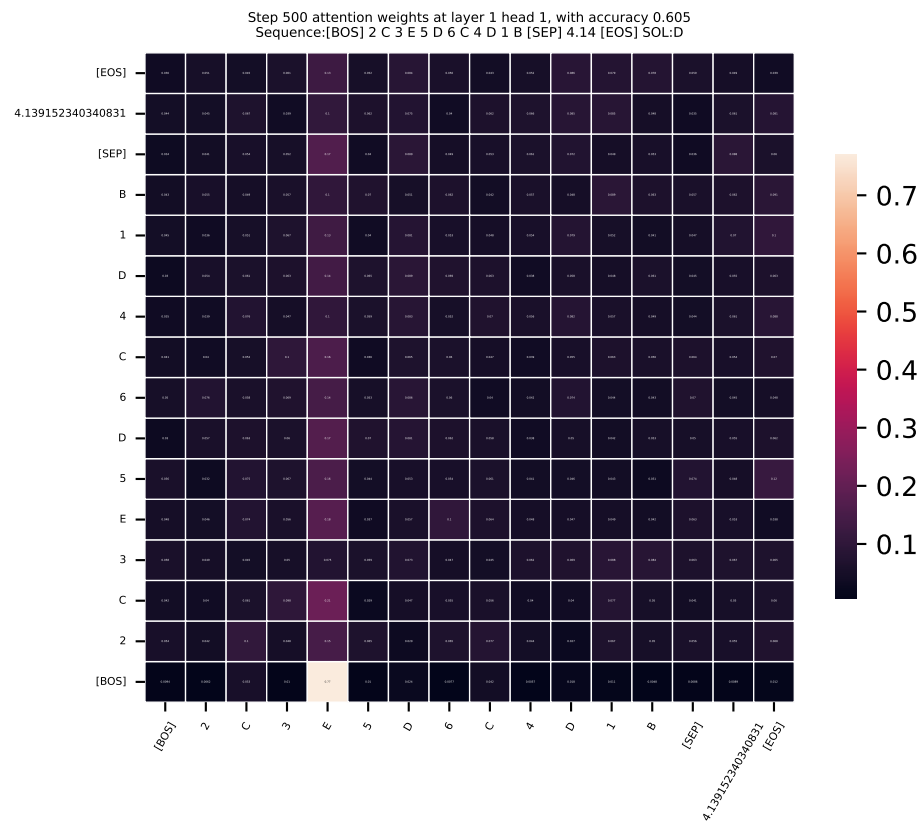
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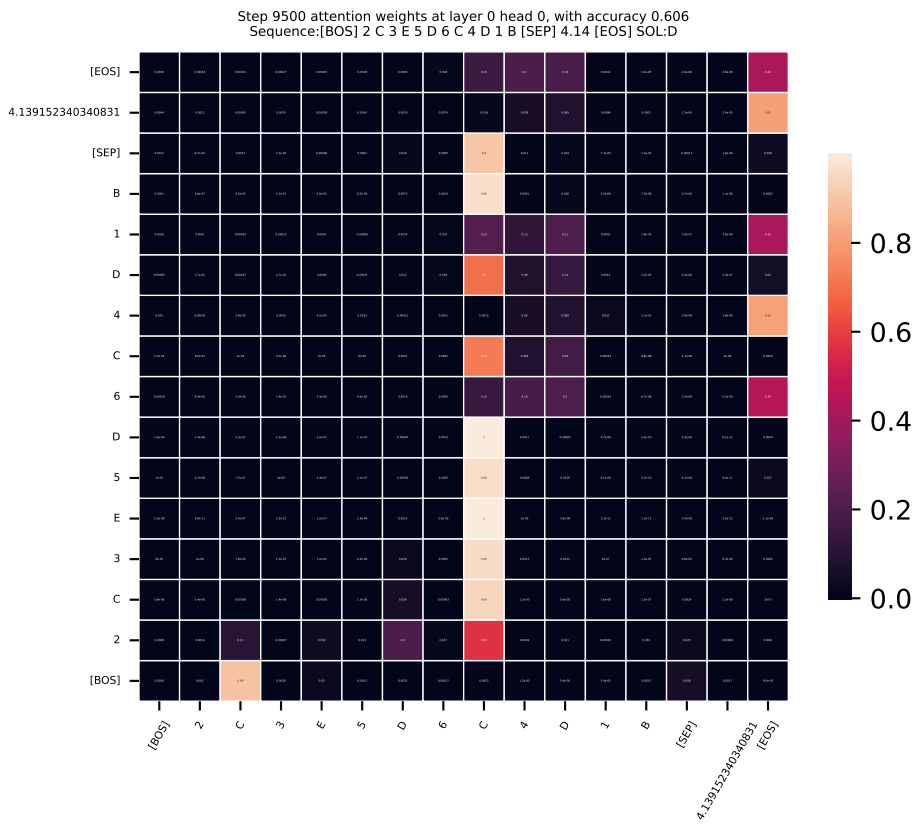
Step 9500 attention weights at layer 0 head 0, with accuracy 0.606
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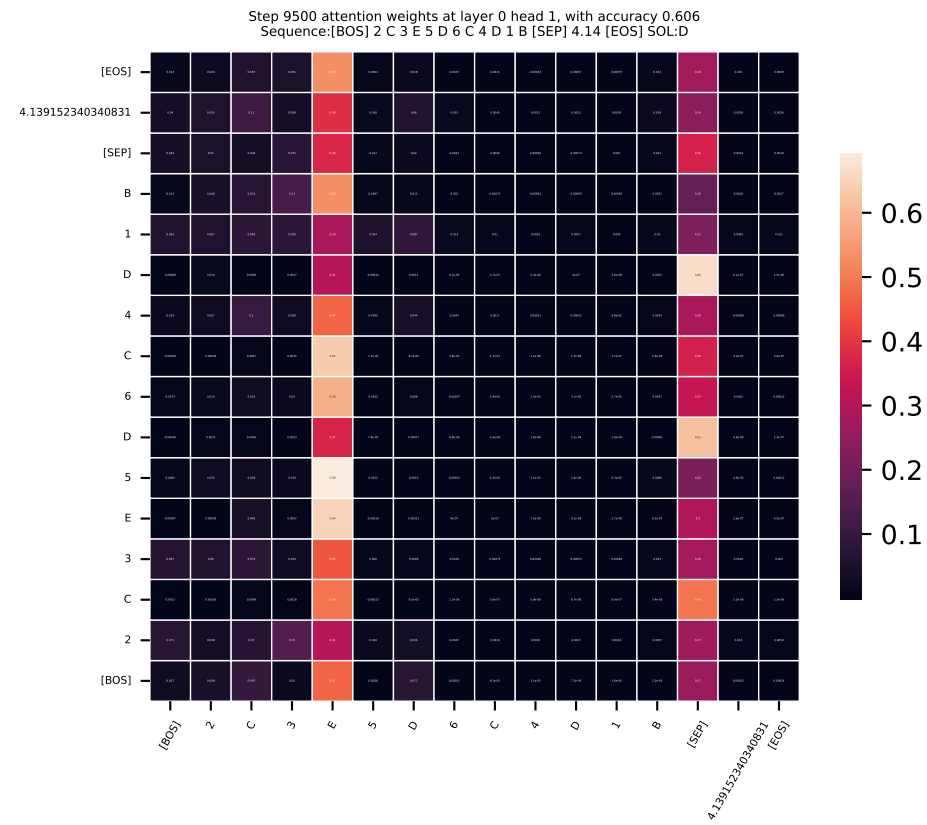
Step 9500 attention weights at layer 0 head 1, with accuracy 0.606
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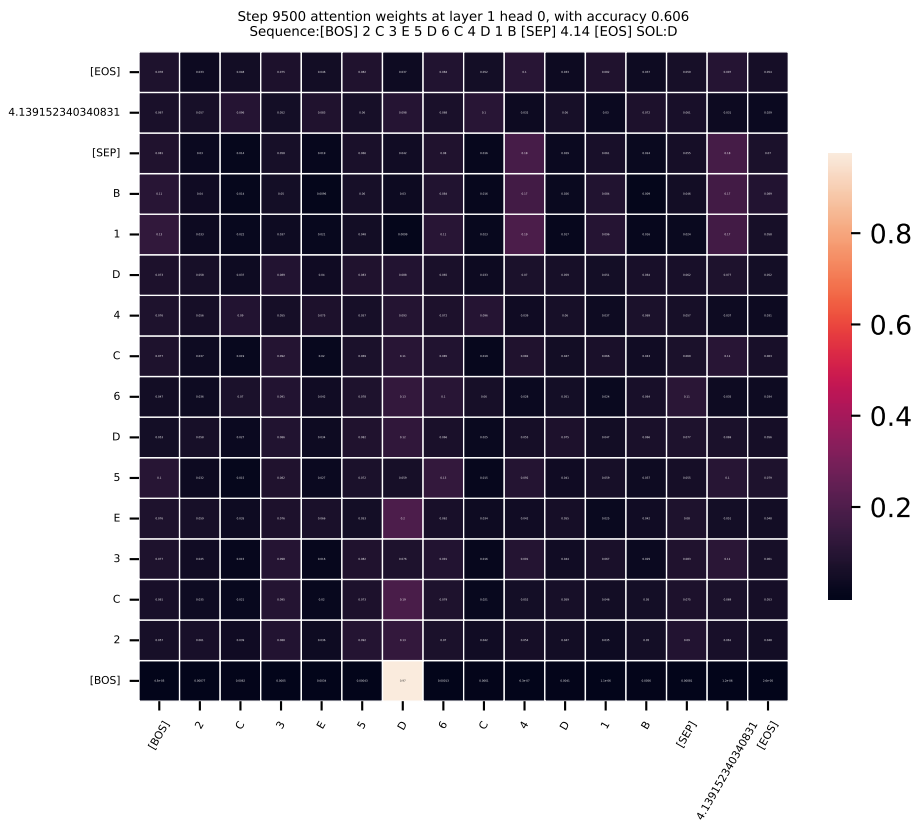
Step 9500 attention weights at layer 1 head 0, with accuracy 0.606
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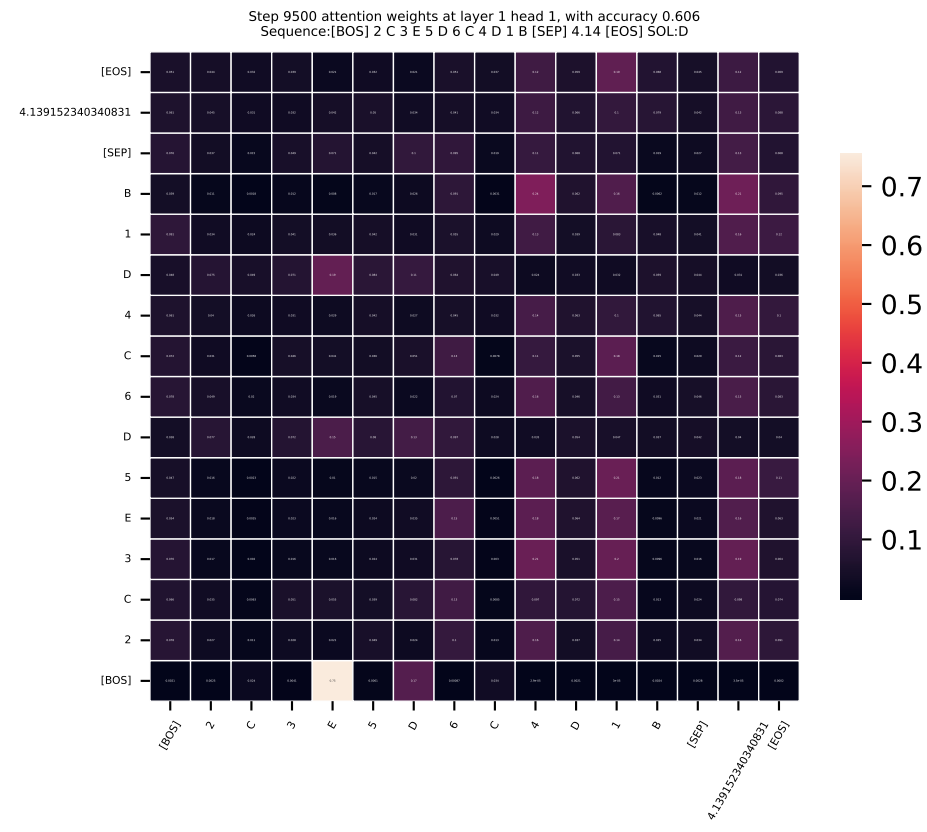
Step 9500 attention weights at layer 1 head 1, with accuracy 0.606
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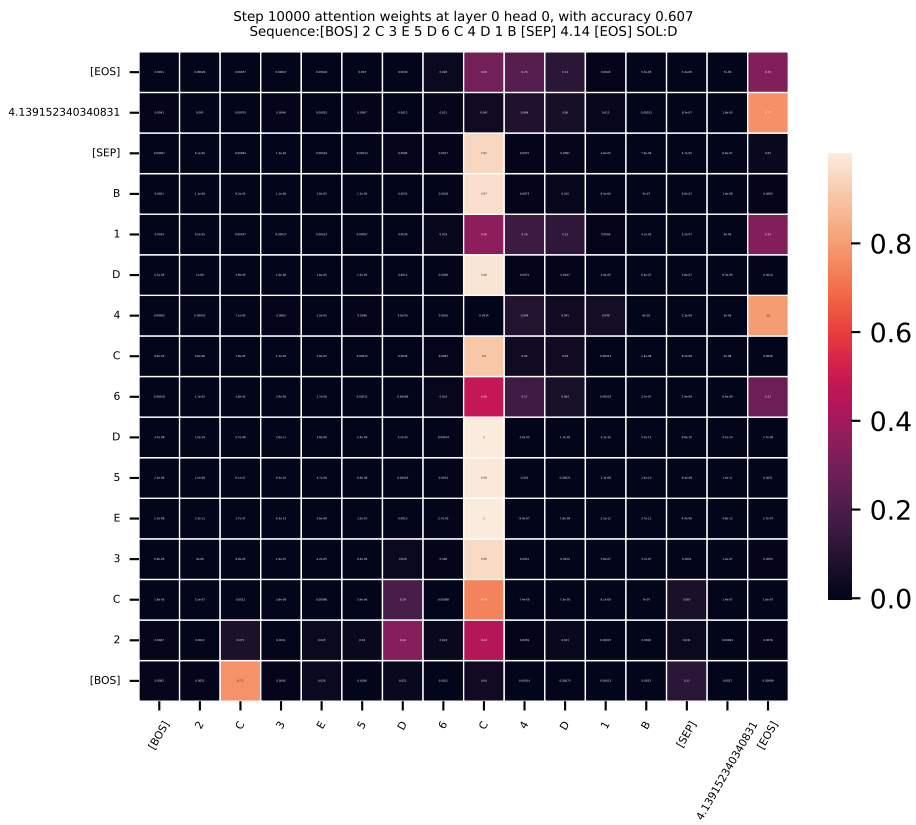
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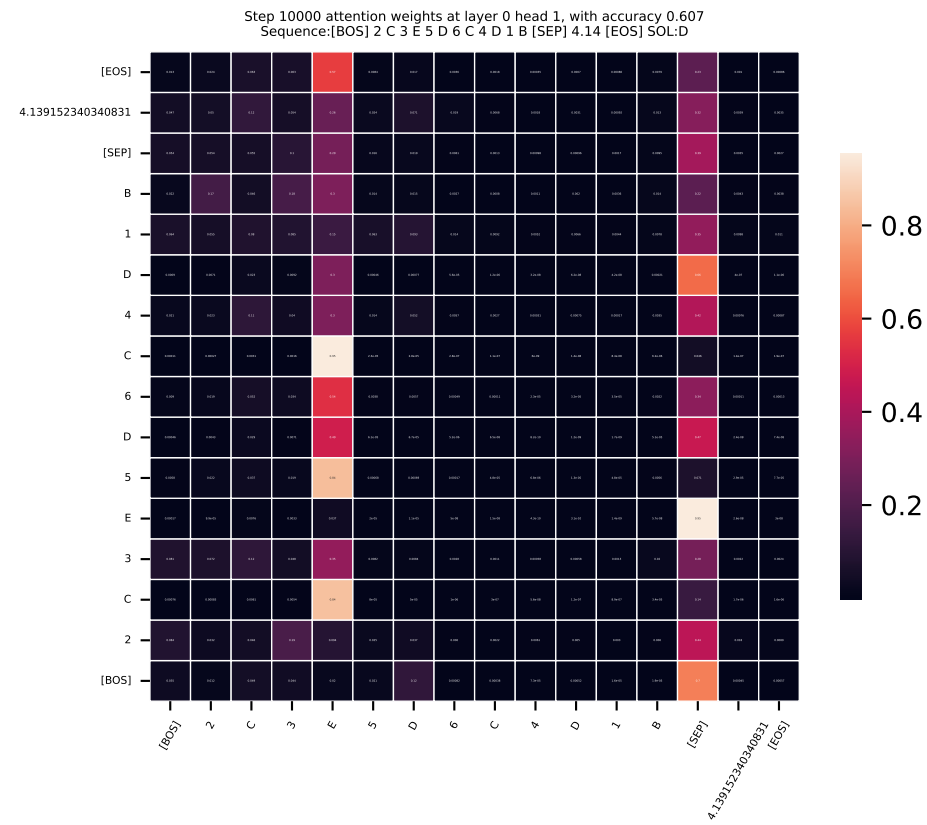
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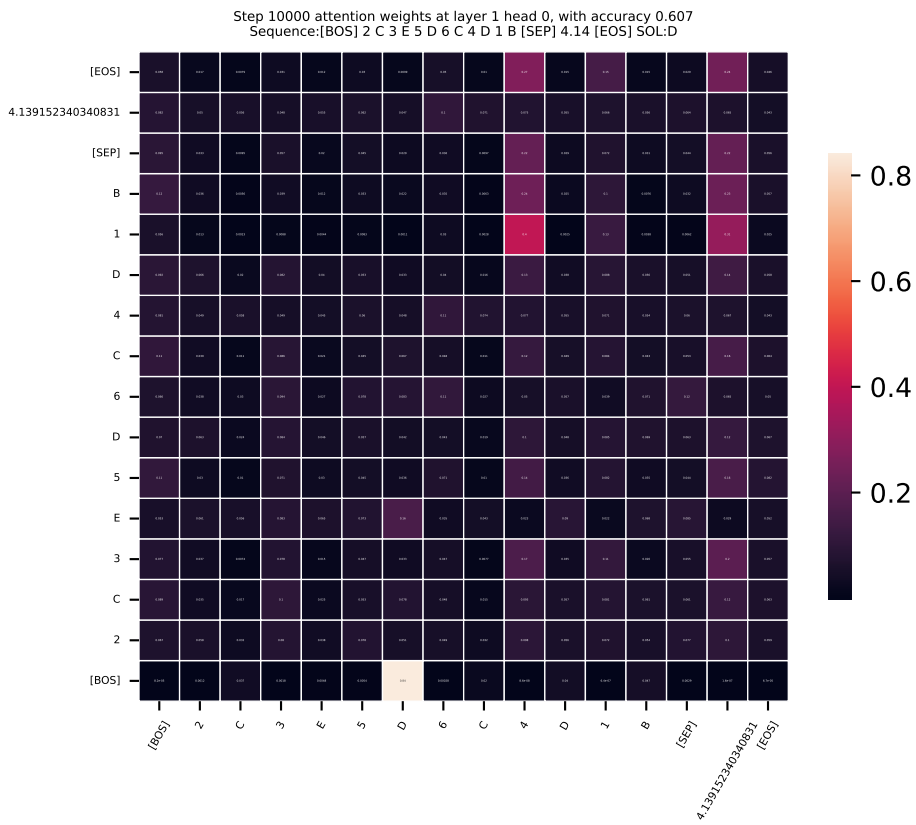
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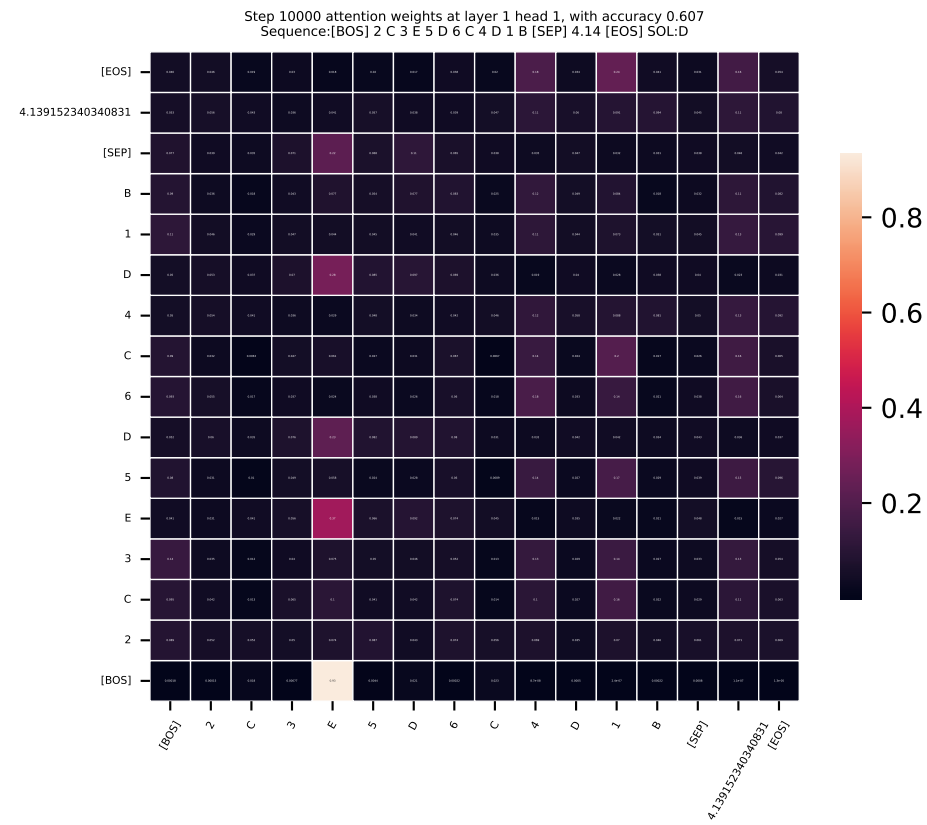
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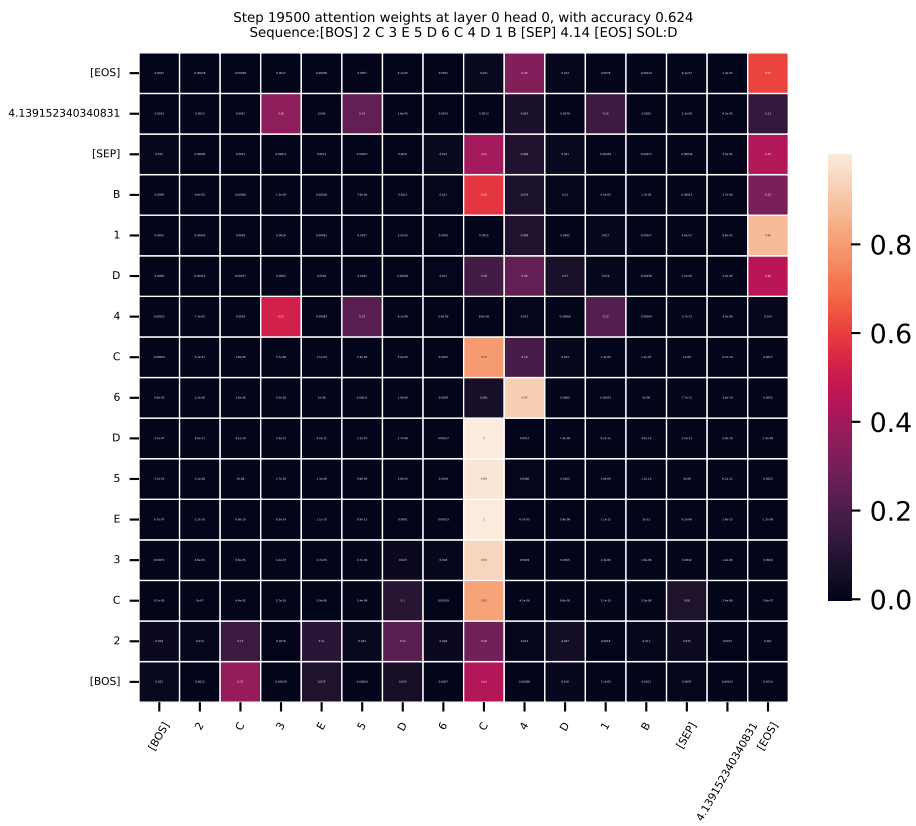
Step 19500 attention weights at layer 0 head 0, with accuracy 0.624
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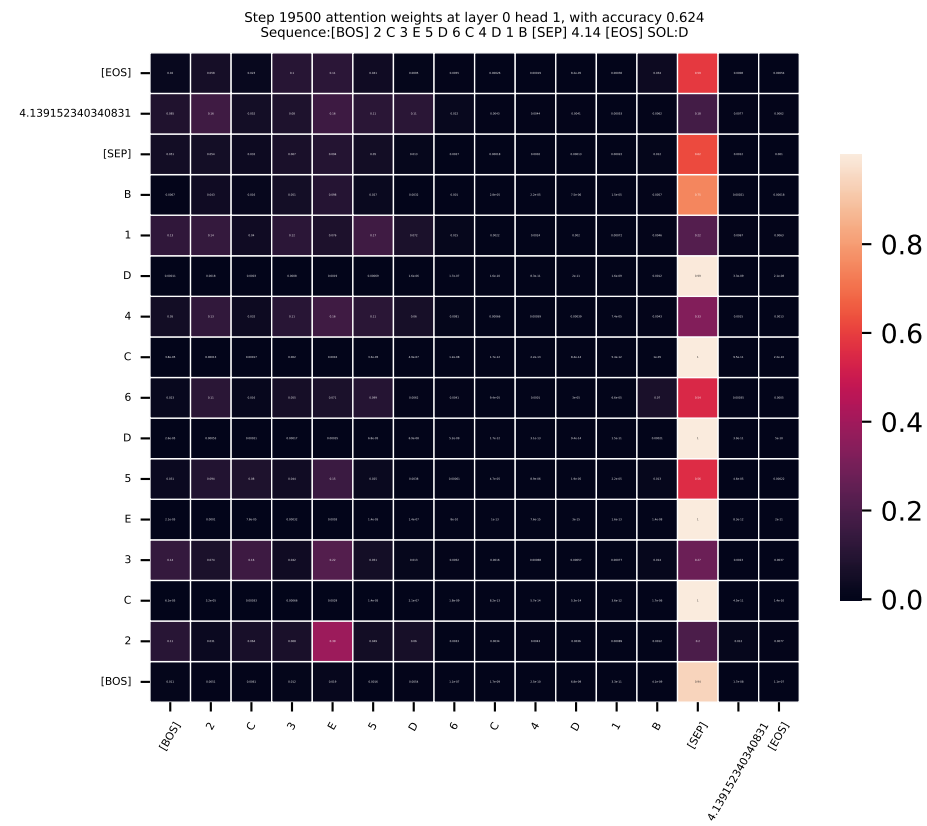
Step 19500 attention weights at layer 0 head 1, with accuracy 0.624
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[BOS]
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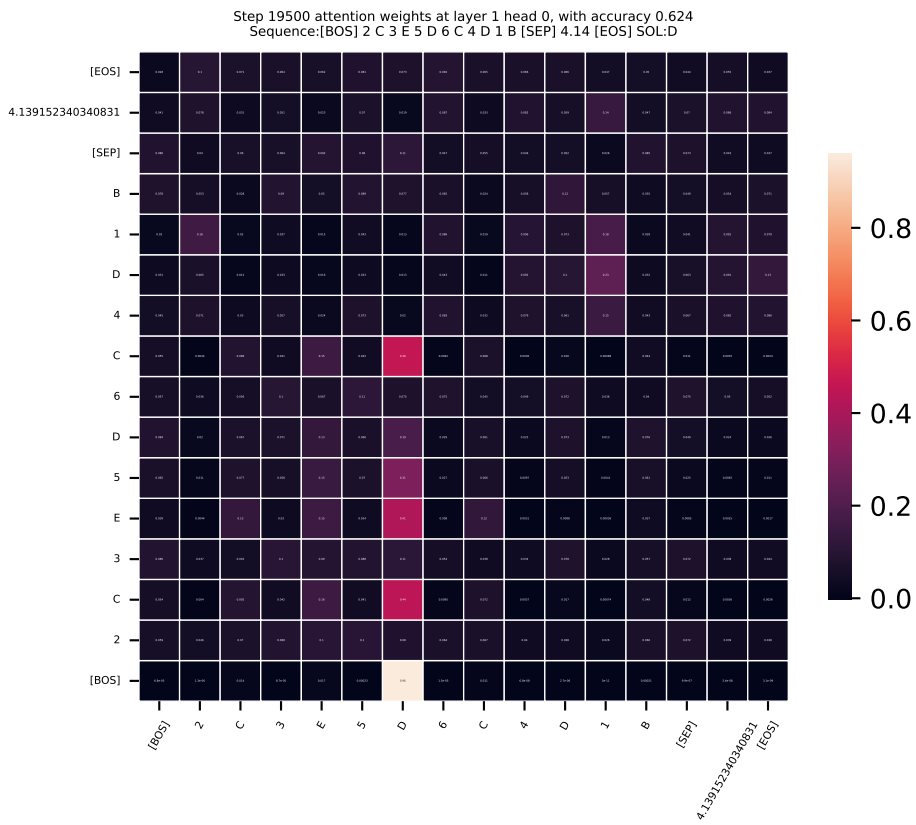
Step 19500 attention weights at layer 1 head 0, with accuracy 0.624
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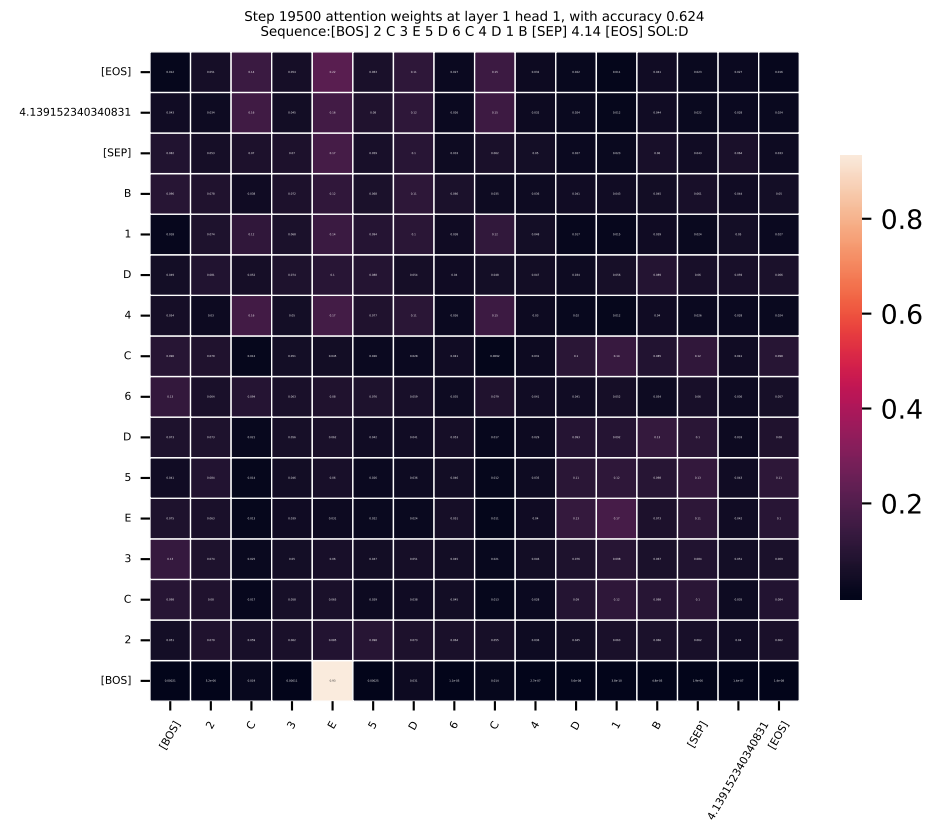
Step 19500 attention weights at layer 1 head 1, with accuracy 0.624
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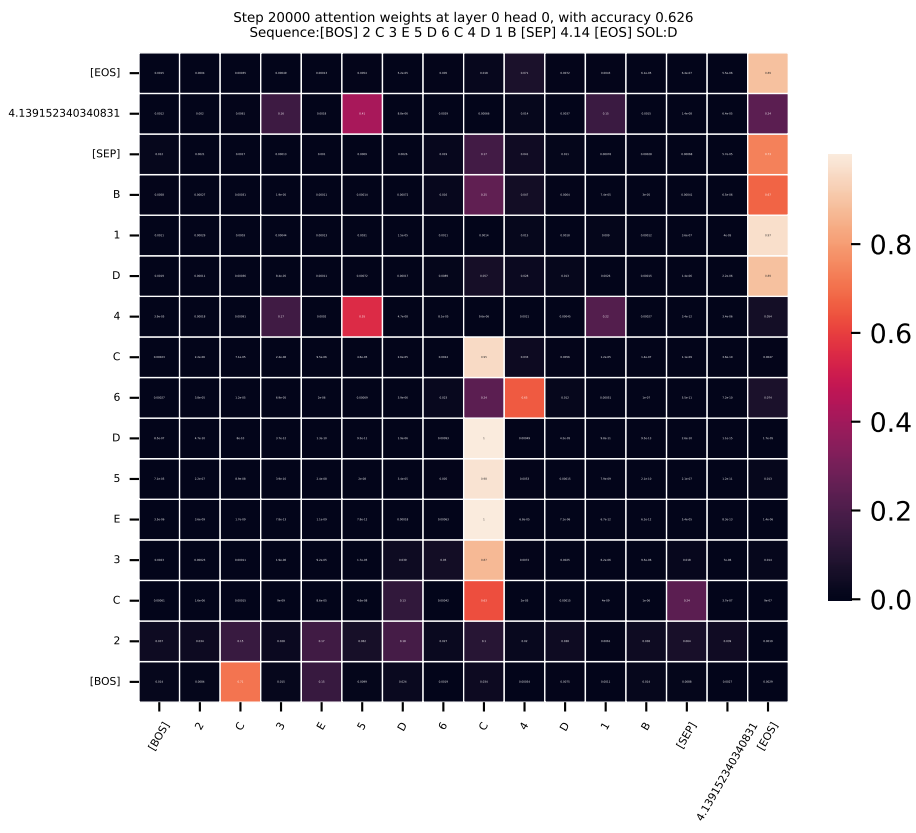
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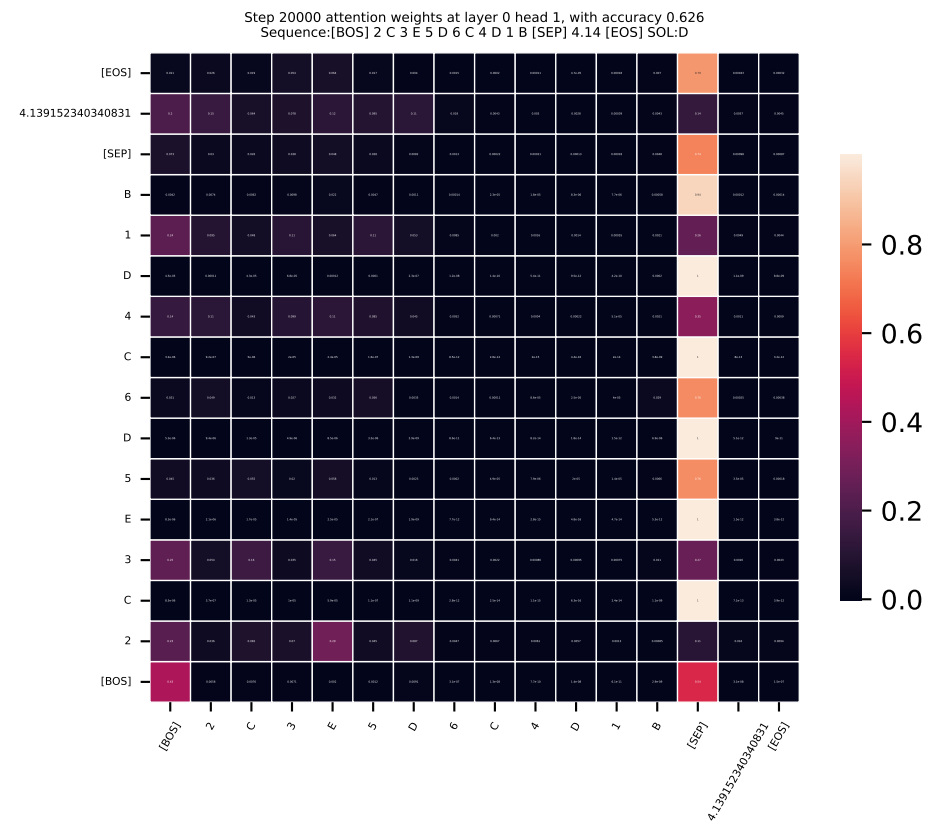
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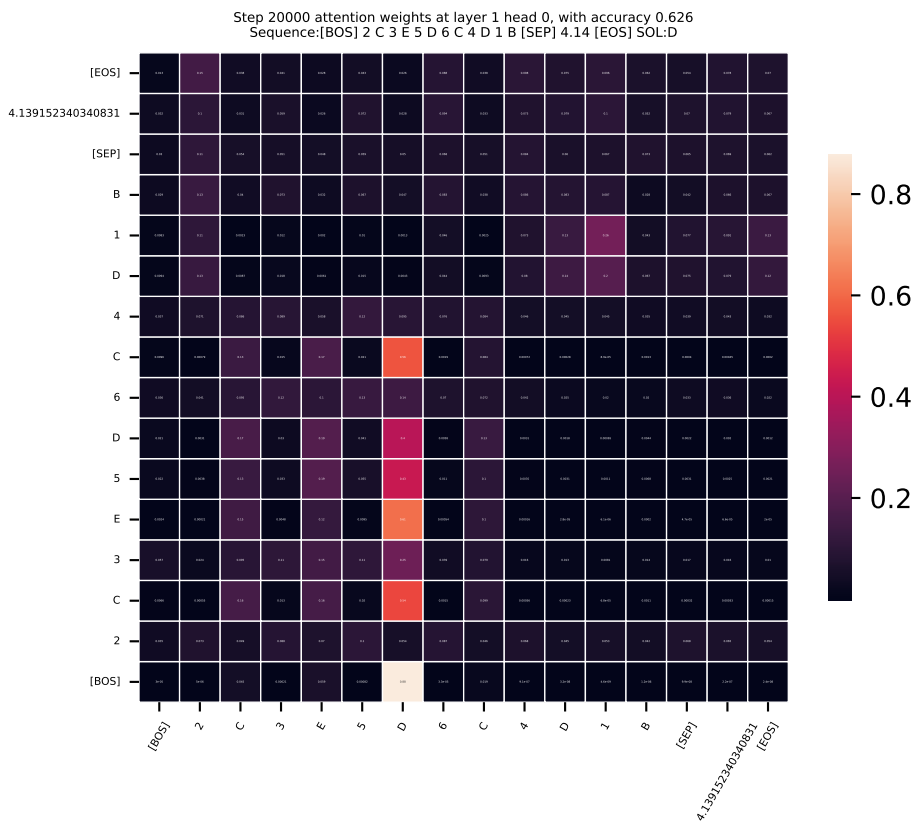
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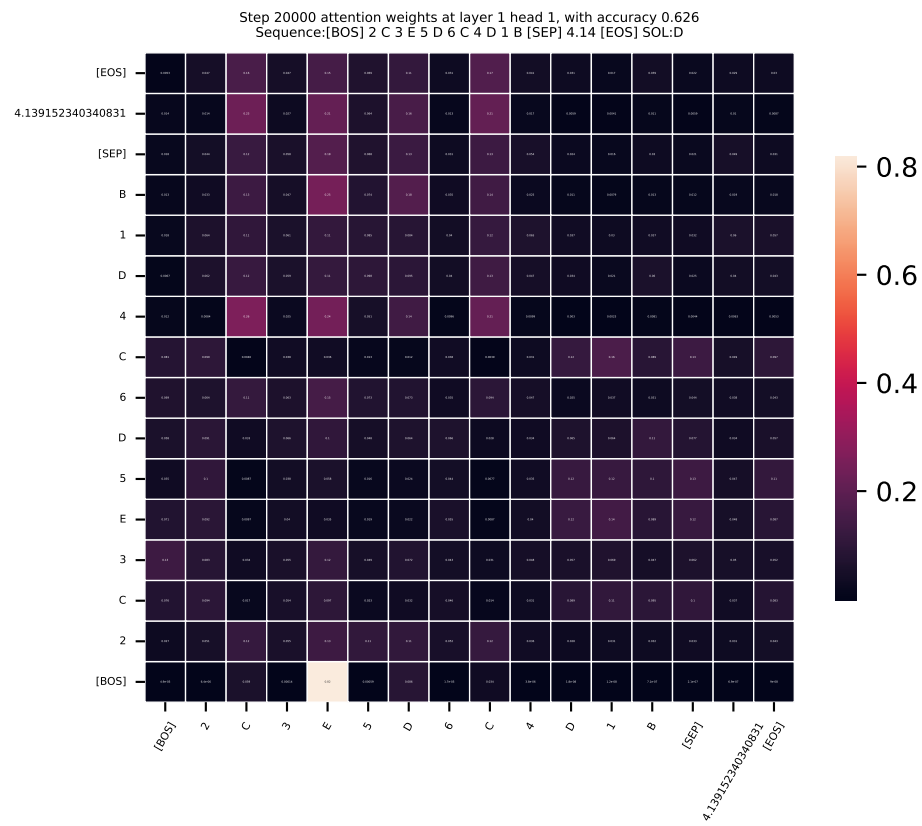
Step 20000 attention weights at layer 1 head 1, with accuracy 0.626
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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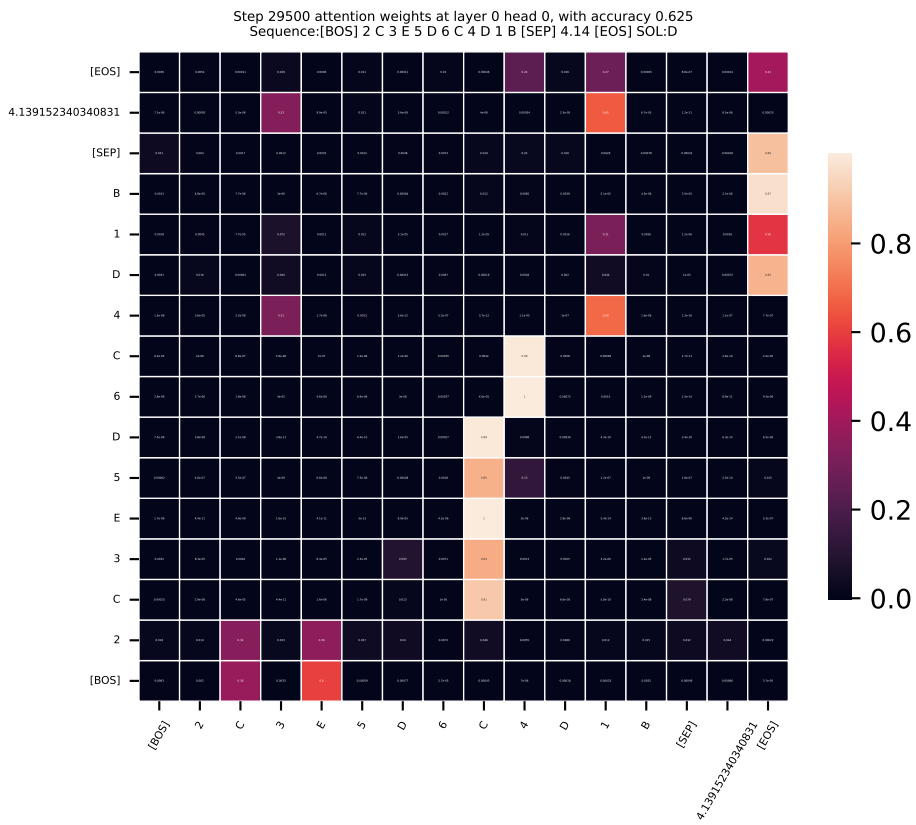
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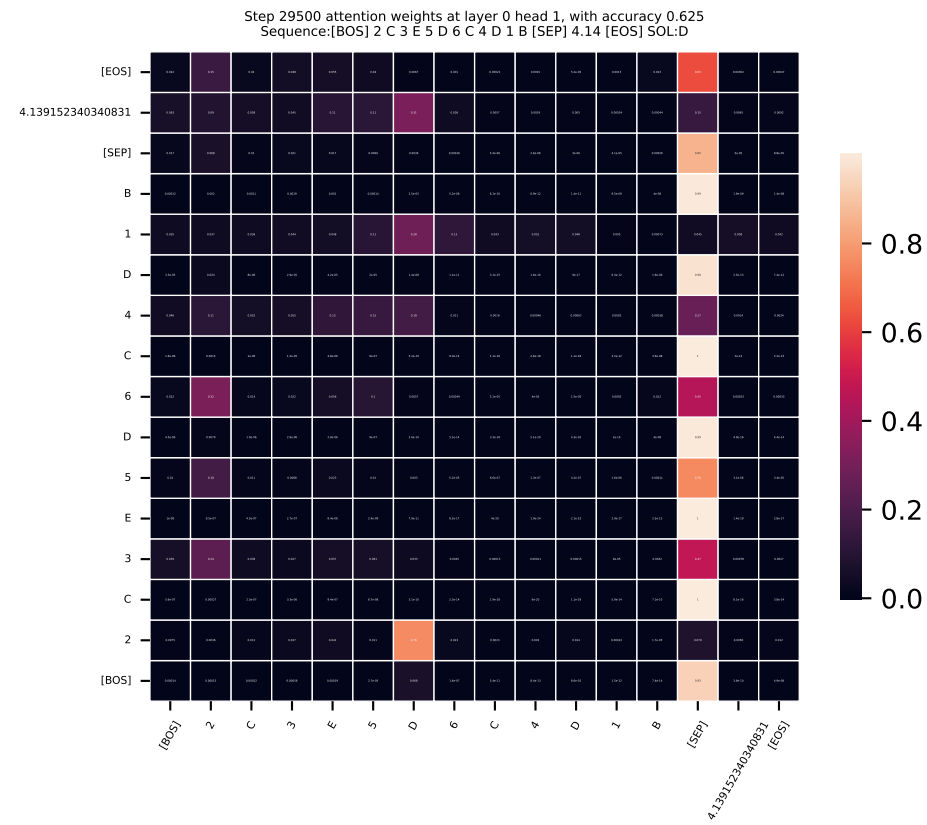
Step 29500 attention weights at layer 0 head 1, with accuracy 0.625
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
6
C
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B
[SEP]
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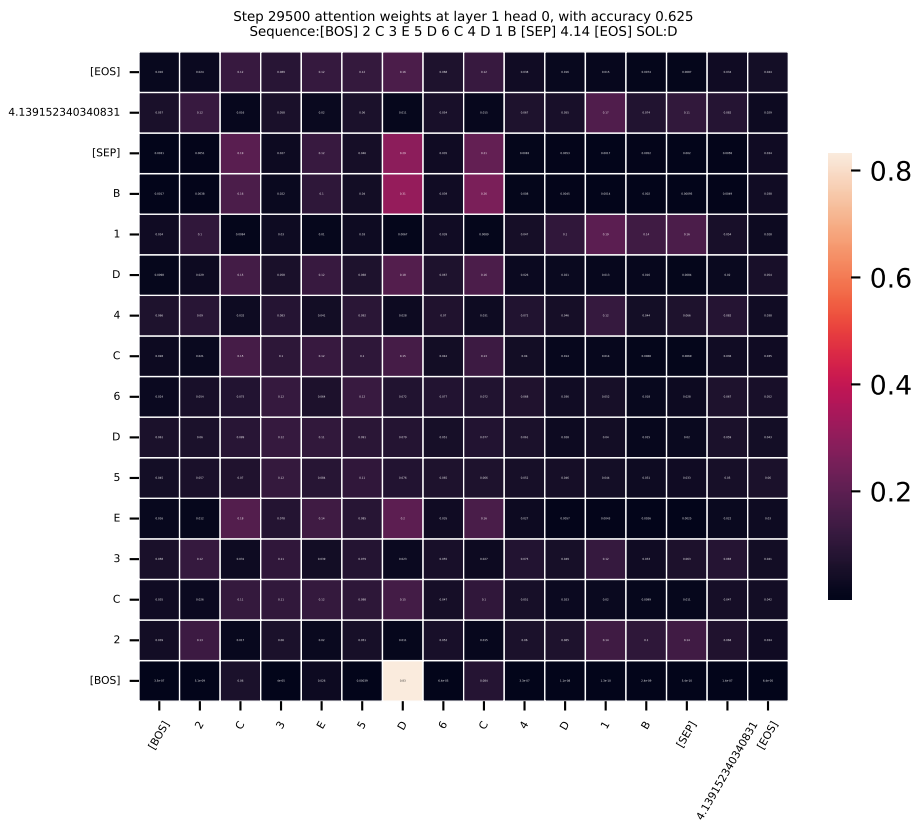
Step 29500 attention weights at layer 1 head 0, with accuracy 0.625
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
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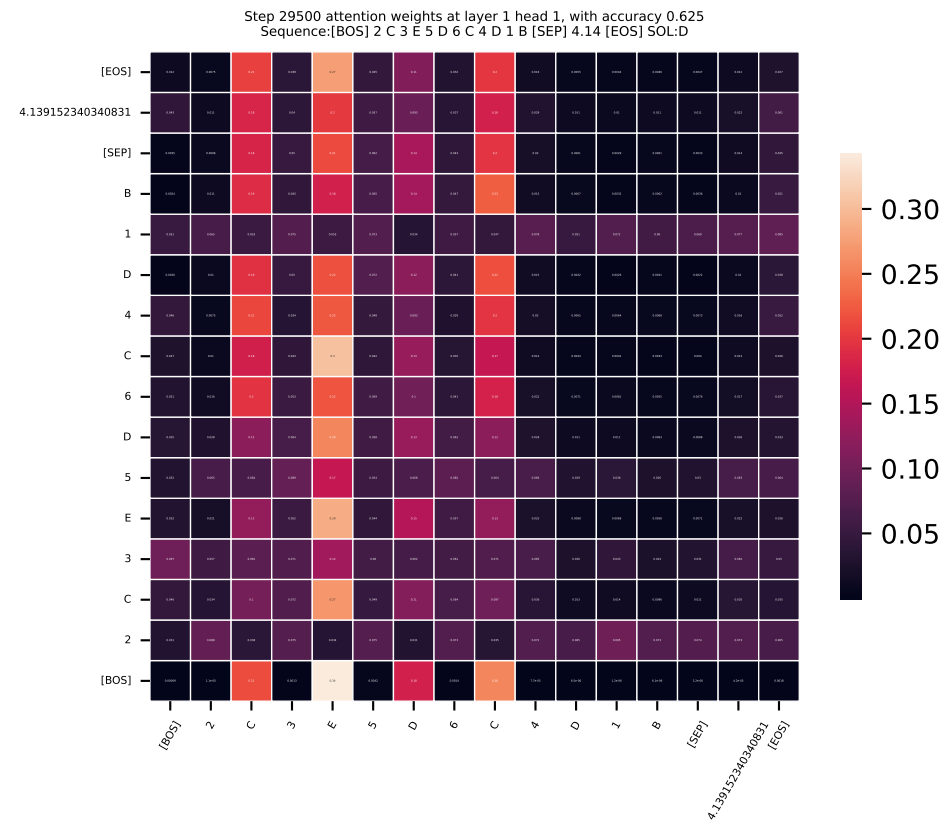
Step 29500 attention weights at layer 1 head 1, with accuracy 0.625
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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B
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D
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C
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E
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C
2
[BOS]
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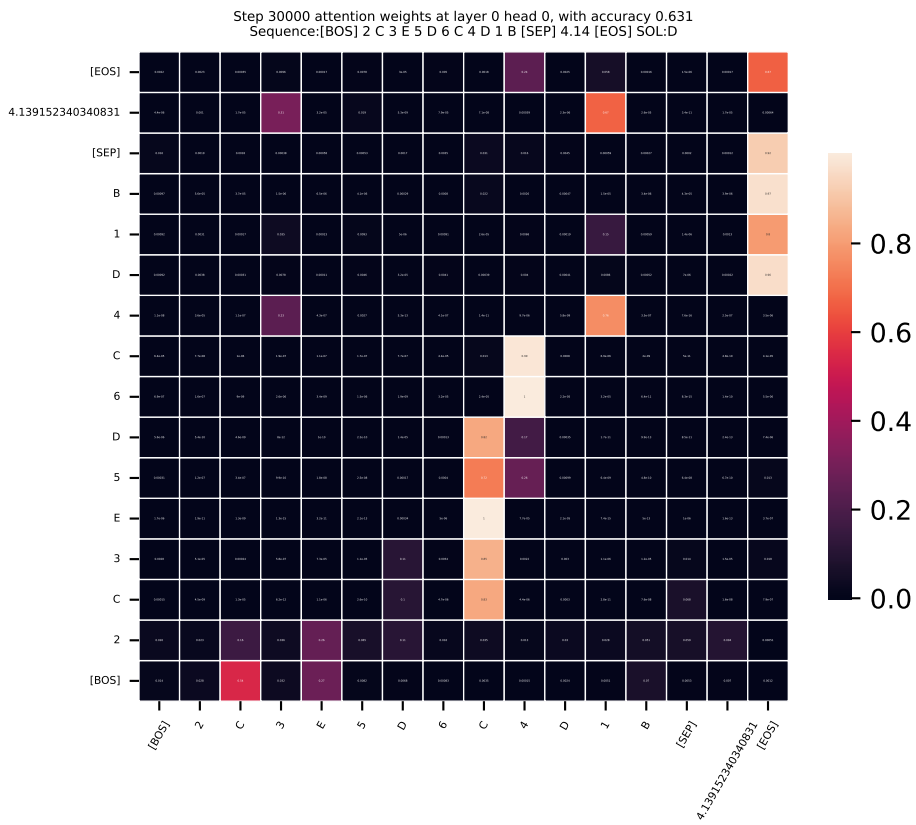
Step 30000 attention weights at layer 0 head 0, with accuracy 0.631
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[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
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D
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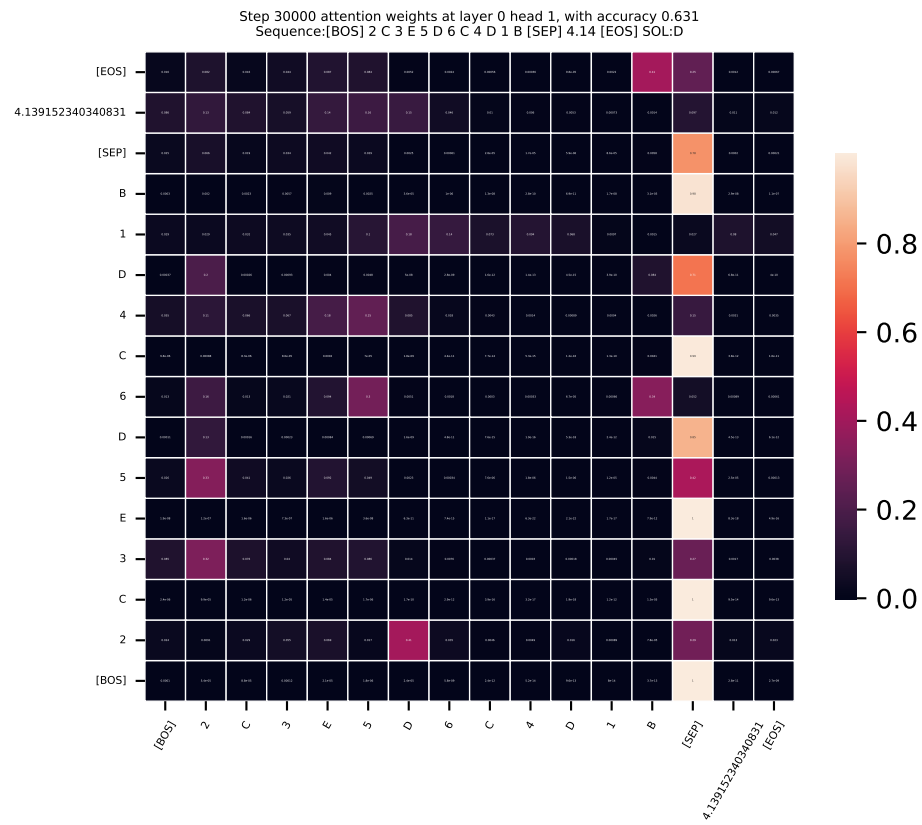
Step 30000 attention weights at layer 0 head 1, with accuracy 0.631
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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3
E
5
D
6
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B
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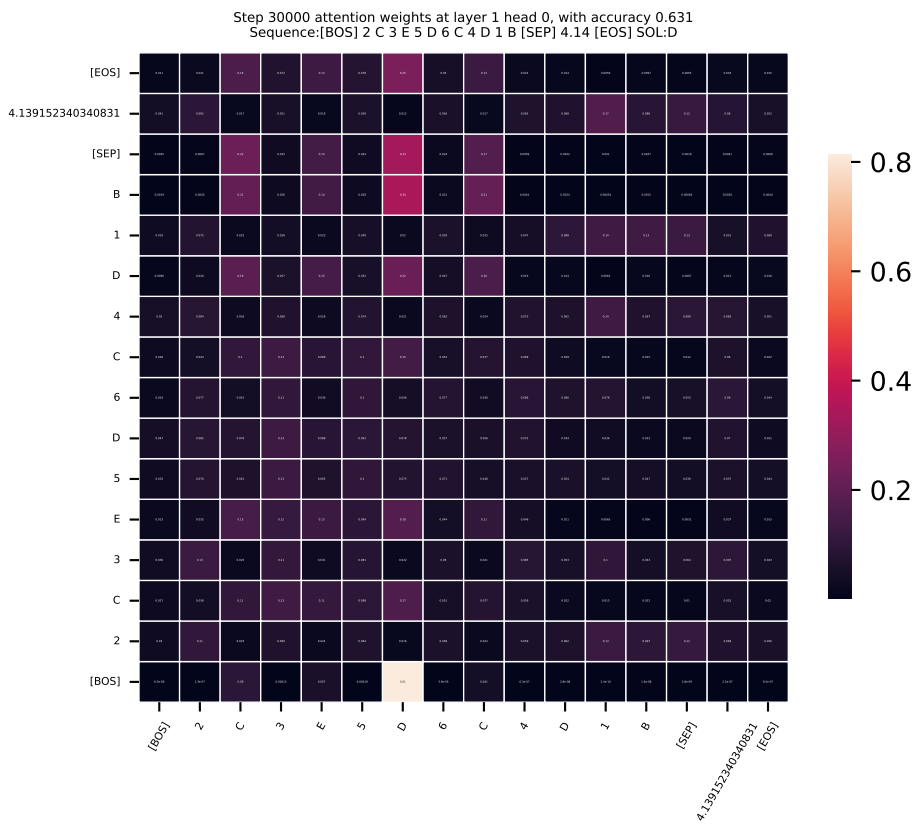
Step 30000 attention weights at layer 1 head 0, with accuracy 0.631
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
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C
6
D
5
E
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C
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[BOS]
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3
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D
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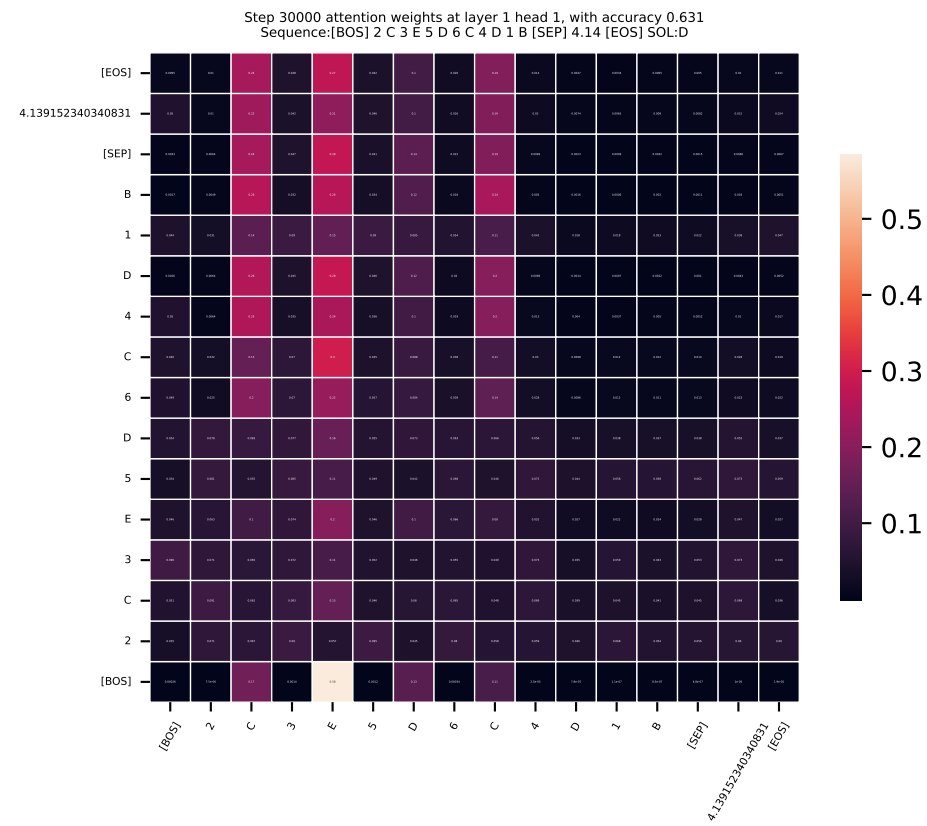
Step 30000 attention weights at layer 1 head 1, with accuracy 0.631
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
6
C
4
D
1
B
[SEP]
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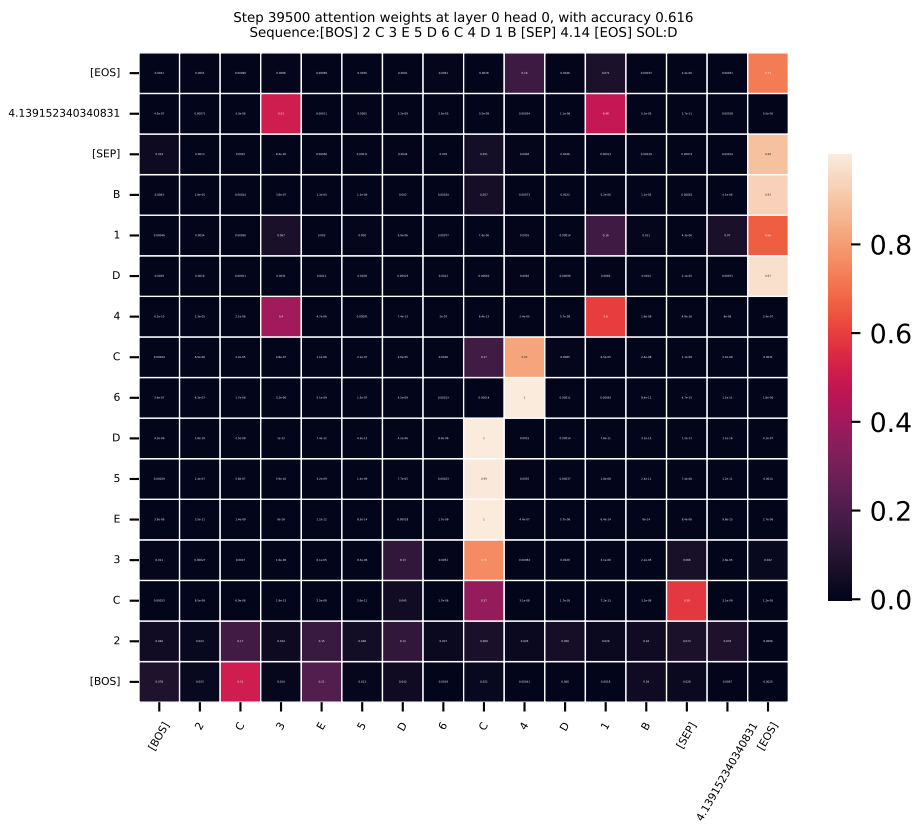
0.2
0.1


Step 39500 attention weights at layer 0 head 0, with accuracy 0.616
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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C
3
E
5
D
6
C
4
D
1
B
[SEP]
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[EOS]
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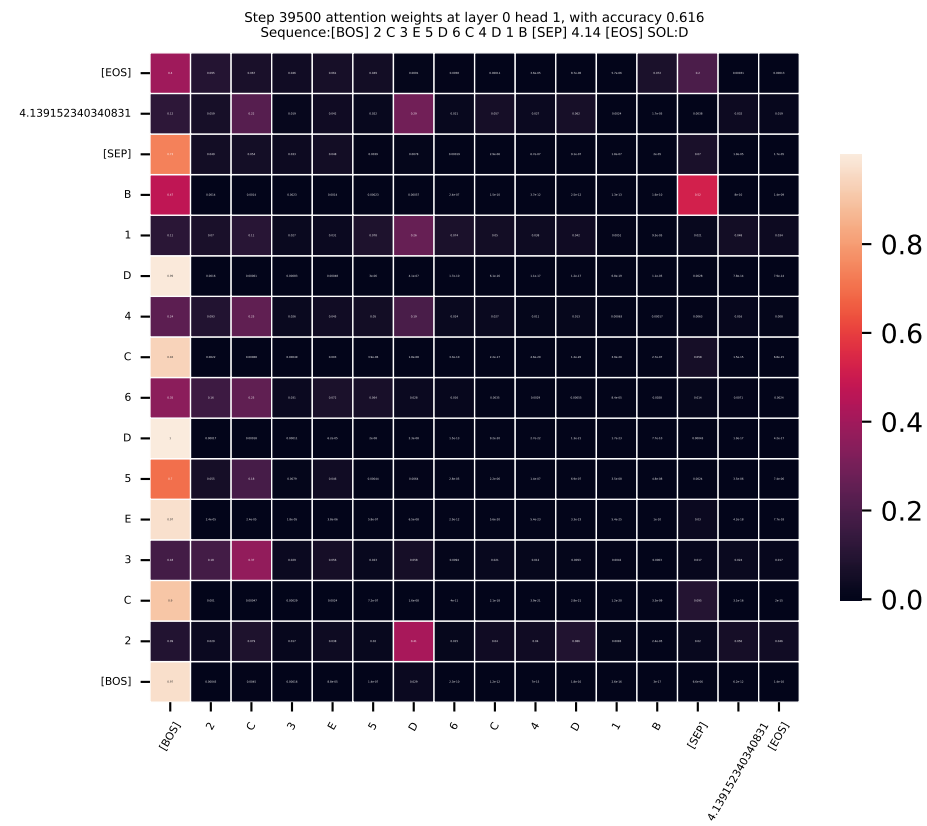
Step 39500 attention weights at layer 0 head 1, with accuracy 0.616
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
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D
4
C
6
D
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E
3
C
2
[BOS]
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3
E
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D
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1
B
[SEP]
4.139152340340831
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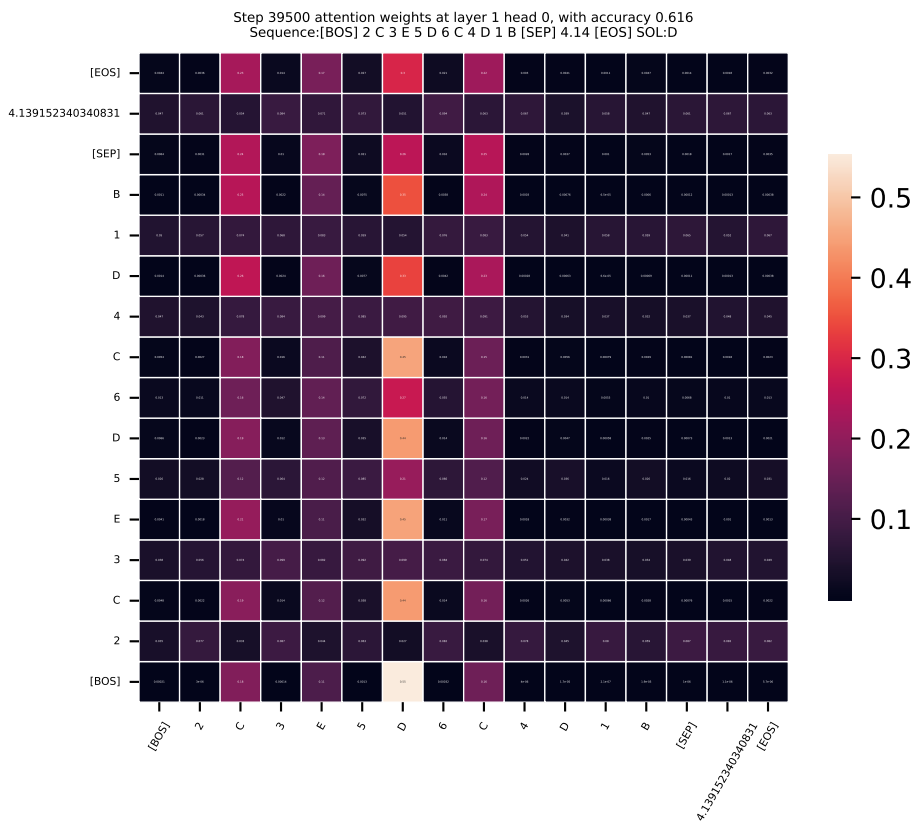
Step 39500 attention weights at layer 1 head 0, with accuracy 0.616
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
1
D
4
C
6
D
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E
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C
2
[BOS]
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E
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B
[SEP]
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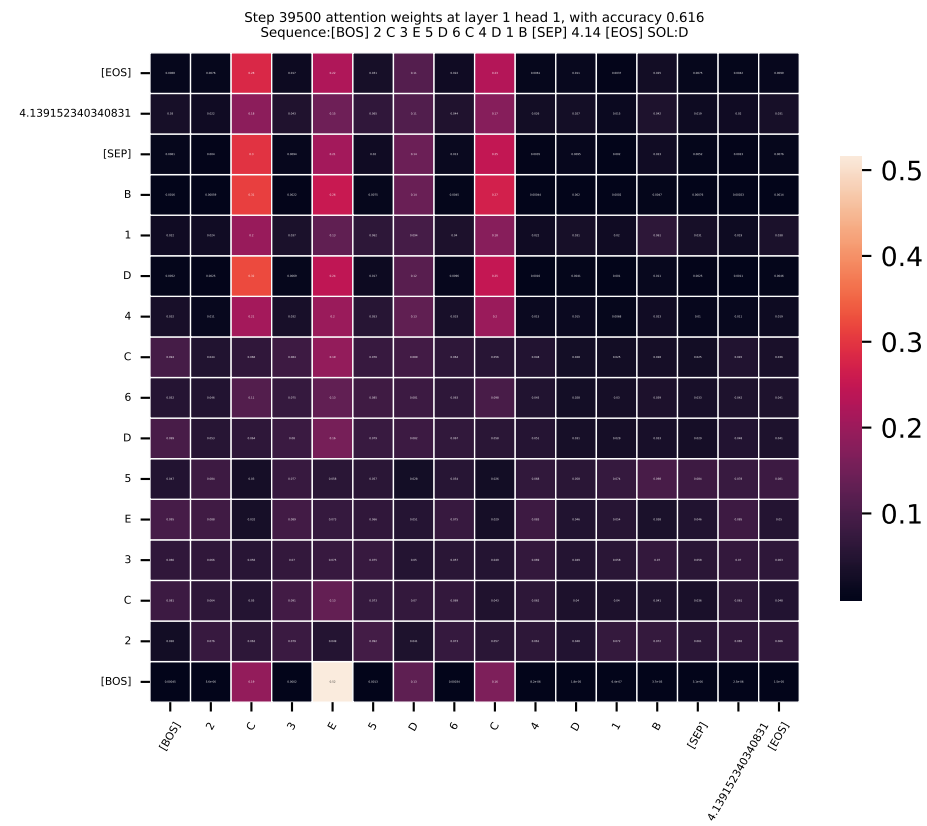
Step 39500 attention weights at layer 1 head 1, with accuracy 0.616
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
4
C
6
D
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E
3
C
2
[BOS]
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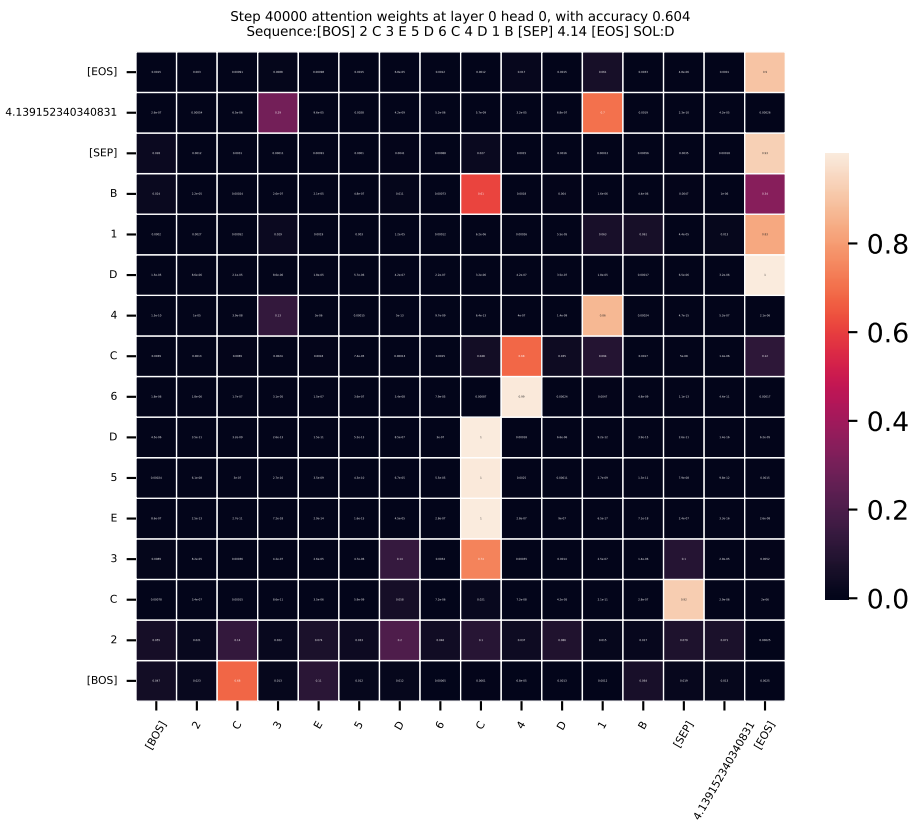
Step 40000 attention weights at layer 0 head 0, with accuracy 0.604
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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3
E
5
D
6
C
4
D
1
B
[SEP]
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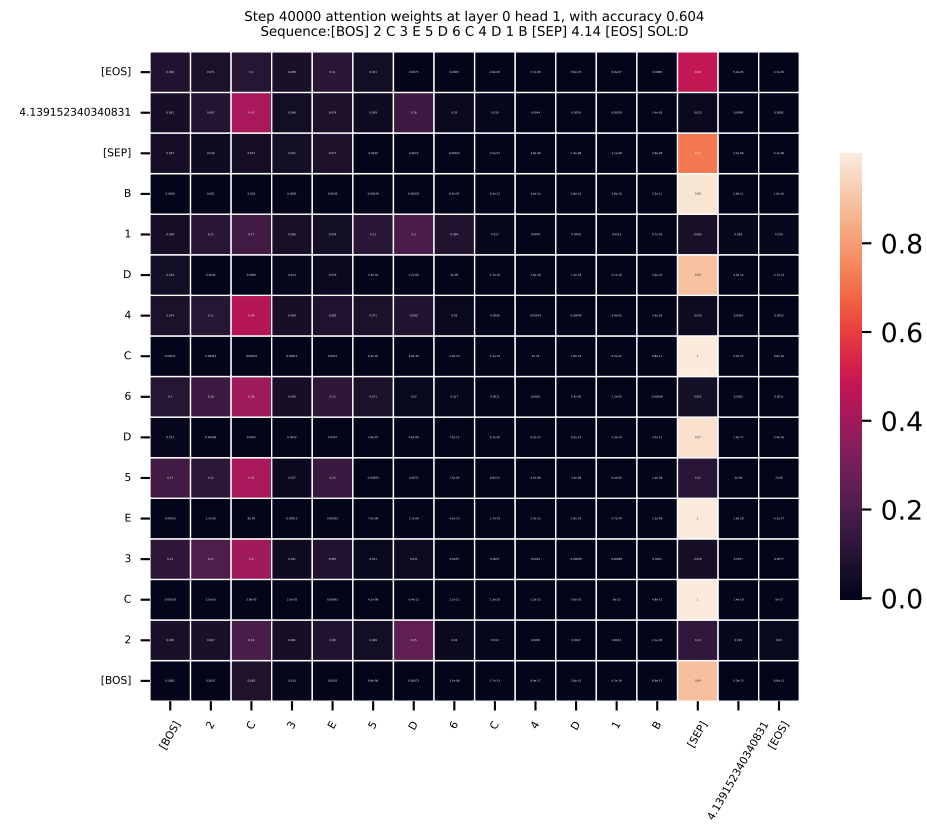
Step 40000 attention weights at layer 0 head 1, with accuracy 0.604
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D
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C
6
D
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E
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C
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D
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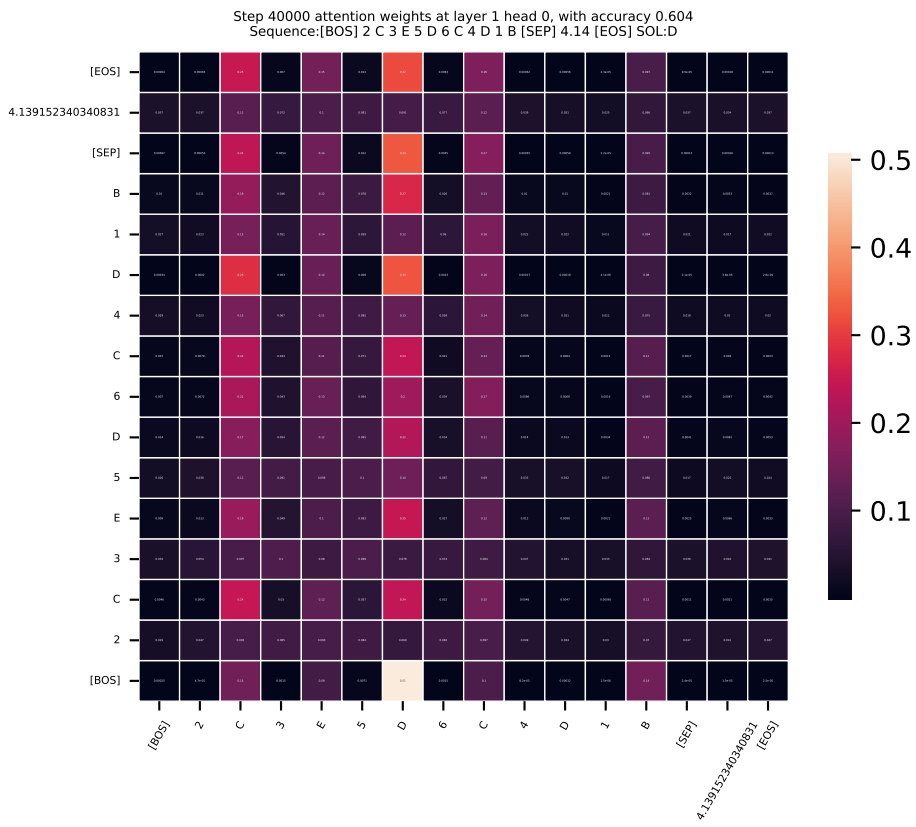
Step 40000 attention weights at layer 1 head 0, with accuracy 0.604
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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B
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D
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C
6
D
5
E
3
C
2
[BOS]
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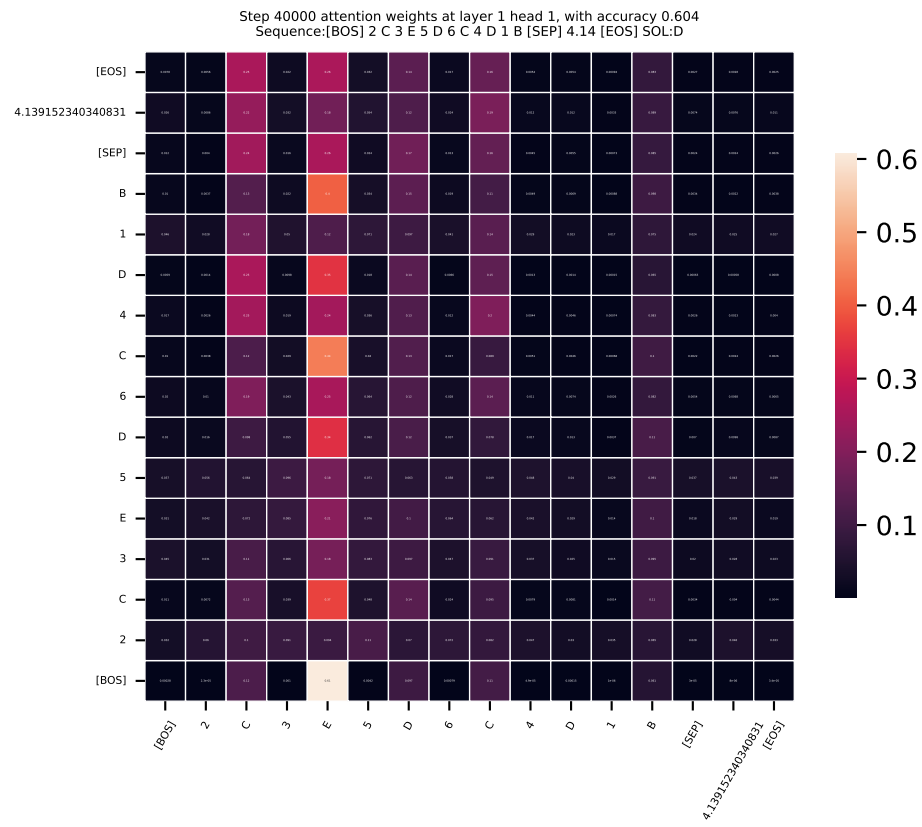
Step 40000 attention weights at layer 1 head 1, with accuracy 0.604
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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C
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D
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E
3
C
2
[BOS]
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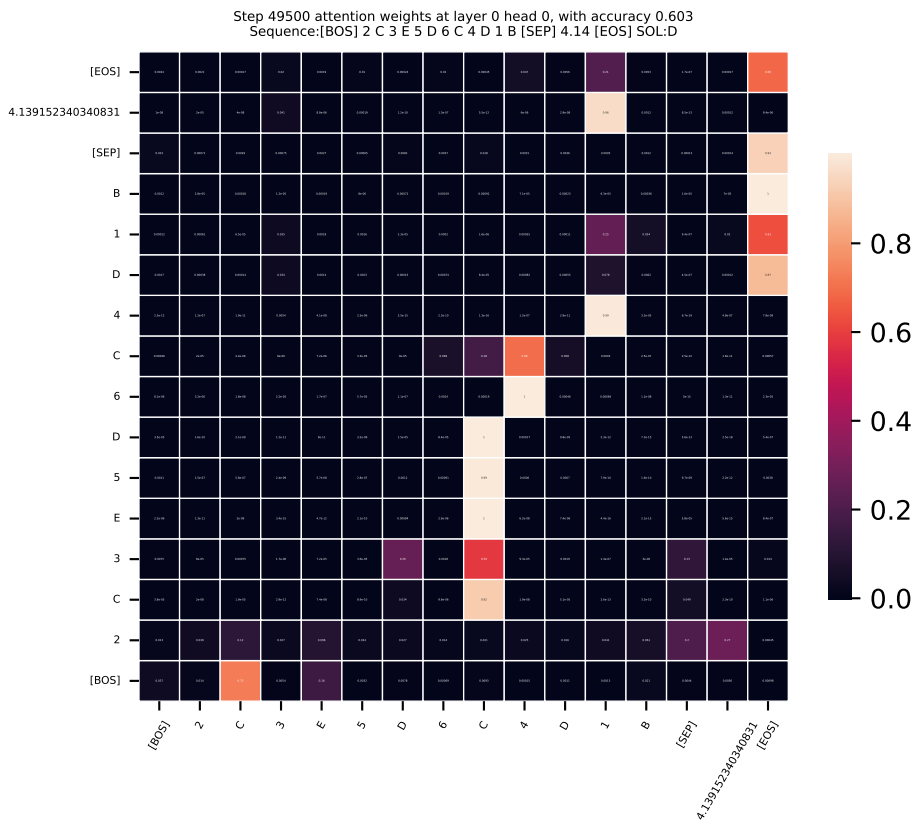
Step 49500 attention weights at layer 0 head 0, with accuracy 0.603
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
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D
4
C
6
D
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E
3
C
2
[BOS]
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E
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D
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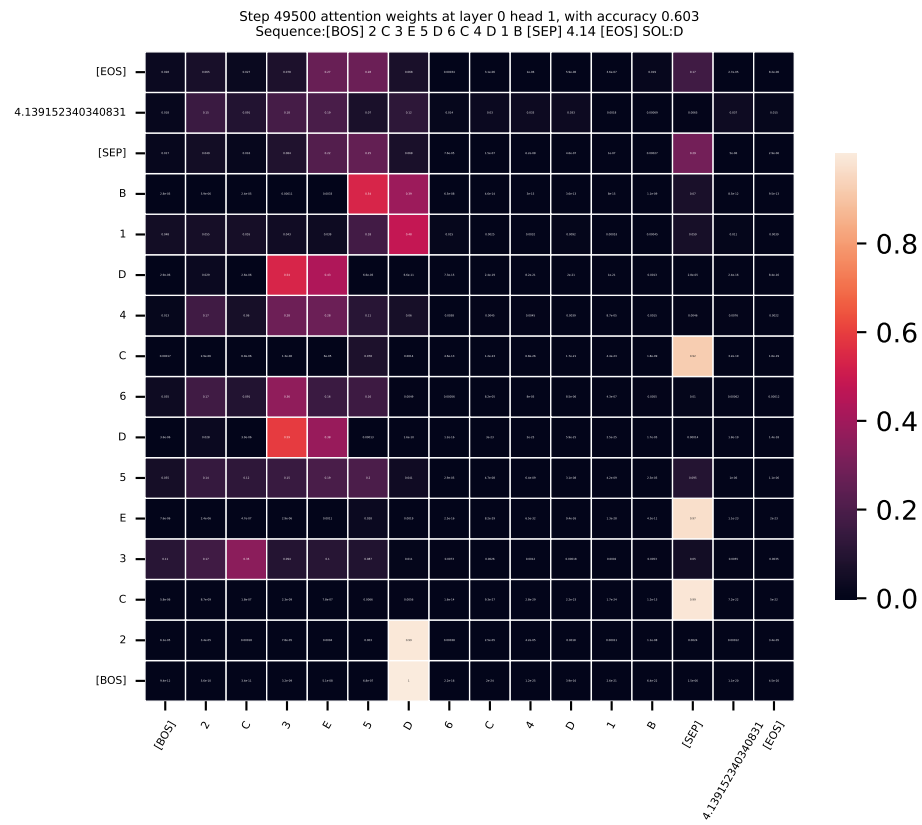
Step 49500 attention weights at layer 0 head 1, with accuracy 0.603
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B
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D
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E
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C
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[BOS]
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E
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D
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B
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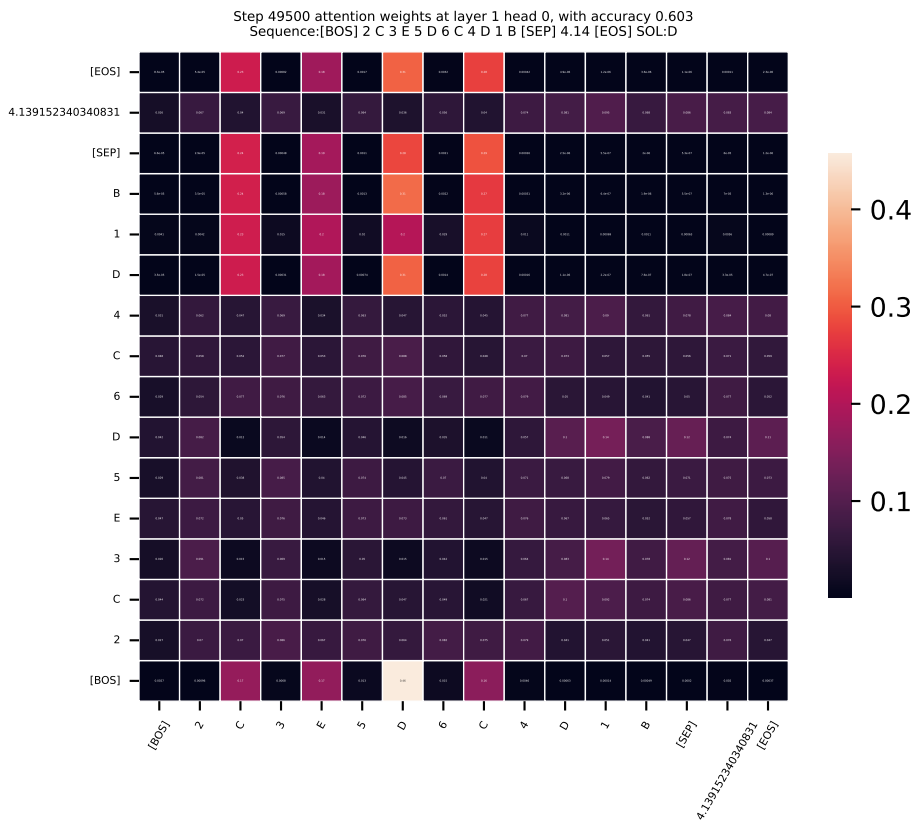
Step 49500 attention weights at layer 1 head 0, with accuracy 0.603
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
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D
5
E
3
C
2
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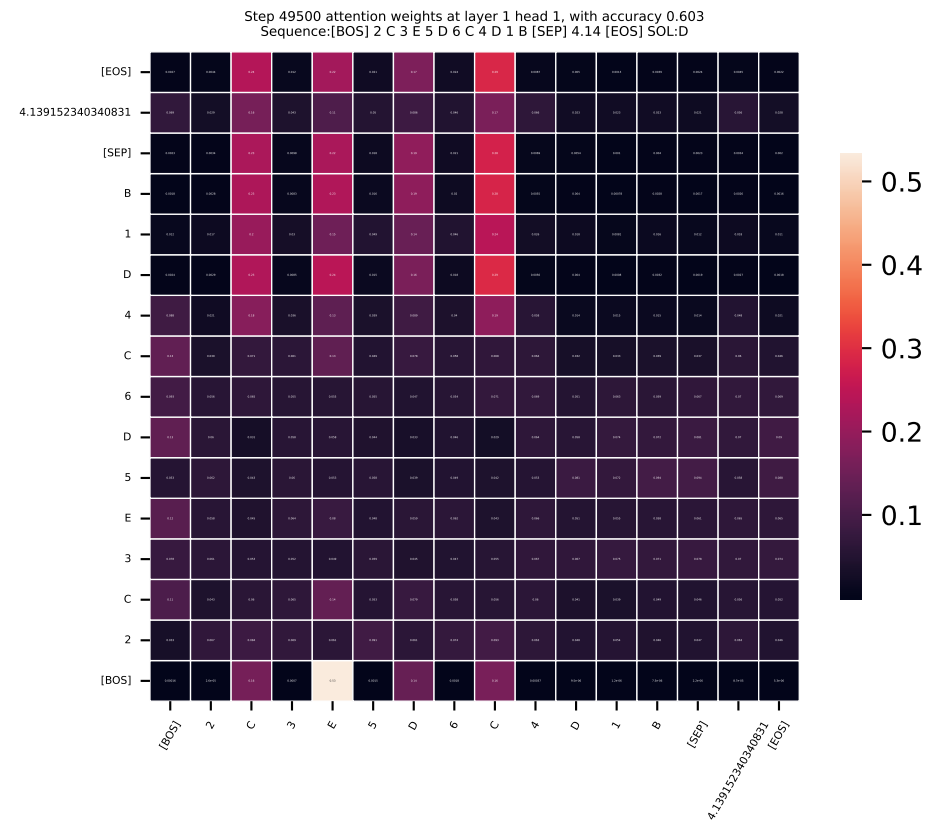
0.1


Step 49500 attention weights at layer 1 head 1, with accuracy 0.603
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
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D
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C
6
D
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E
3
C
2
[BOS]
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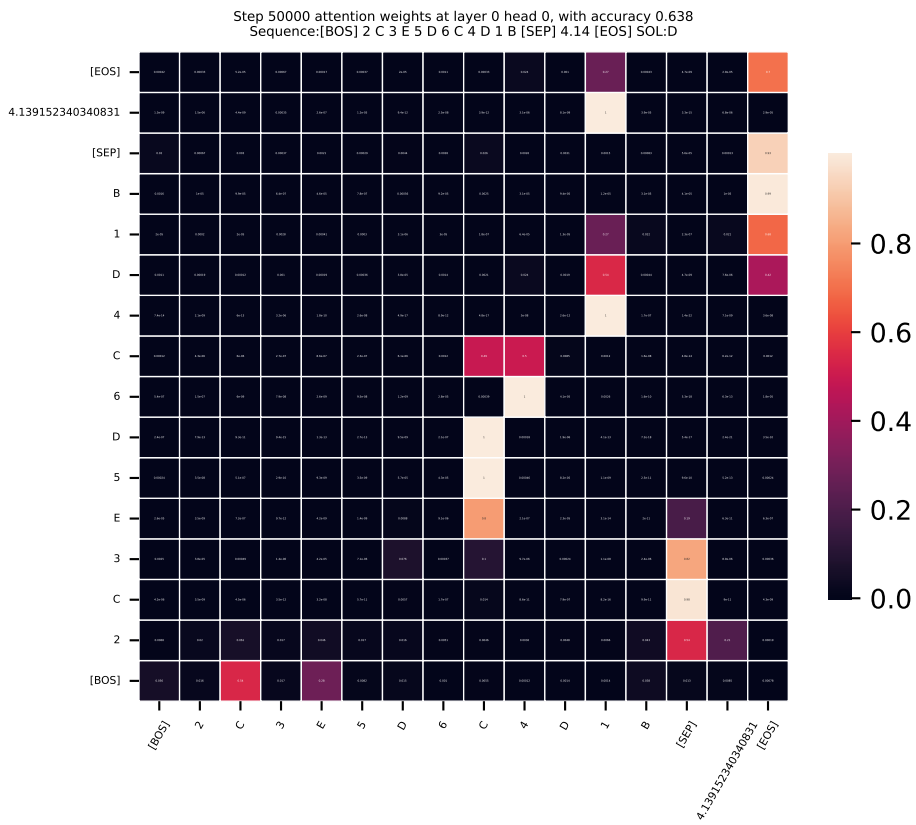
Step 50000 attention weights at layer 0 head 0, with accuracy 0.638
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
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3
E
5
D
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B
[SEP]
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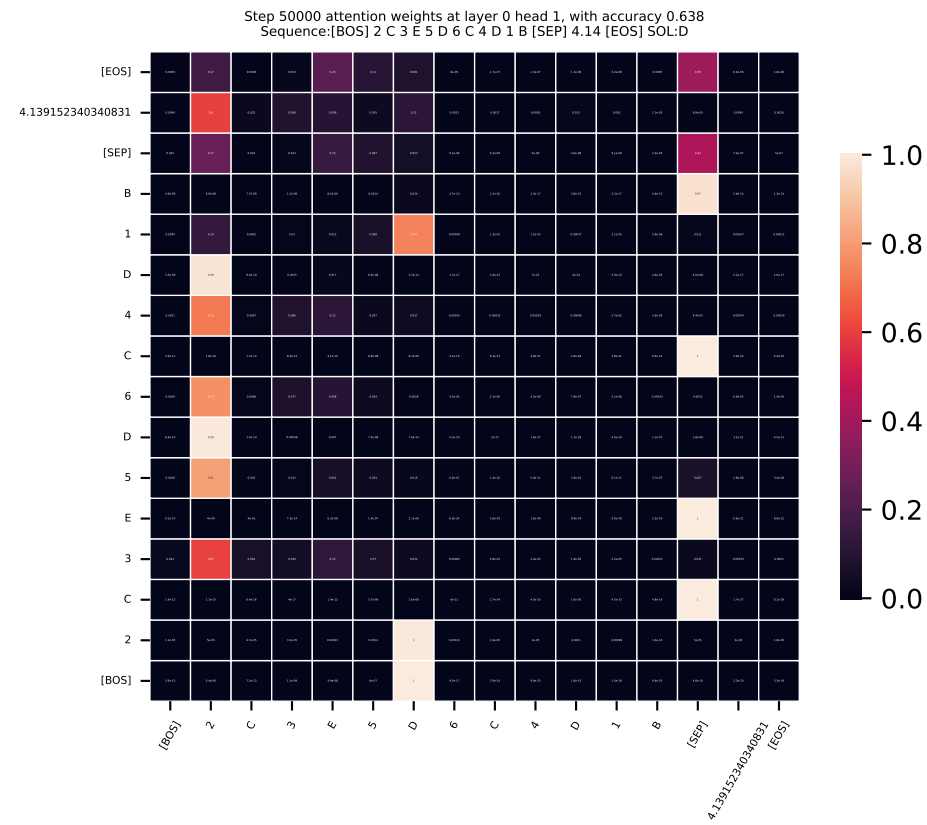
Step 50000 attention weights at layer 0 head 1, with accuracy 0.638
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
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D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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3
E
5
D
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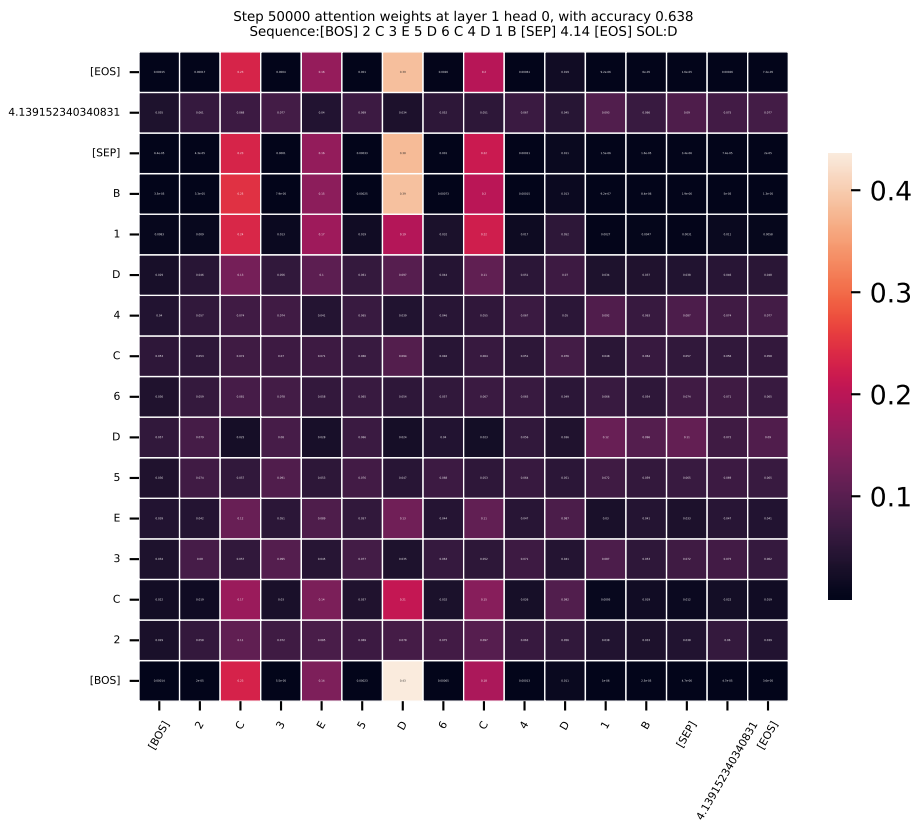
Step 50000 attention weights at layer 1 head 0, with accuracy 0.638
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
1
D
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5
E
3
C
2
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[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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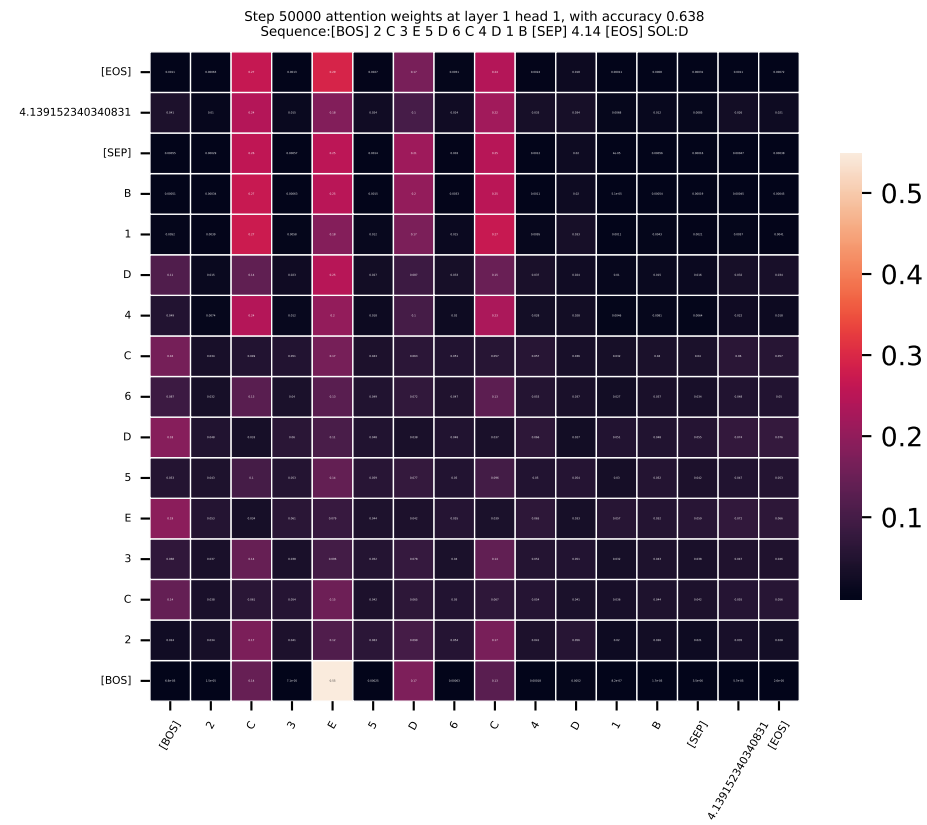
0.3
0.2
0.1


Step 50000 attention weights at layer 1 head 1, with accuracy 0.638
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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B
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3
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2
[BOS]
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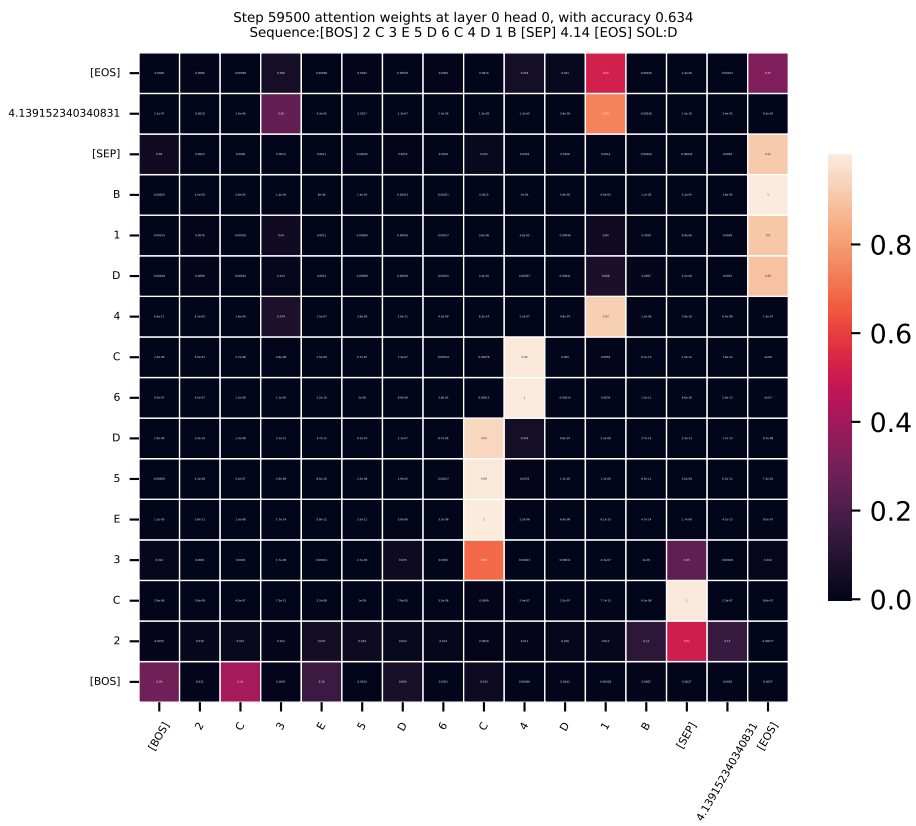
Step 59500 attention weights at layer 0 head 0, with accuracy 0.634
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B
1
D
4
C
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D
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E
3
C
2
[BOS]
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C
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E
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D
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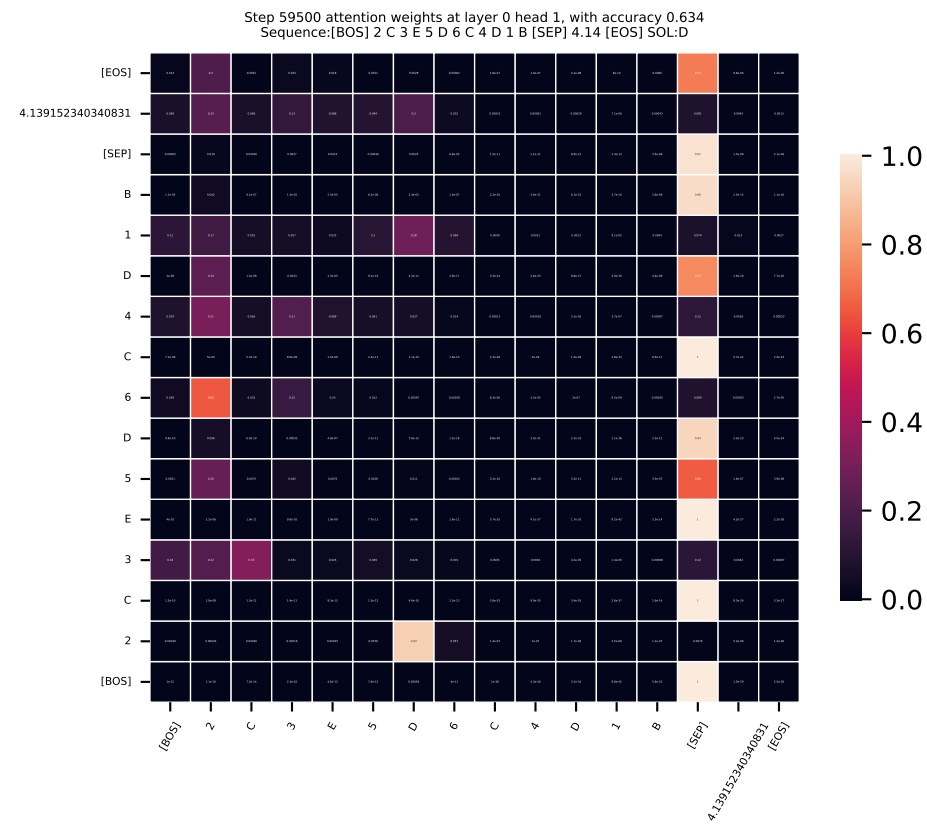
Step 59500 attention weights at layer 0 head 1, with accuracy 0.634
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B
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D
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C
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D
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D
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[SEP]
4.139152340340831
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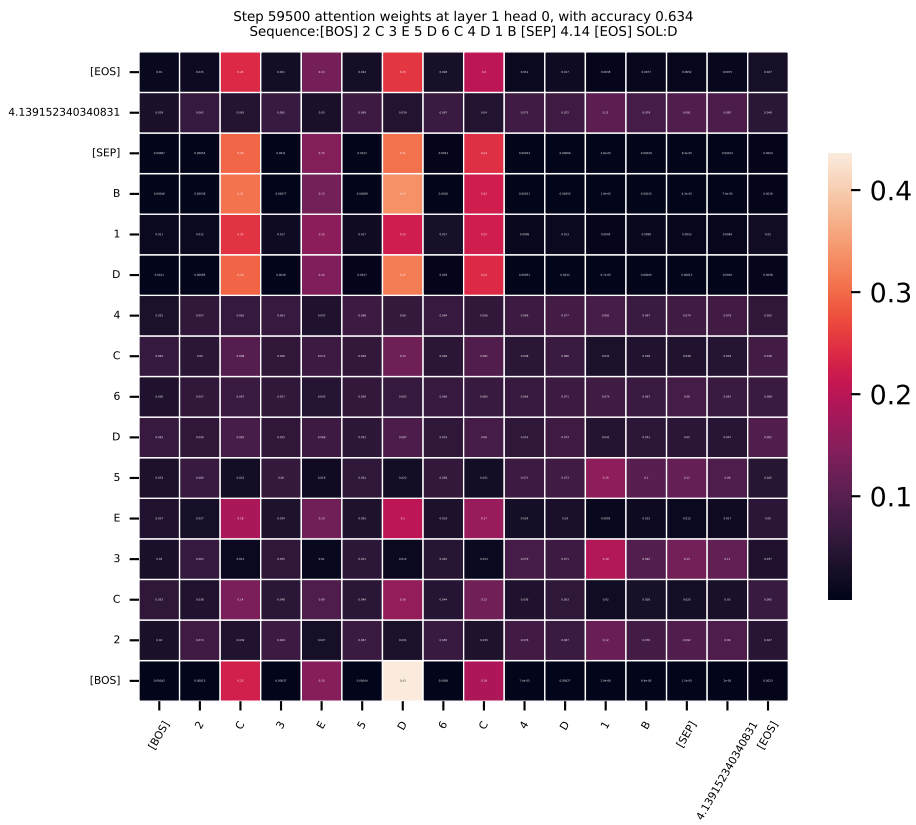
Step 59500 attention weights at layer 1 head 0, with accuracy 0.634
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
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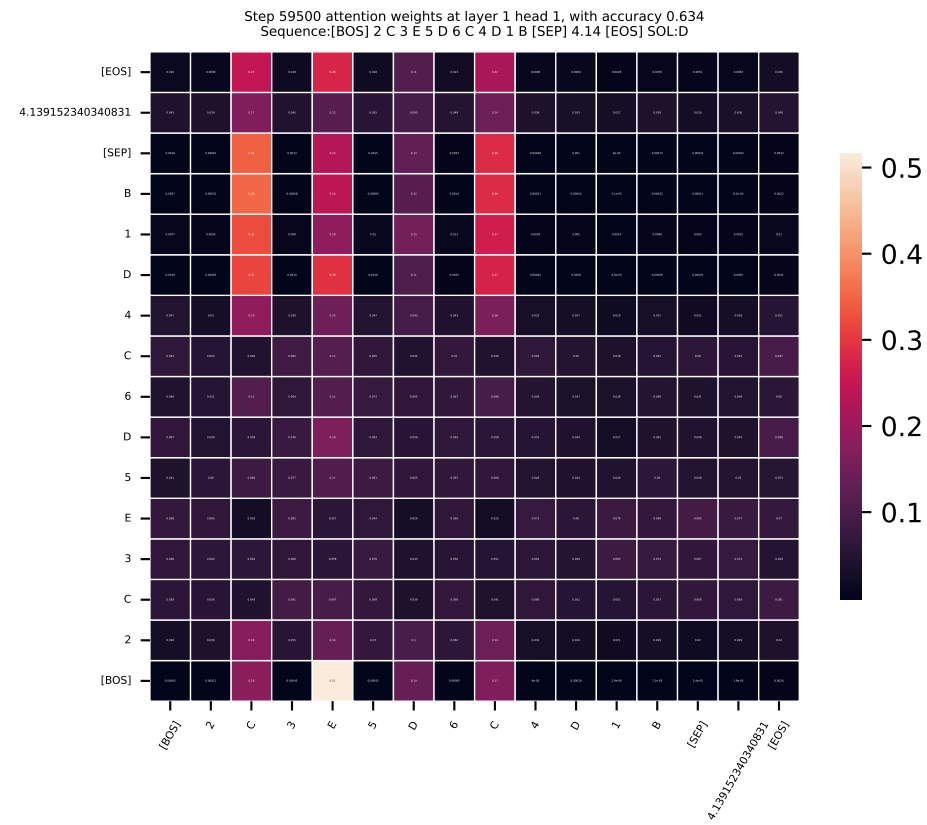
0.1


Step 59500 attention weights at layer 1 head 1, with accuracy 0.634
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
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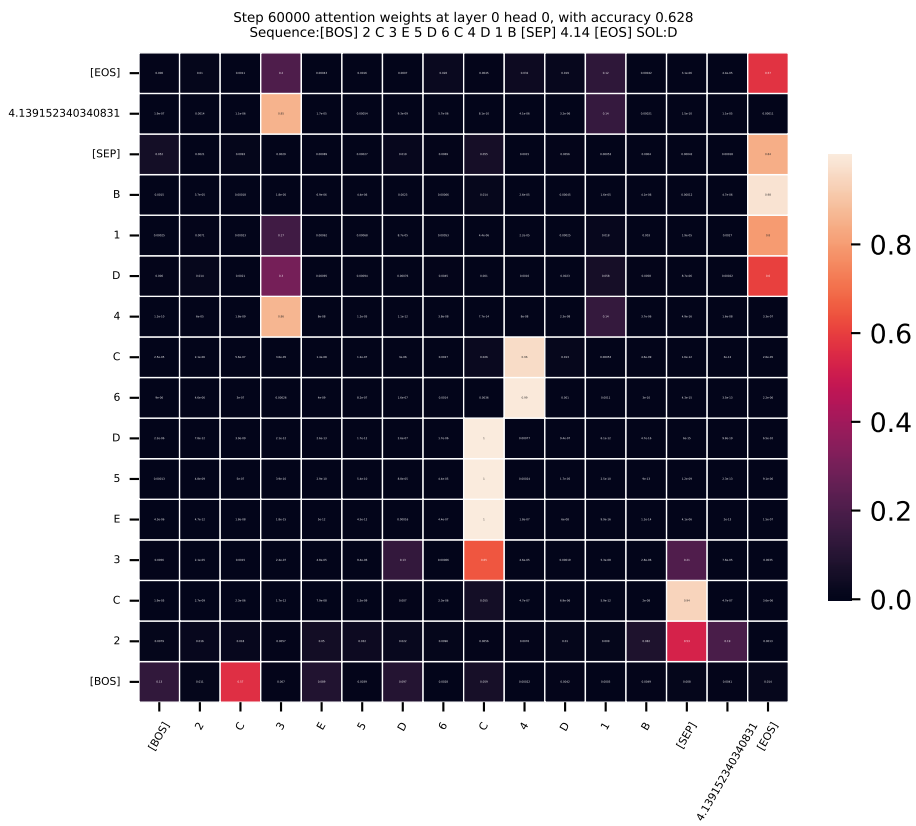
0.1


Step 60000 attention weights at layer 0 head 0, with accuracy 0.628
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[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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C
3
E
5
D
6
C
4
D
1
B
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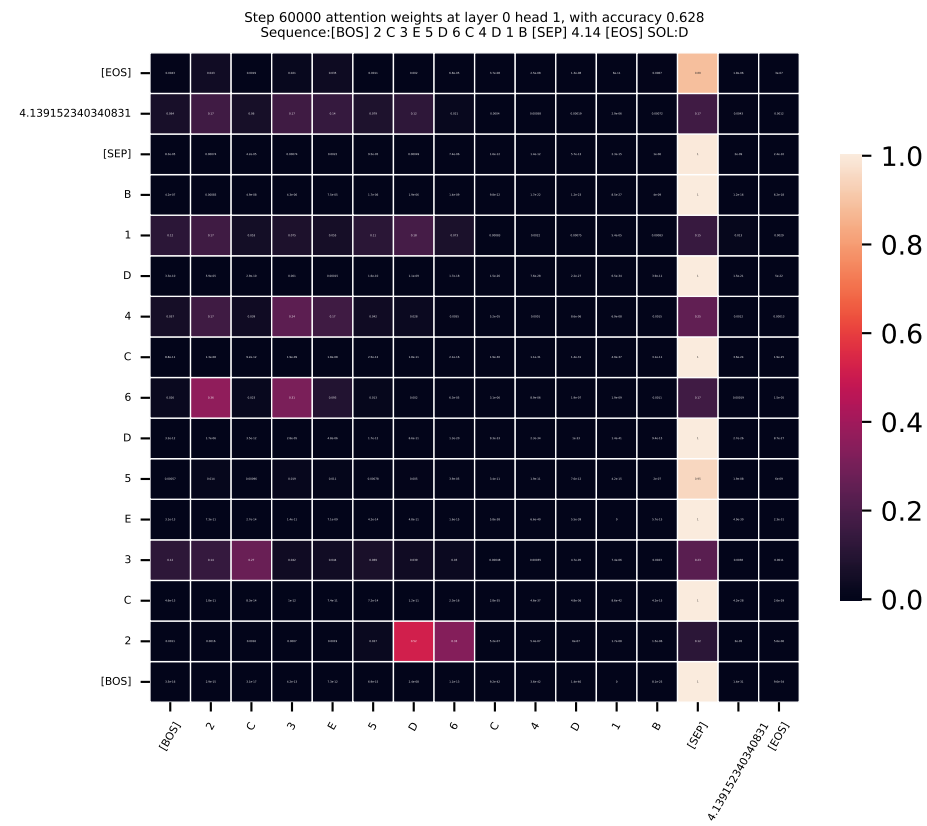
Step 60000 attention weights at layer 0 head 1, with accuracy 0.628
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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C
3
E
5
D
6
C
4
D
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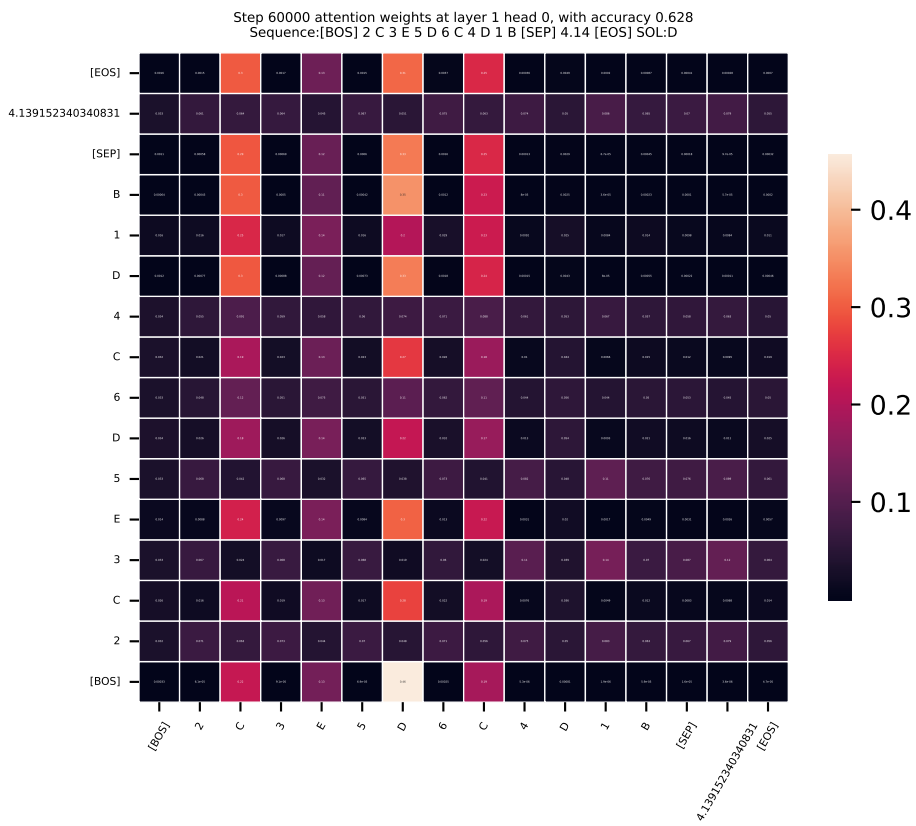
Step 60000 attention weights at layer 1 head 0, with accuracy 0.628
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
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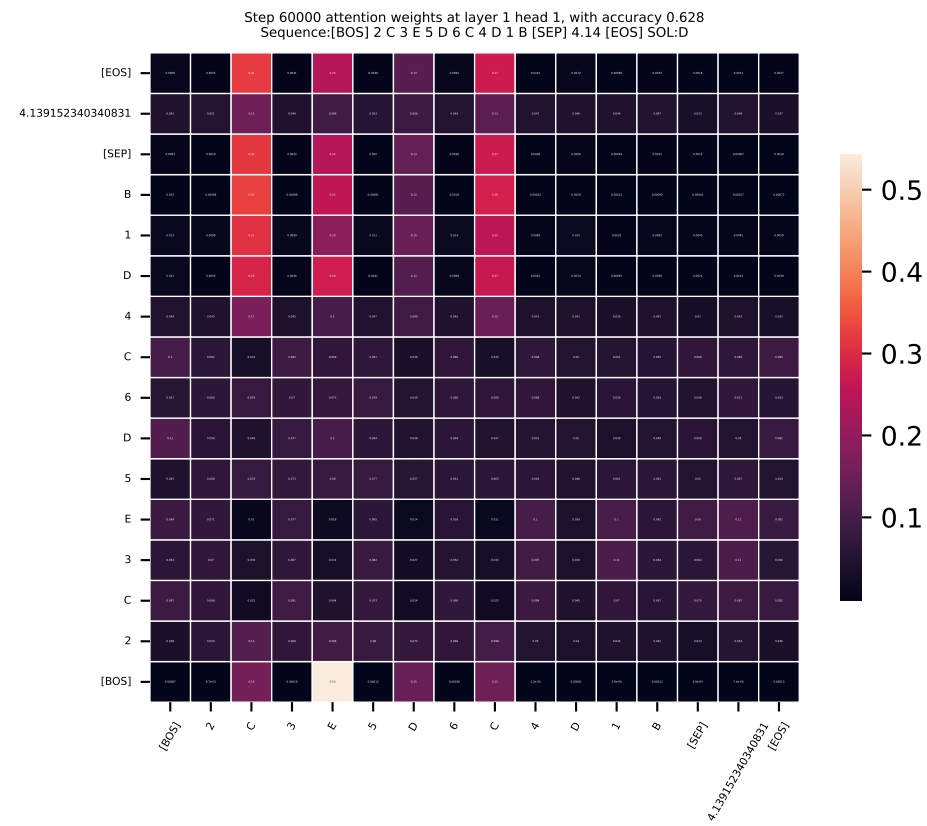
Step 60000 attention weights at layer 1 head 1, with accuracy 0.628
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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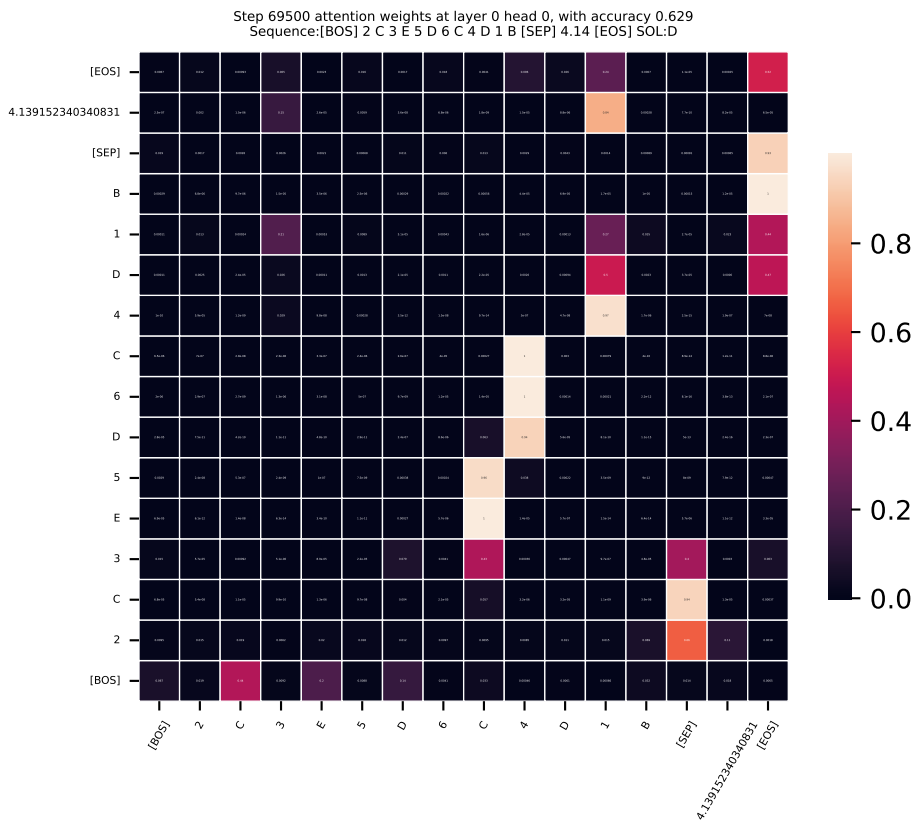
0.3
0.2
0.1


Step 69500 attention weights at layer 0 head 0, with accuracy 0.629
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
6
C
4
D
1
B
[SEP]
4.139152340340831
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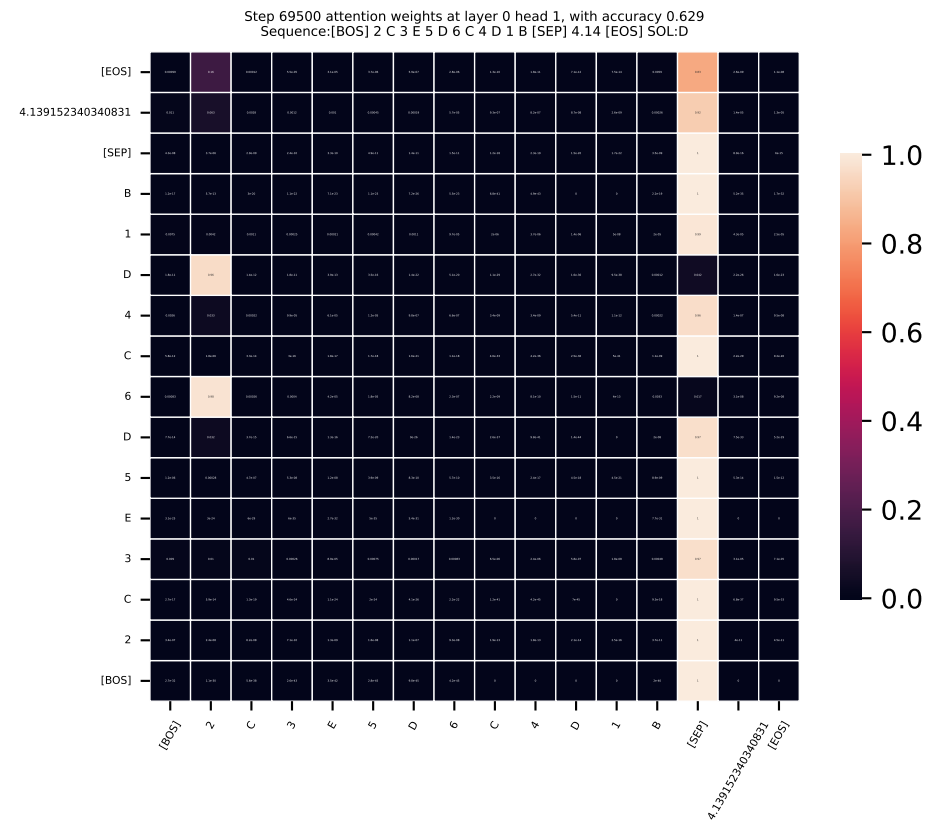
Step 69500 attention weights at layer 0 head 1, with accuracy 0.629
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[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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3
E
5
D
6
C
4
D
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[SEP]
4.139152340340831
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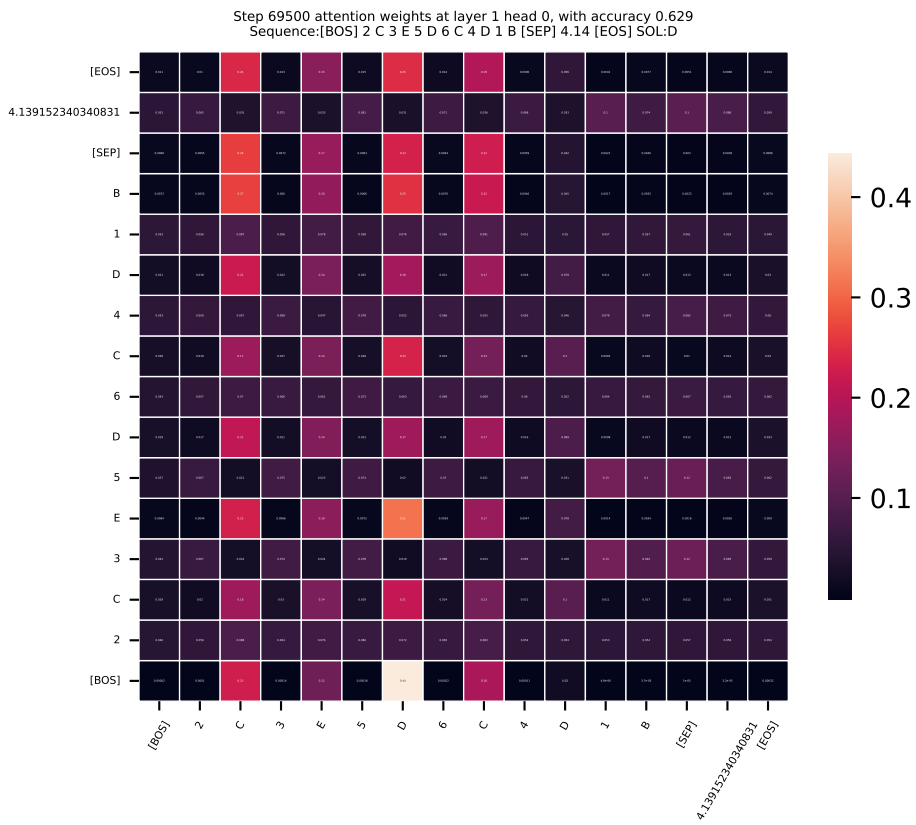
Step 69500 attention weights at layer 1 head 0, with accuracy 0.629
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
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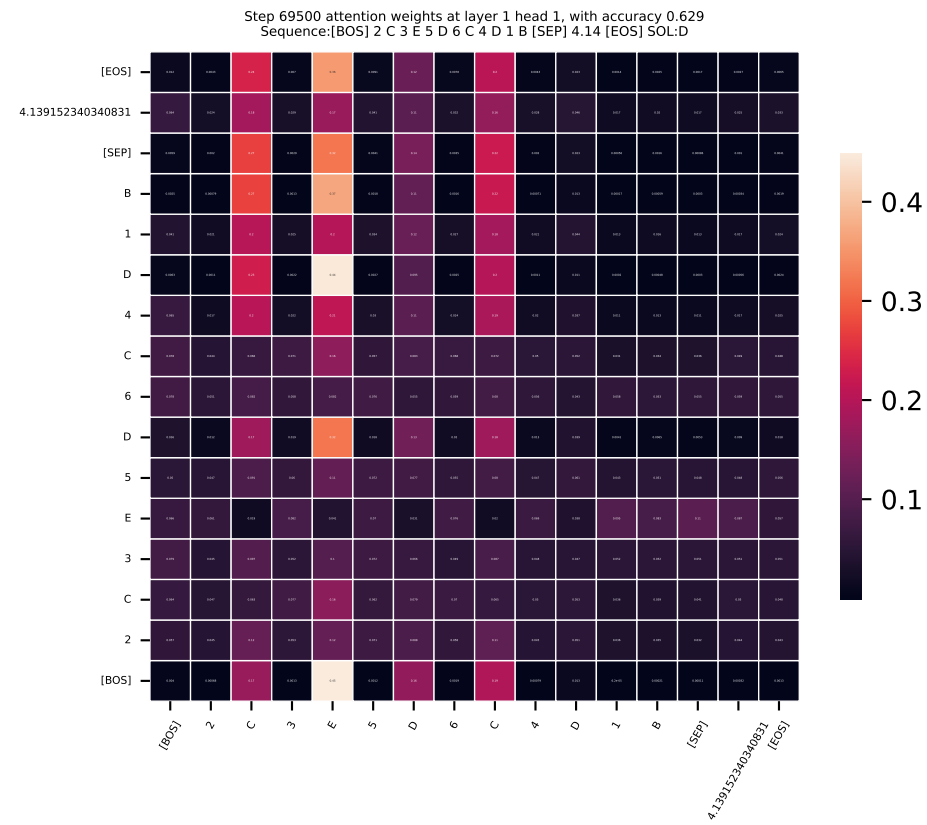
0.1


Step 69500 attention weights at layer 1 head 1, with accuracy 0.629
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
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D
4
C
6
D
5
E
3
C
2
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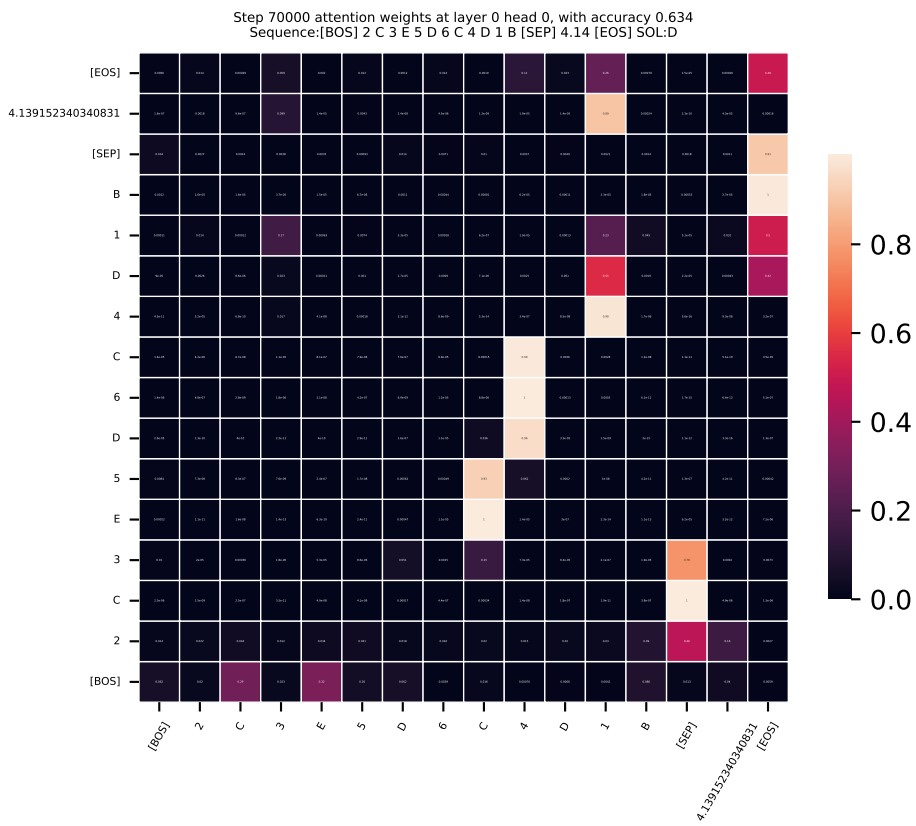
Step 70000 attention weights at layer 0 head 0, with accuracy 0.634
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
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0.6
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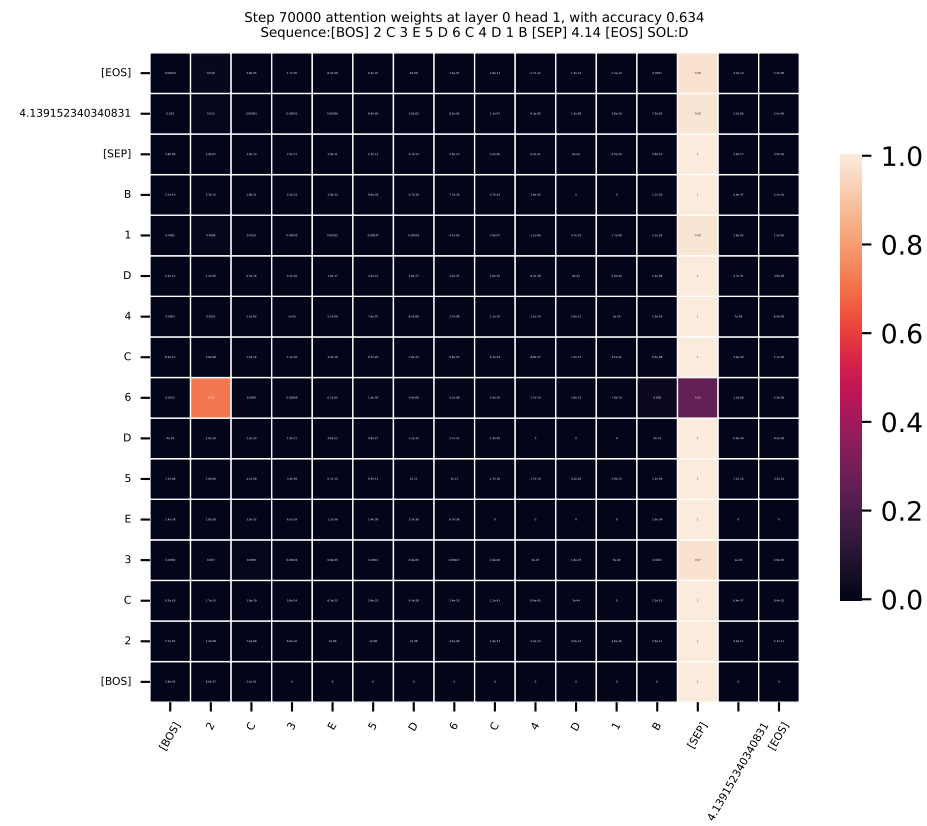
Step 70000 attention weights at layer 0 head 1, with accuracy 0.634
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
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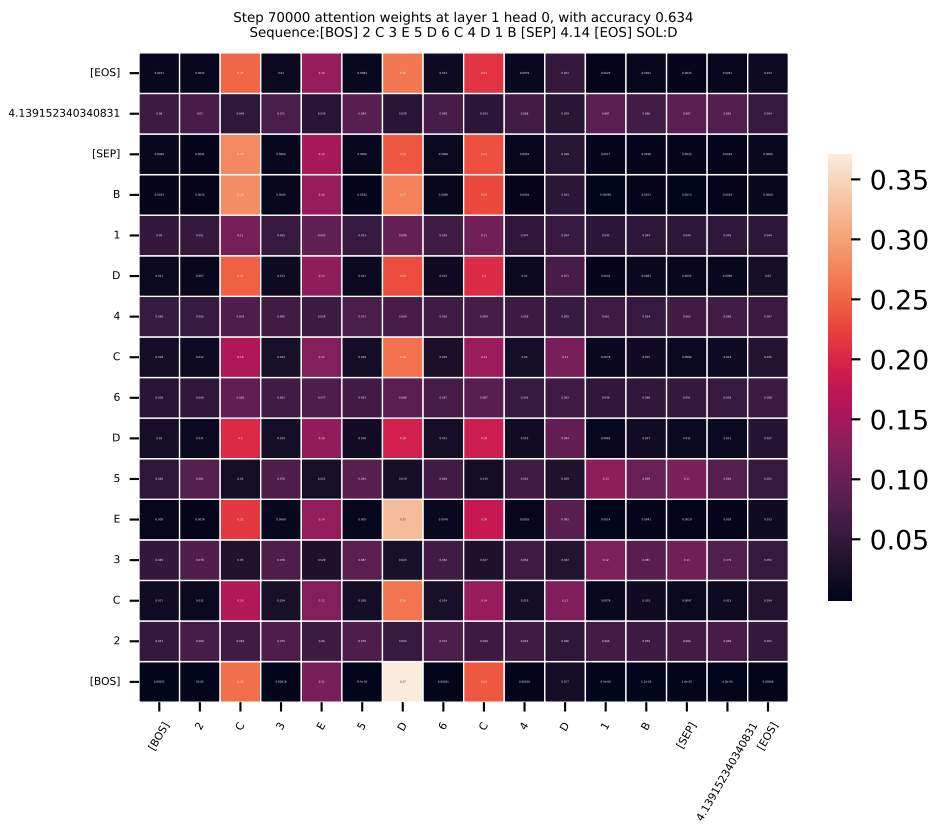
Step 70000 attention weights at layer 1 head 0, with accuracy 0.634
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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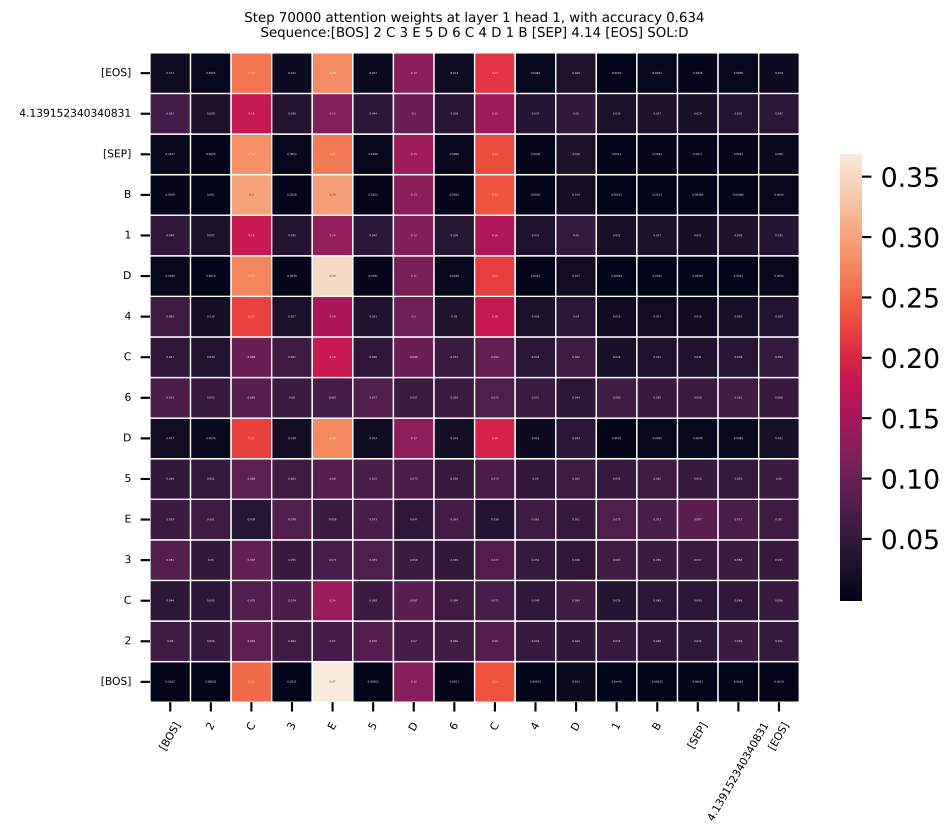
0.10
0.05


Step 70000 attention weights at layer 1 head 1, with accuracy 0.634
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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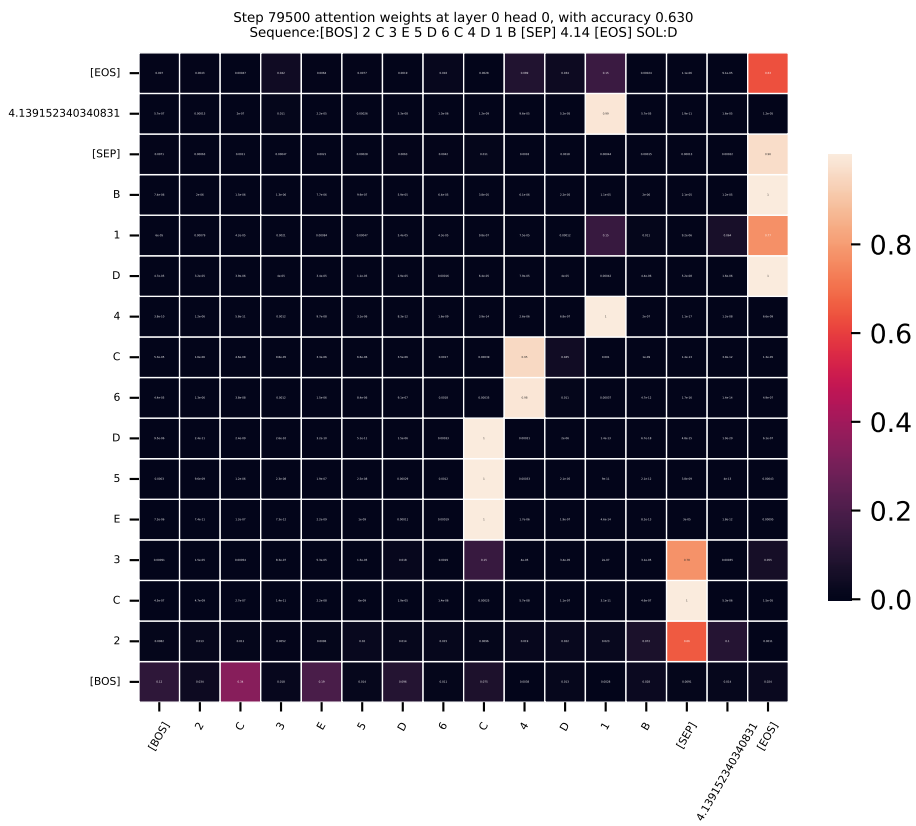
0.30
0.25
0.20
0.15
0.10
0.05


Step 79500 attention weights at layer 0 head 0, with accuracy 0.630
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
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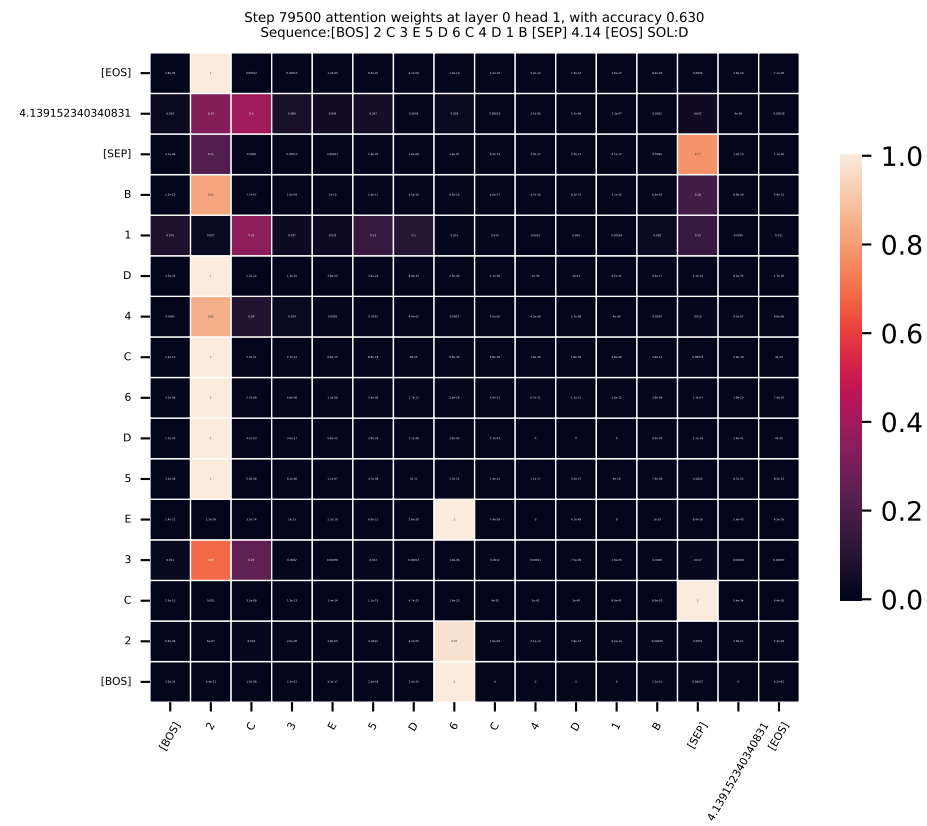
Step 79500 attention weights at layer 0 head 1, with accuracy 0.630
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
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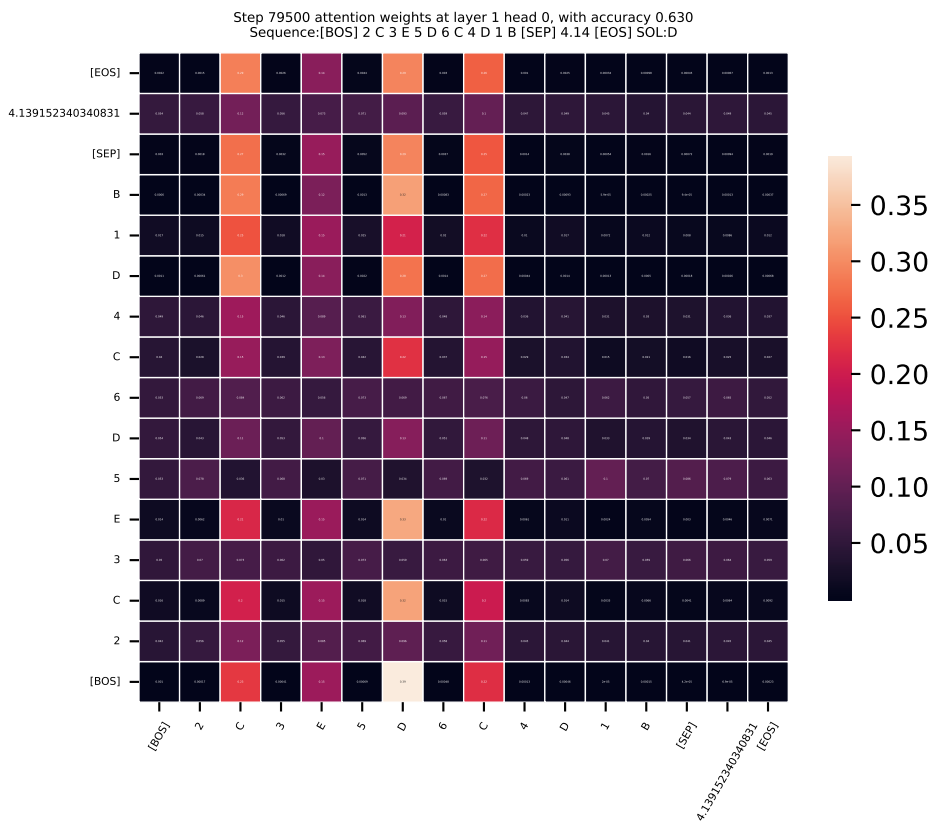
Step 79500 attention weights at layer 1 head 0, with accuracy 0.630
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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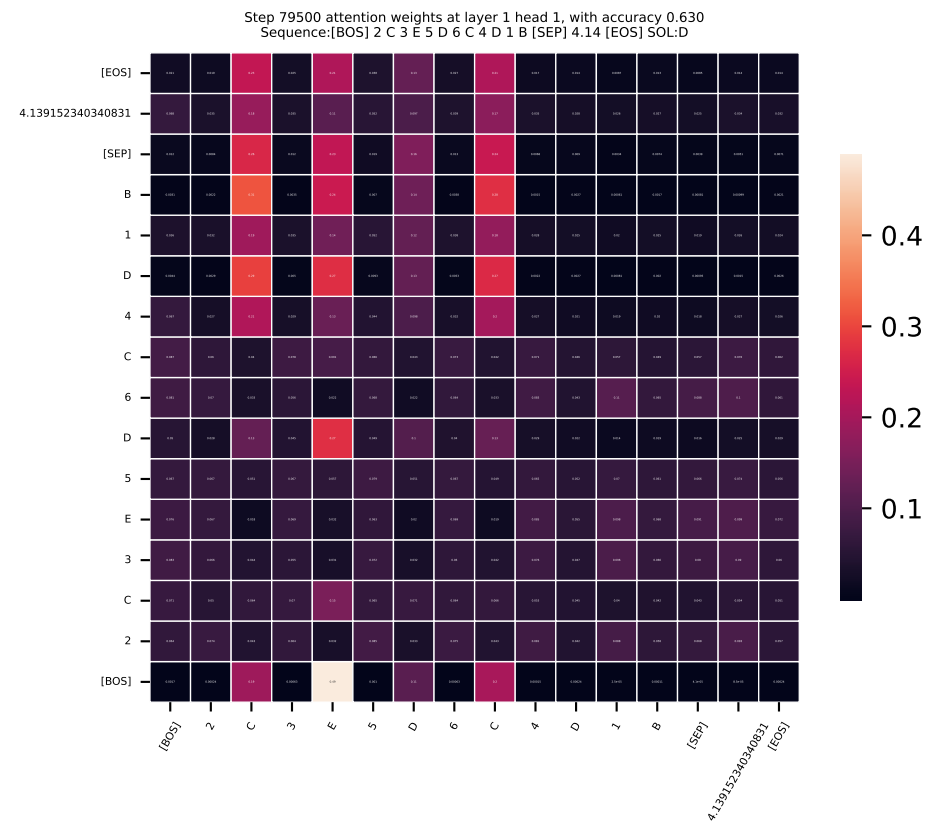
0.30
0.25
0.20
0.15
0.10
0.05


Step 79500 attention weights at layer 1 head 1, with accuracy 0.630
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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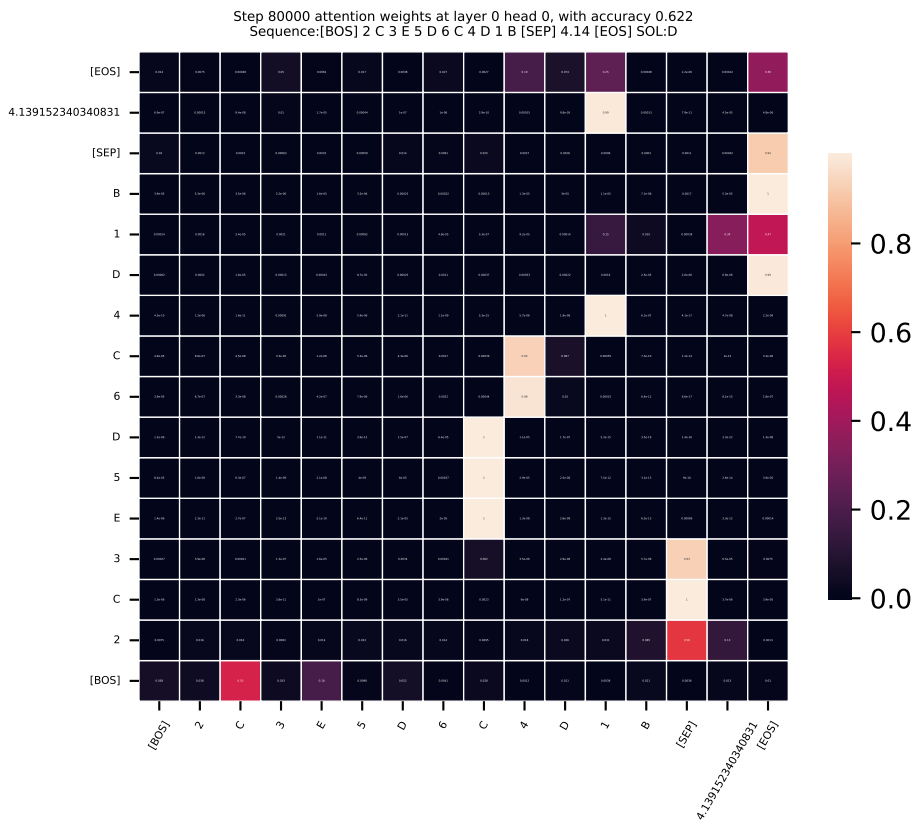
0.2
0.1


Step 80000 attention weights at layer 0 head 0, with accuracy 0.622
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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C
3
E
5
D
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C
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D
1
B
[SEP]
4.139152340340831
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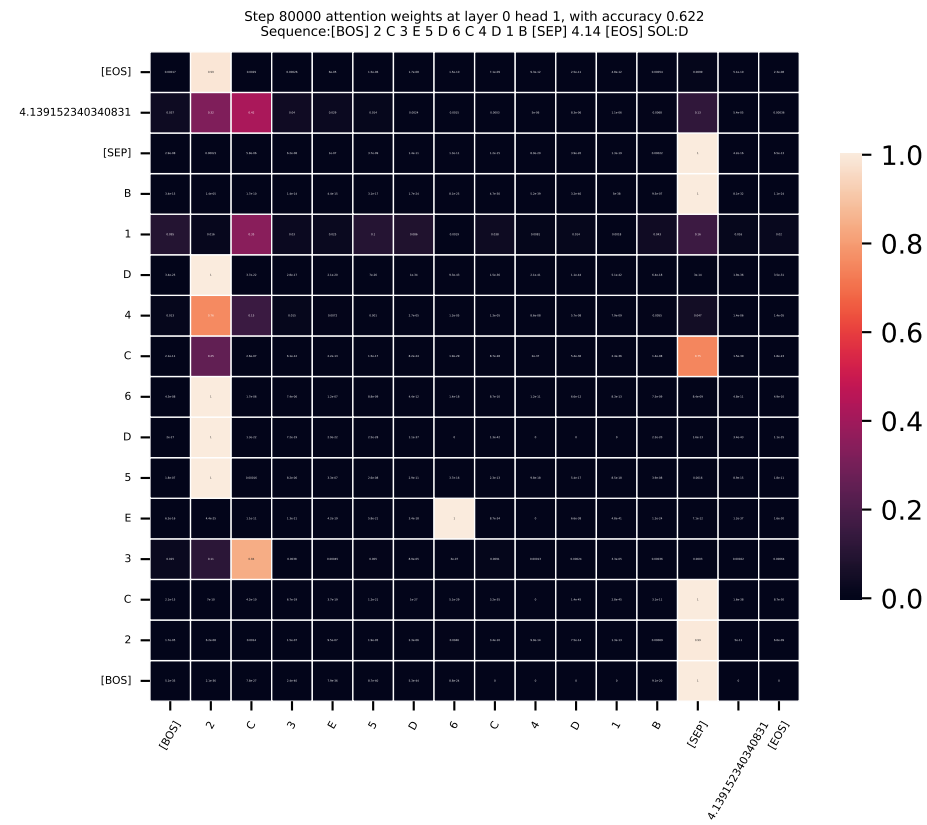
Step 80000 attention weights at layer 0 head 1, with accuracy 0.622
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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C
3
E
5
D
6
C
4
D
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B
[SEP]
4.139152340340831
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0.6
0.4
0.2
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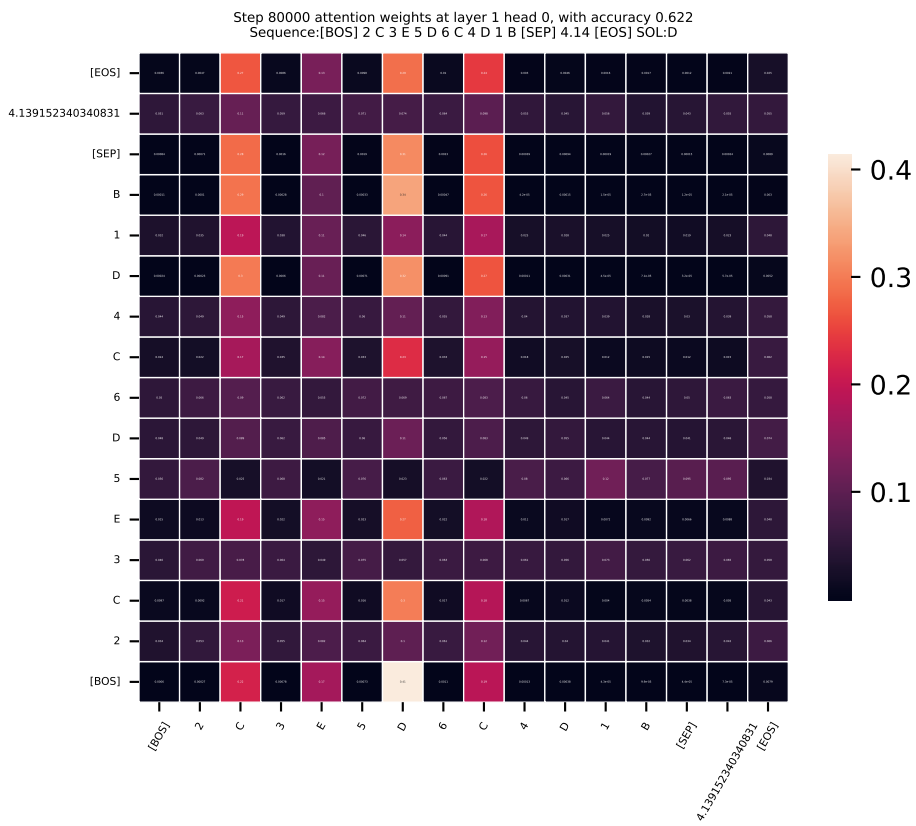
Step 80000 attention weights at layer 1 head 0, with accuracy 0.622
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[EOS]
4.139152340340831
[SEP]
B
1
D
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C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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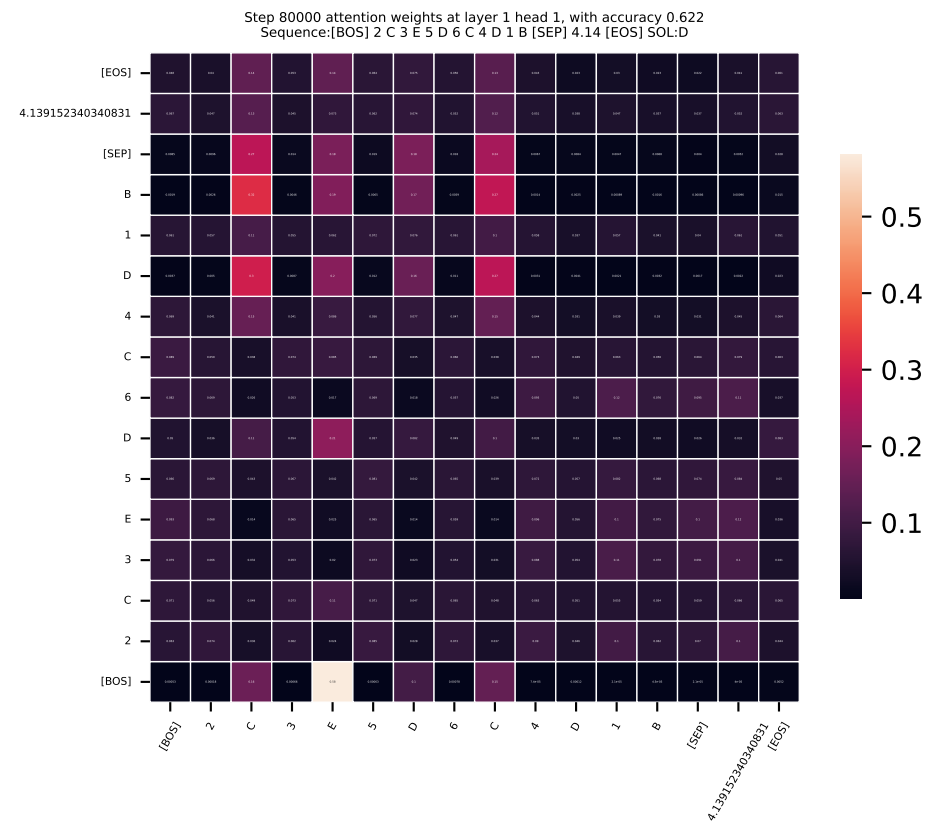
0.2
0.1


Step 80000 attention weights at layer 1 head 1, with accuracy 0.622
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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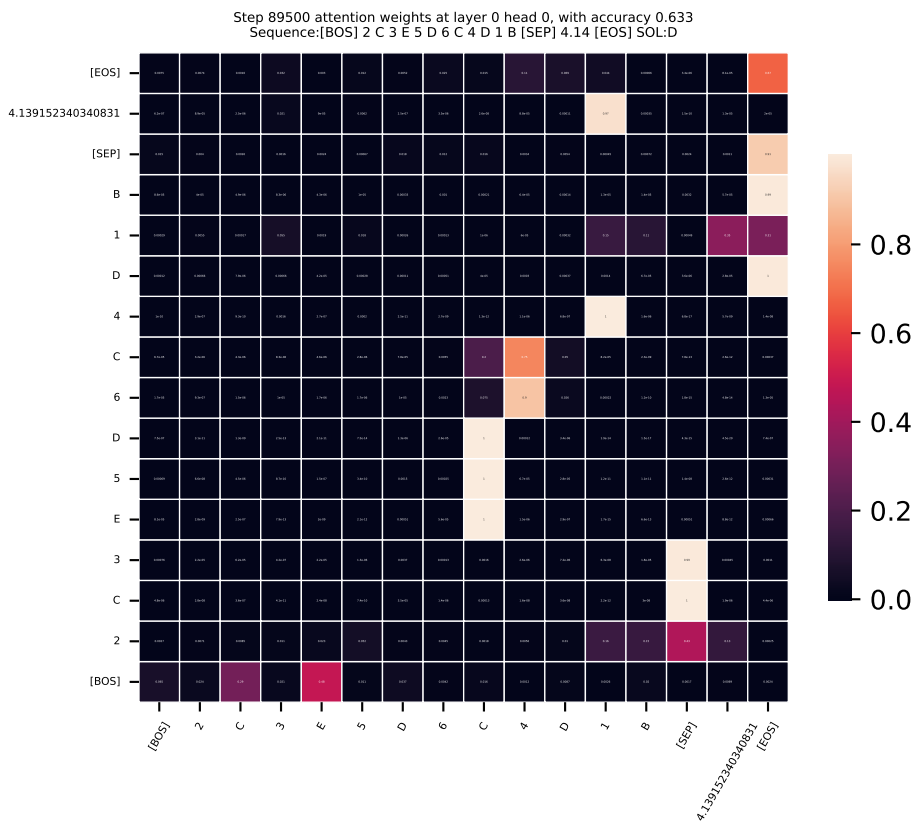
0.4
0.3
0.2
0.1


Step 89500 attention weights at layer 0 head 0, with accuracy 0.633
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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C
3
E
5
D
6
C
4
D
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B
[SEP]
4.139152340340831
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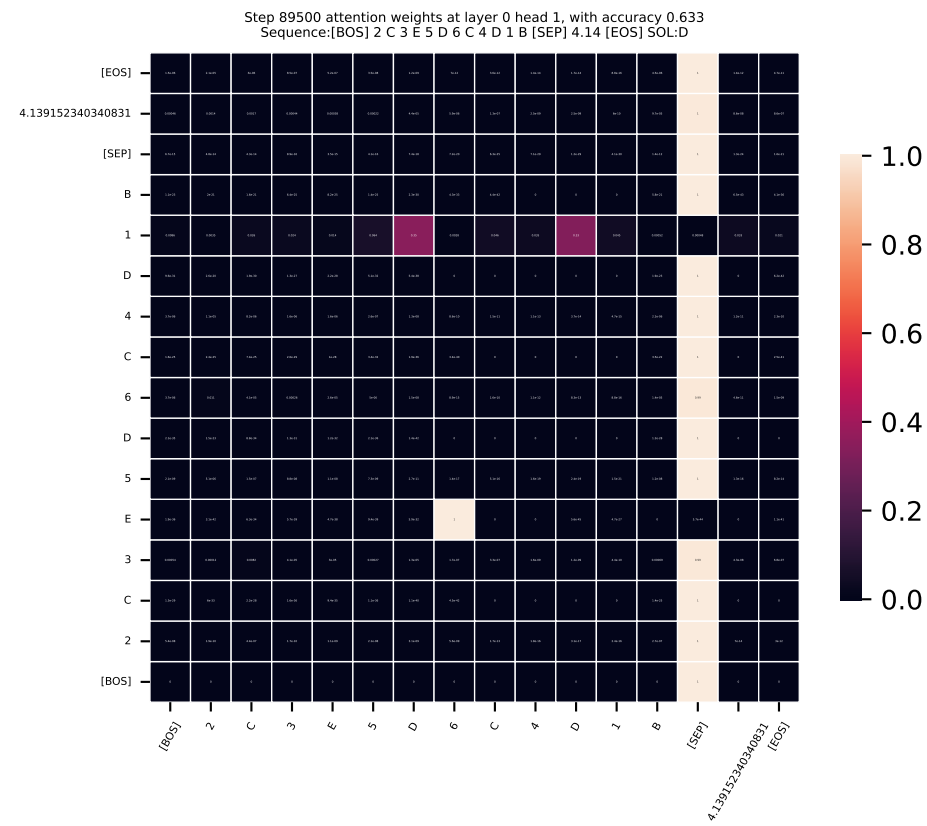
Step 89500 attention weights at layer 0 head 1, with accuracy 0.633
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
6
C
4
D
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B
[SEP]
4.139152340340831
[EOS]
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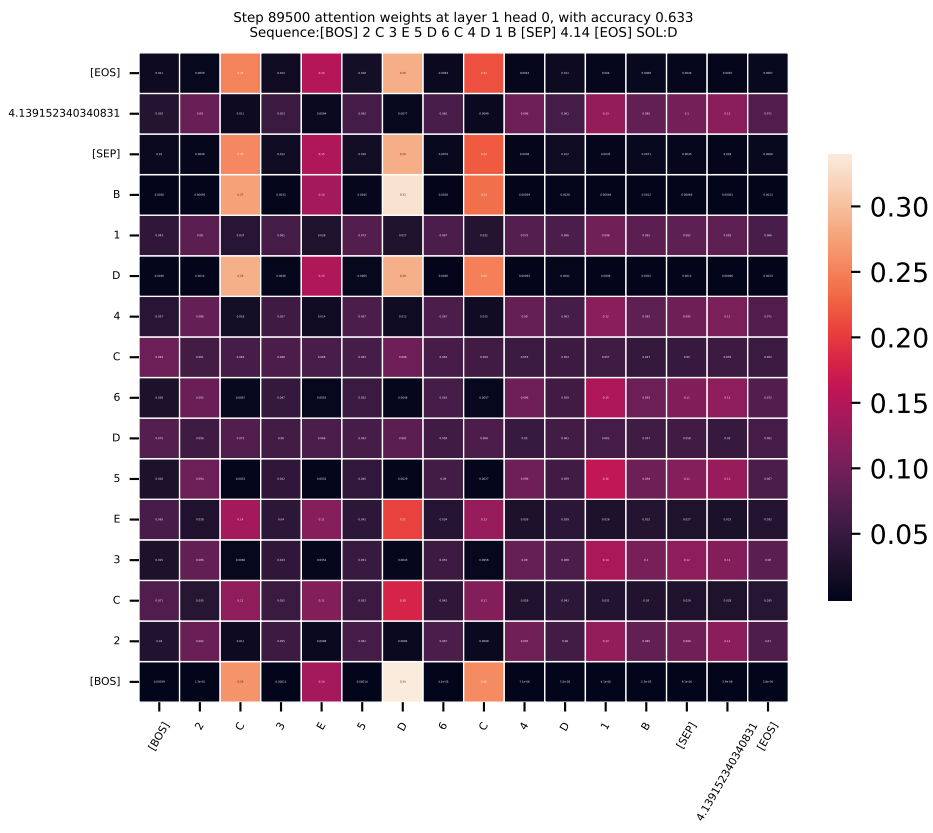
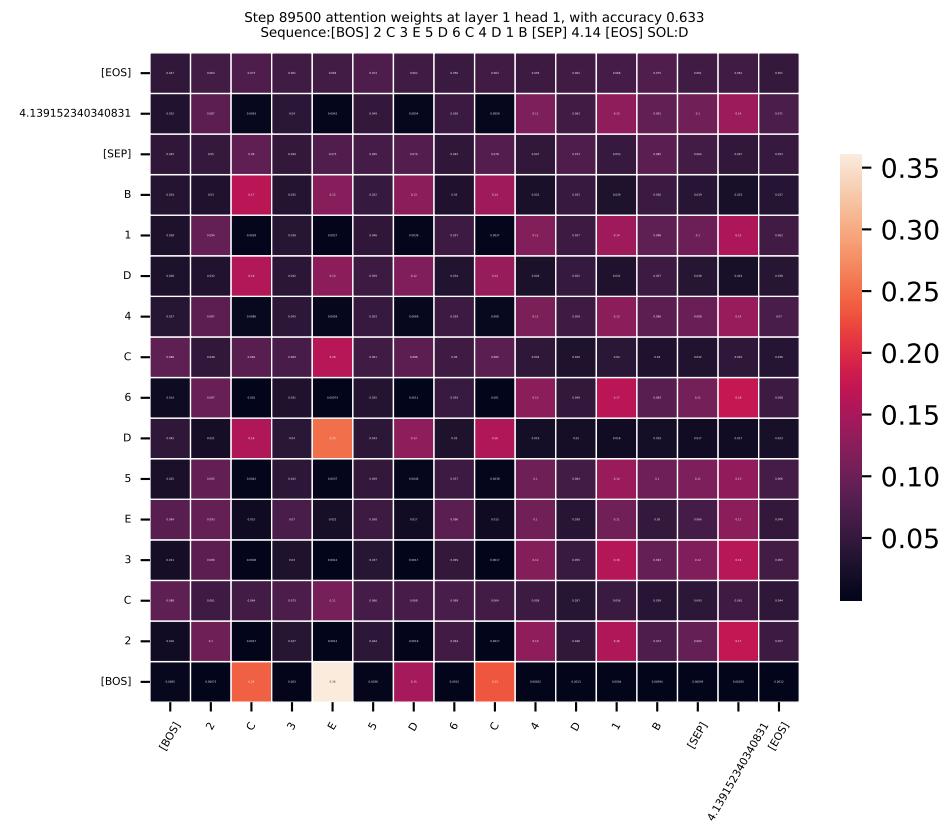
0.8
0.6
0.4
0.2
0.0


Step 89500 attention weights at layer 1 head 0, with accuracy 0.633
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
0.30
0.25
0.20
0.15
0.10
0.05


Step 89500 attention weights at layer 1 head 1, with accuracy 0.633
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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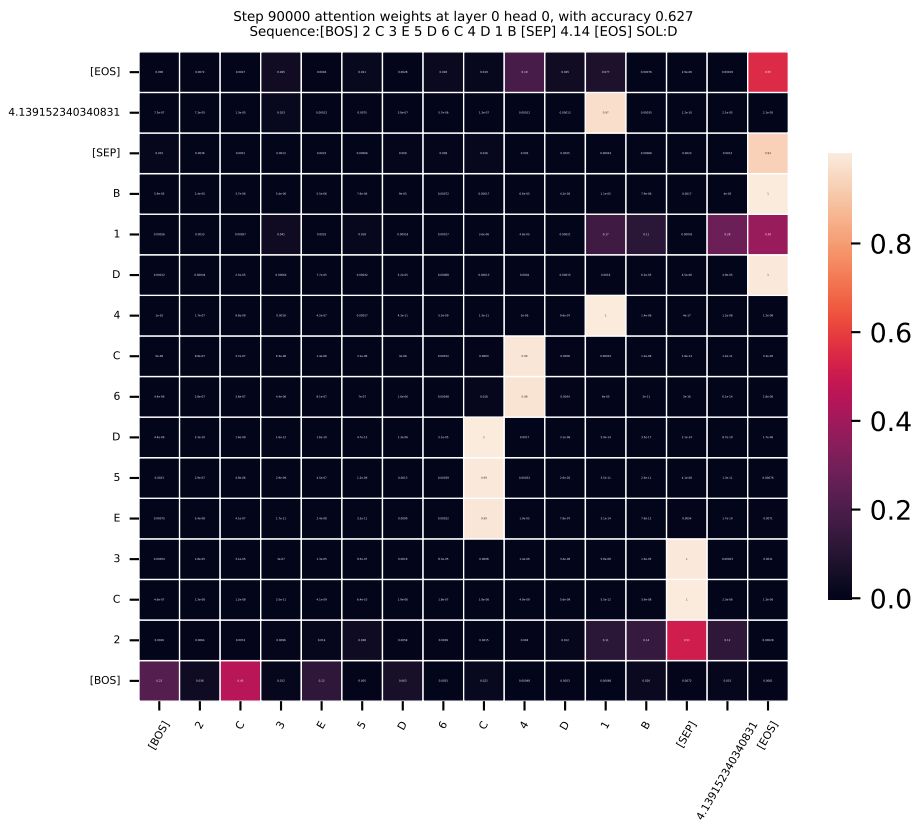
0.10
0.05


Step 90000 attention weights at layer 0 head 0, with accuracy 0.627
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
6
C
4
D
1
B
[SEP]
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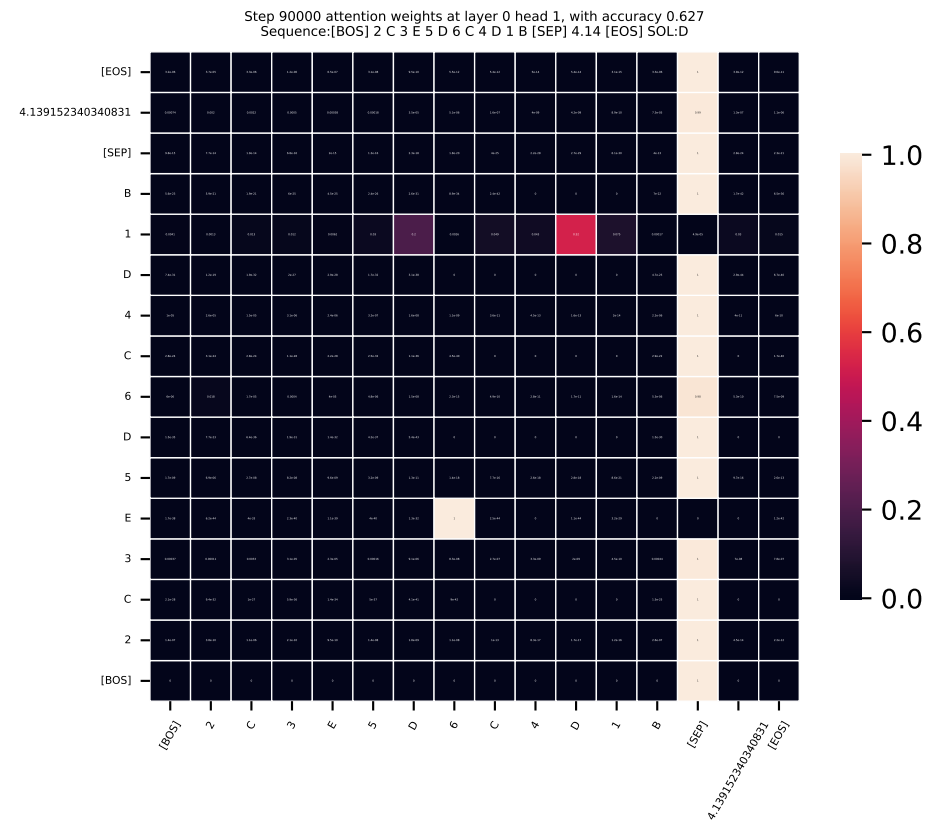
Step 90000 attention weights at layer 0 head 1, with accuracy 0.627
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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C
3
E
5
D
6
C
4
D
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B
[SEP]
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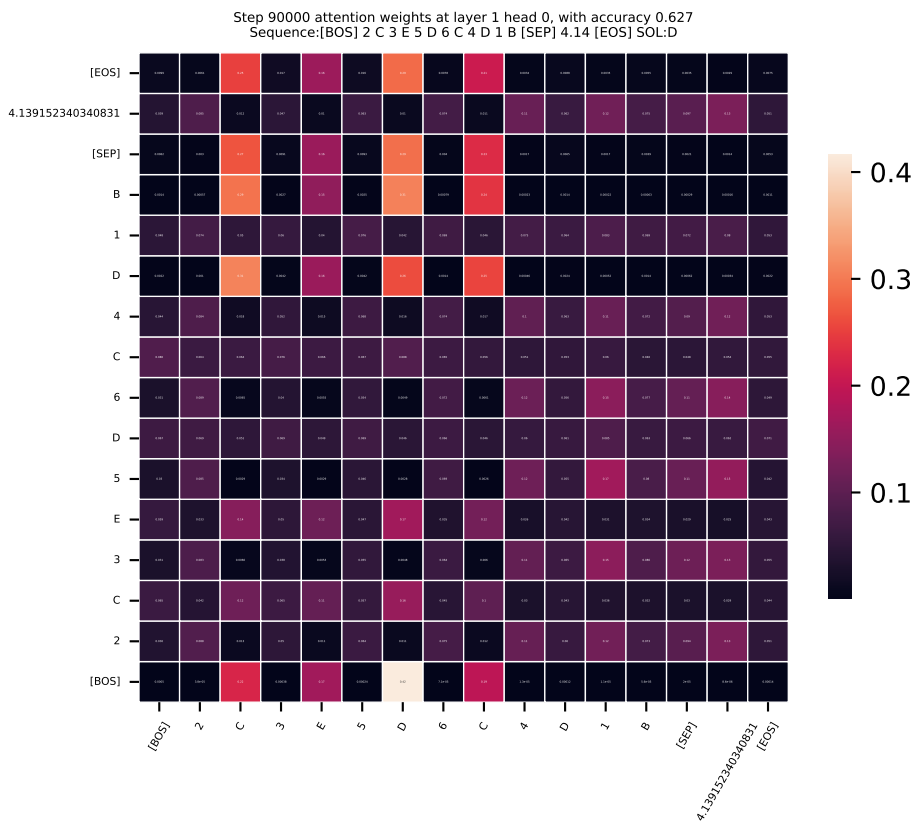
Step 90000 attention weights at layer 1 head 0, with accuracy 0.627
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
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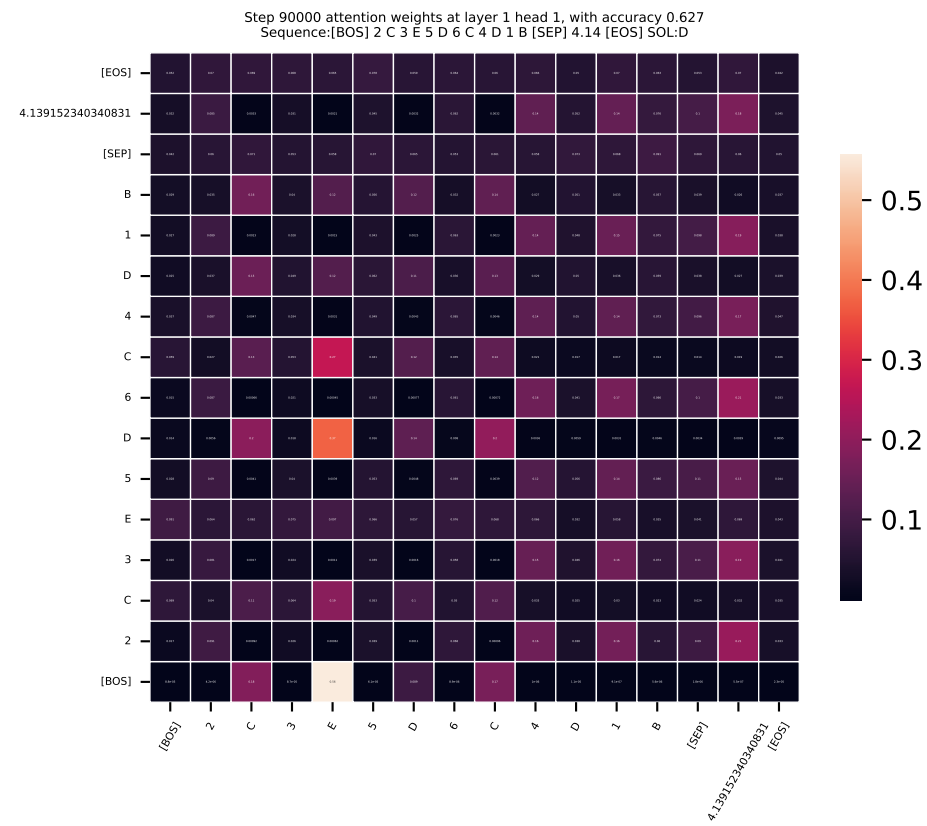
Step 90000 attention weights at layer 1 head 1, with accuracy 0.627
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D
4
C
6
D
5
E
3
C
2
[BOS]
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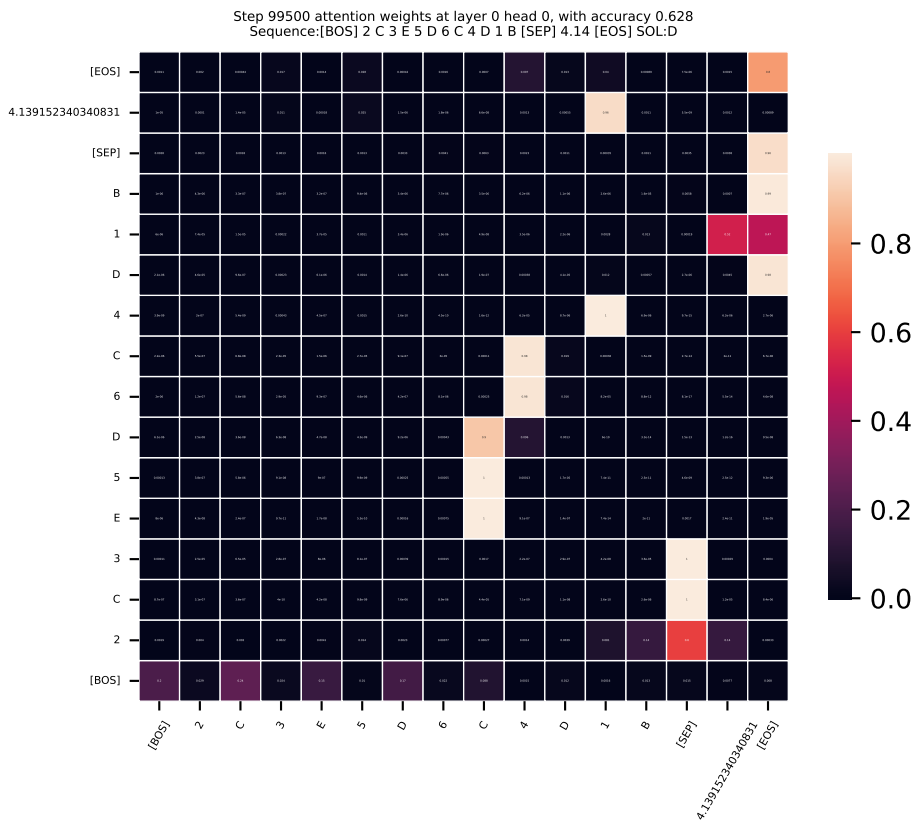
0.2
0.1


Step 99500 attention weights at layer 0 head 0, with accuracy 0.628
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[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
6
C
4
D
1
B
[SEP]
4.139152340340831
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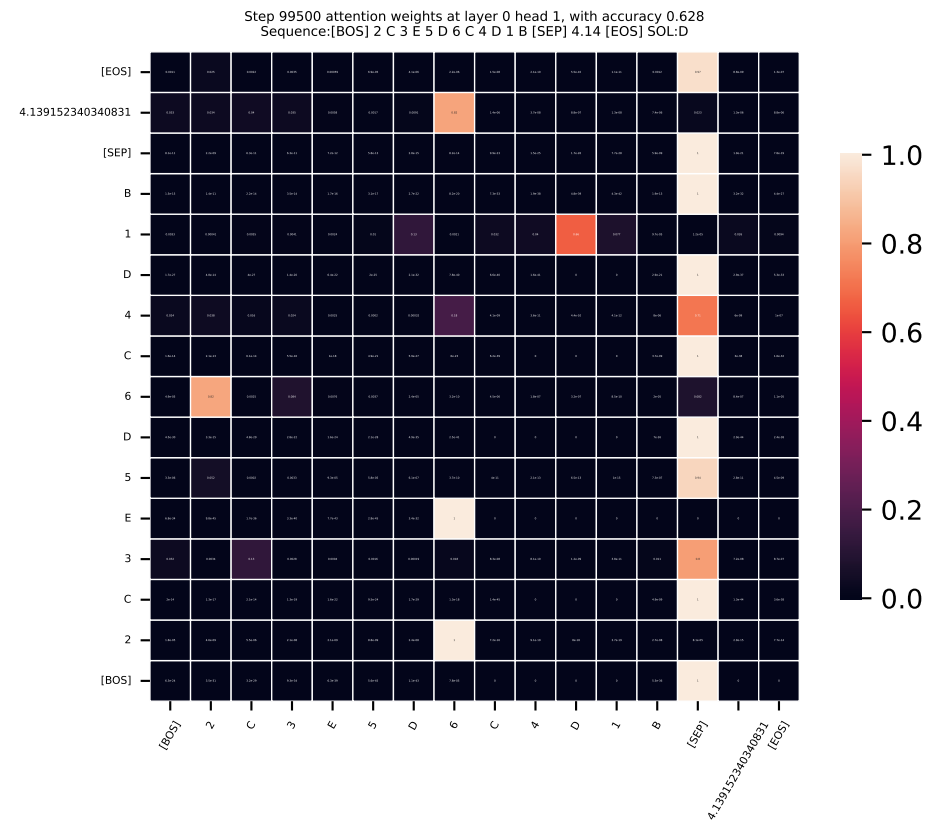
Step 99500 attention weights at layer 0 head 1, with accuracy 0.628
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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3
E
5
D
6
C
4
D
1
B
[SEP]
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0.4
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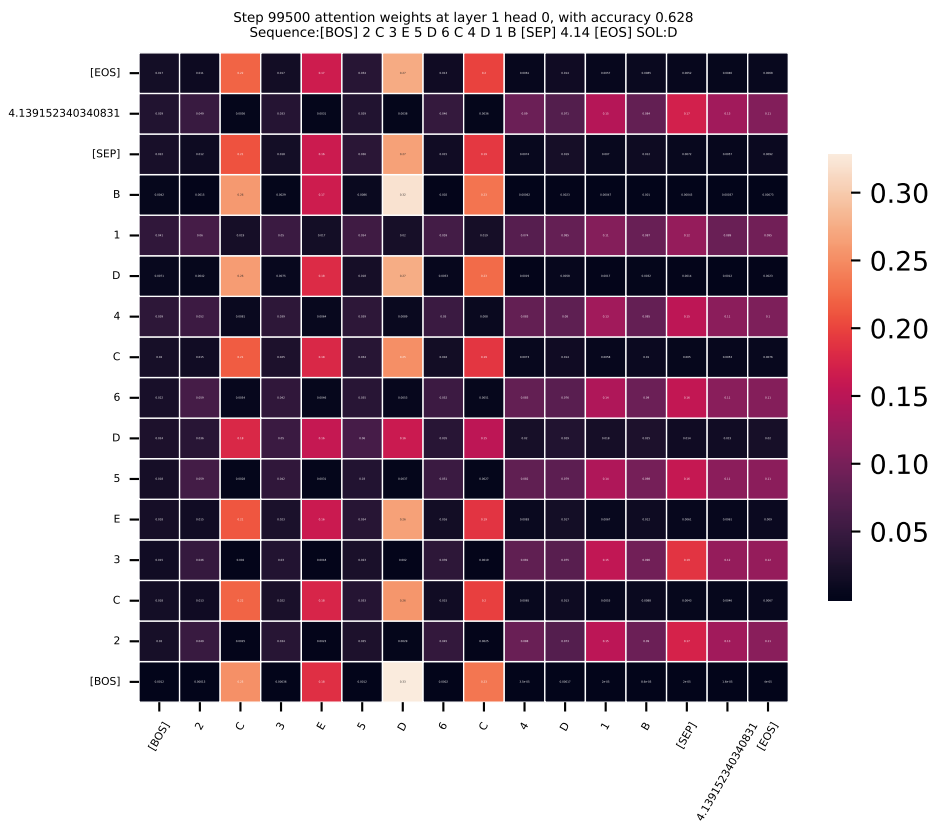
Step 99500 attention weights at layer 1 head 0, with accuracy 0.628
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[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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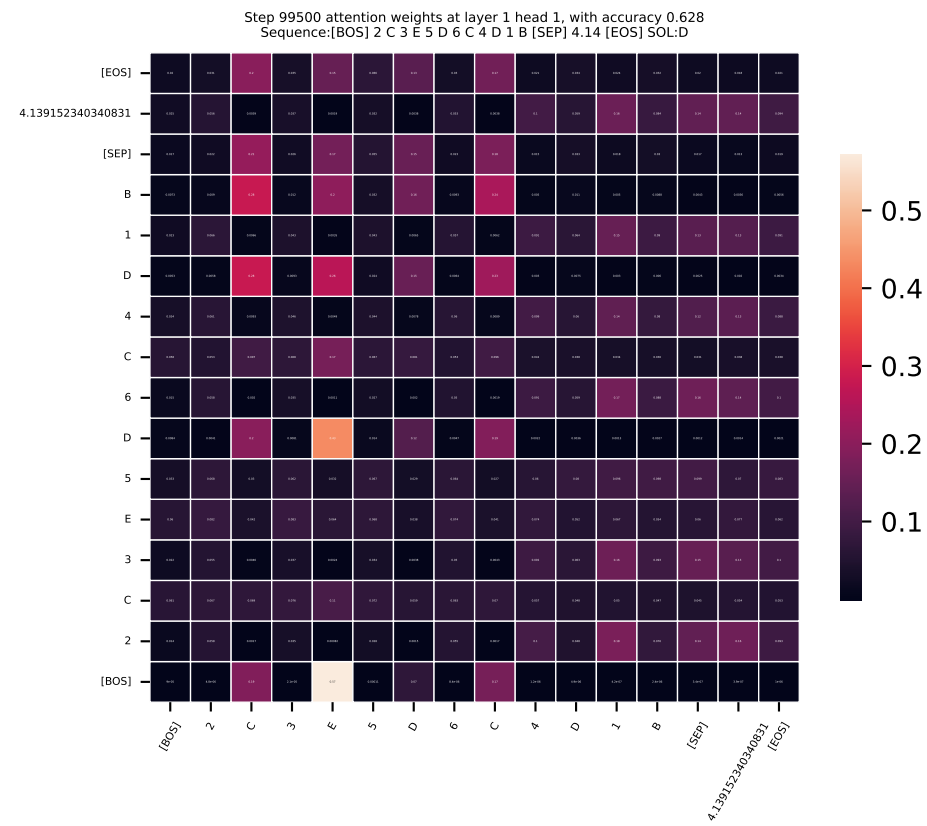
0.15
0.10
0.05


Step 99500 attention weights at layer 1 head 1, with accuracy 0.628
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
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D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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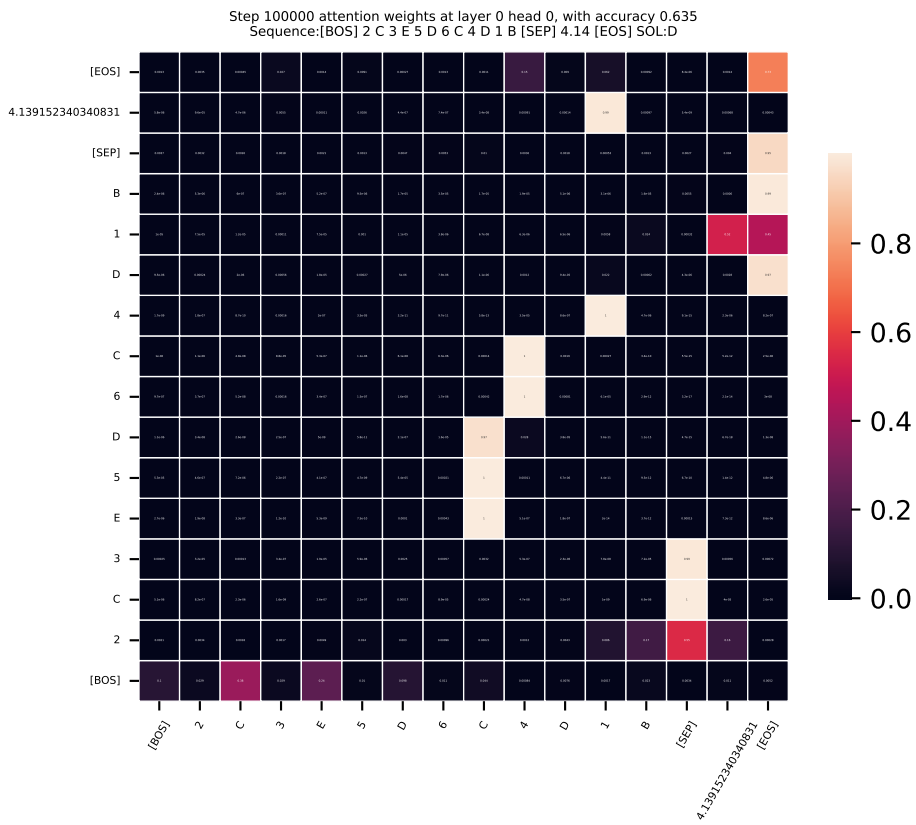
0.3
0.2
0.1


Step 100000 attention weights at layer 0 head 0, with accuracy 0.635
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
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4
C
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D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
6
C
4
D
1
B
[SEP]
4.139152340340831
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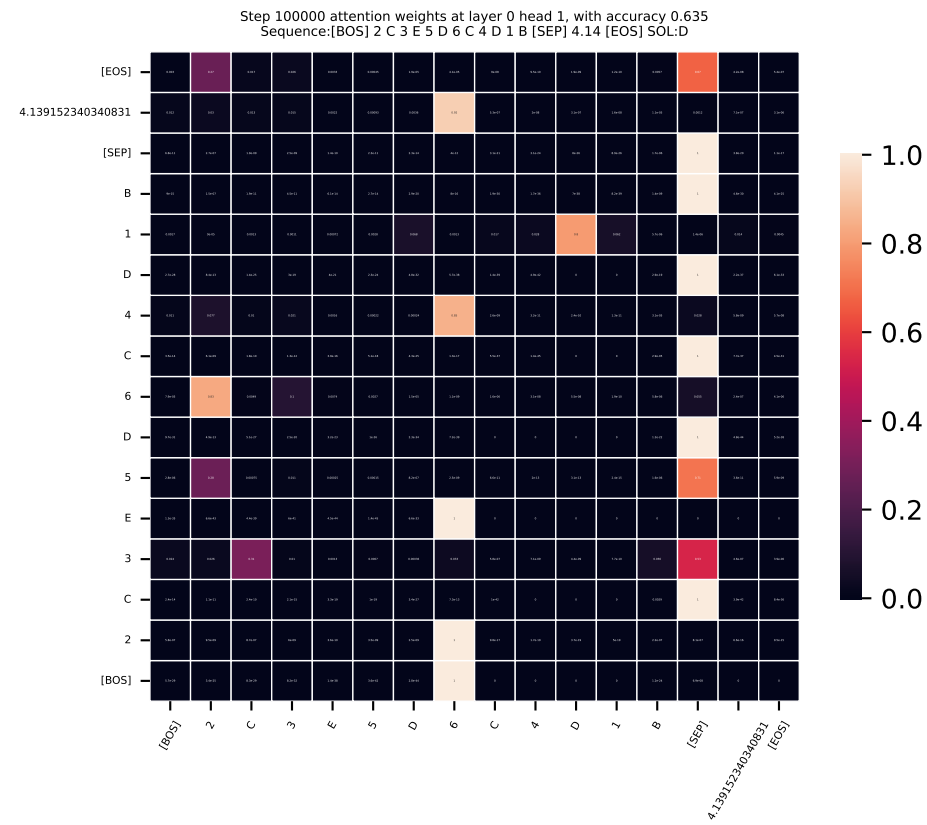
Step 100000 attention weights at layer 0 head 1, with accuracy 0.635
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
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C
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D
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E
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C
2
[BOS]
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E
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C
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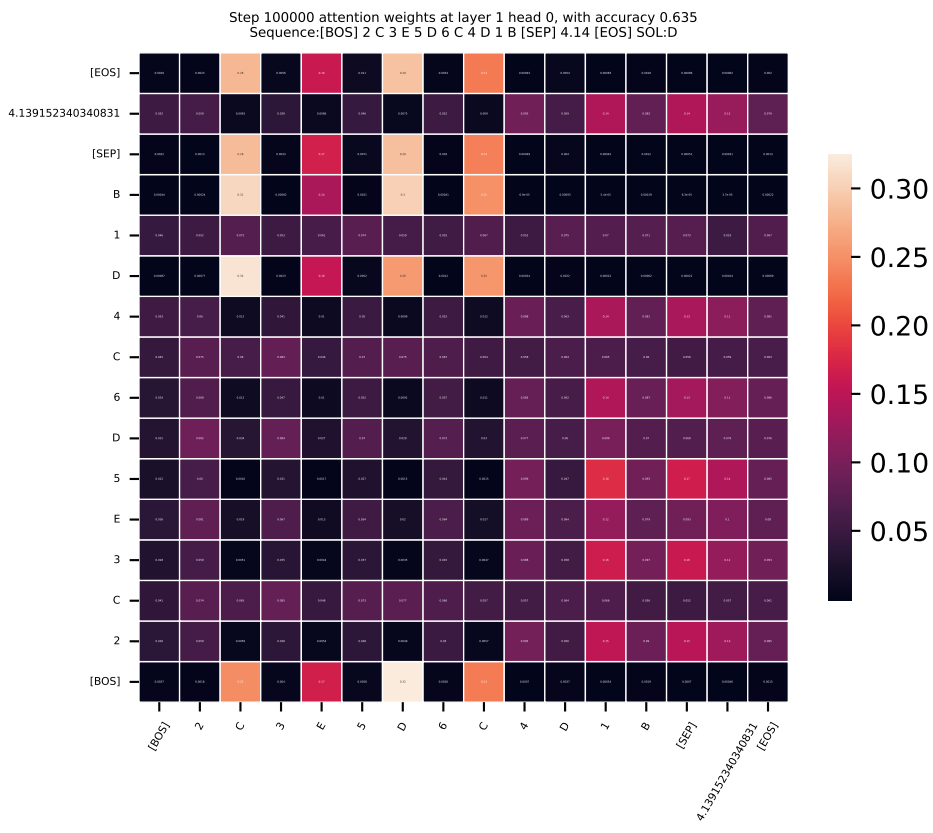
Step 100000 attention weights at layer 1 head 0, with accuracy 0.635
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
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D
4
C
6
D
5
E
3
C
2
[BOS]
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0.20
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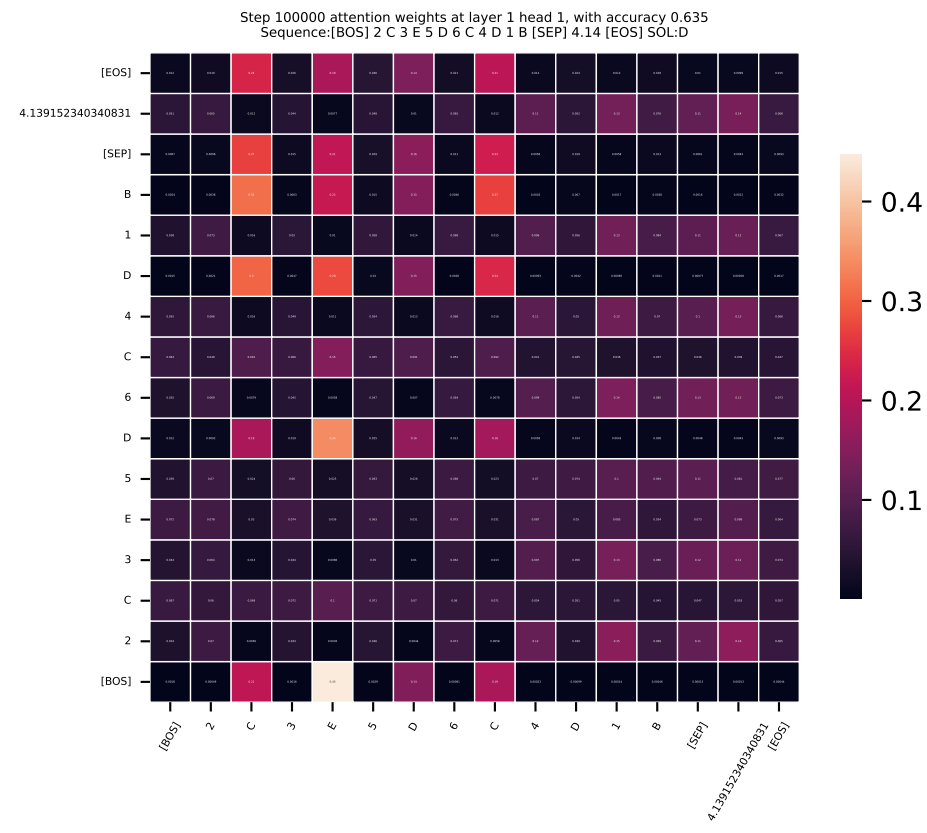
Step 100000 attention weights at layer 1 head 1, with accuracy 0.635
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
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D
4
C
6
D
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E
3
C
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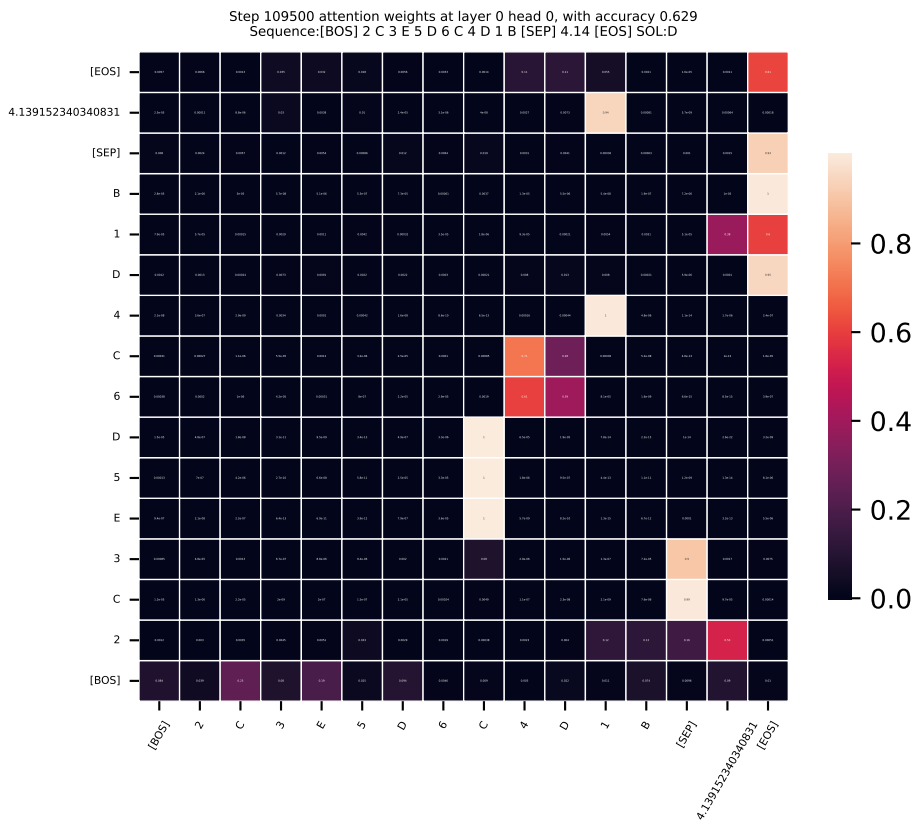
Step 109500 attention weights at layer 0 head 0, with accuracy 0.629
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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C
3
E
5
D
6
C
4
D
1
B
[SEP]
4.139152340340831
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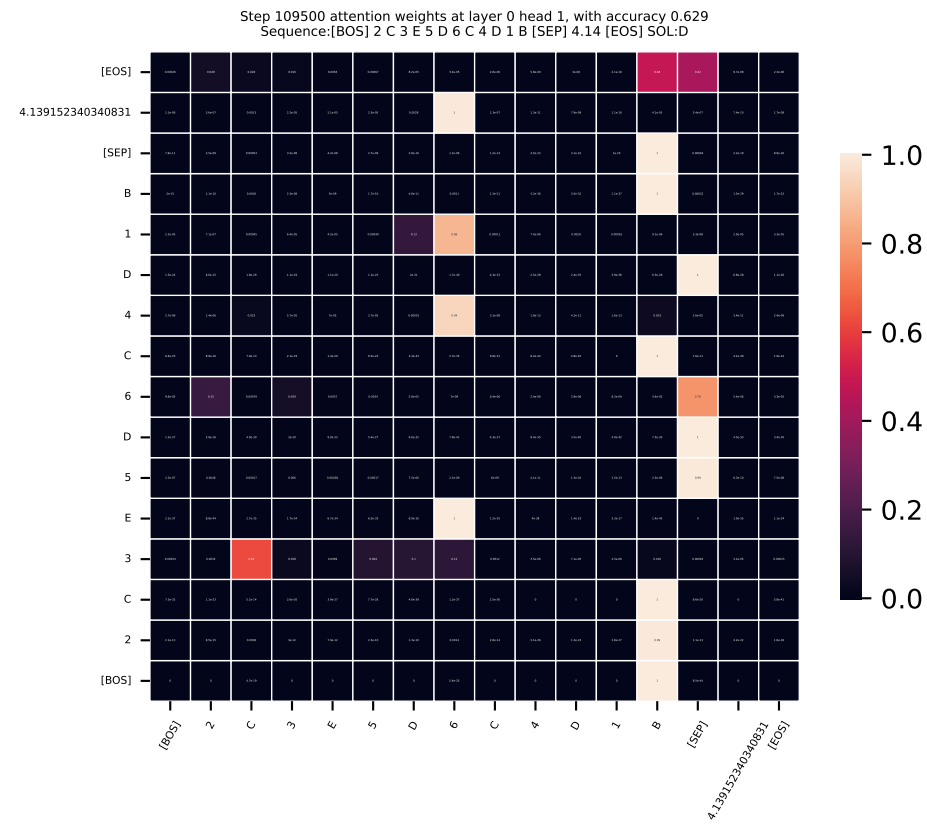
Step 109500 attention weights at layer 0 head 1, with accuracy 0.629
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
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D
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C
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4.139152340340831
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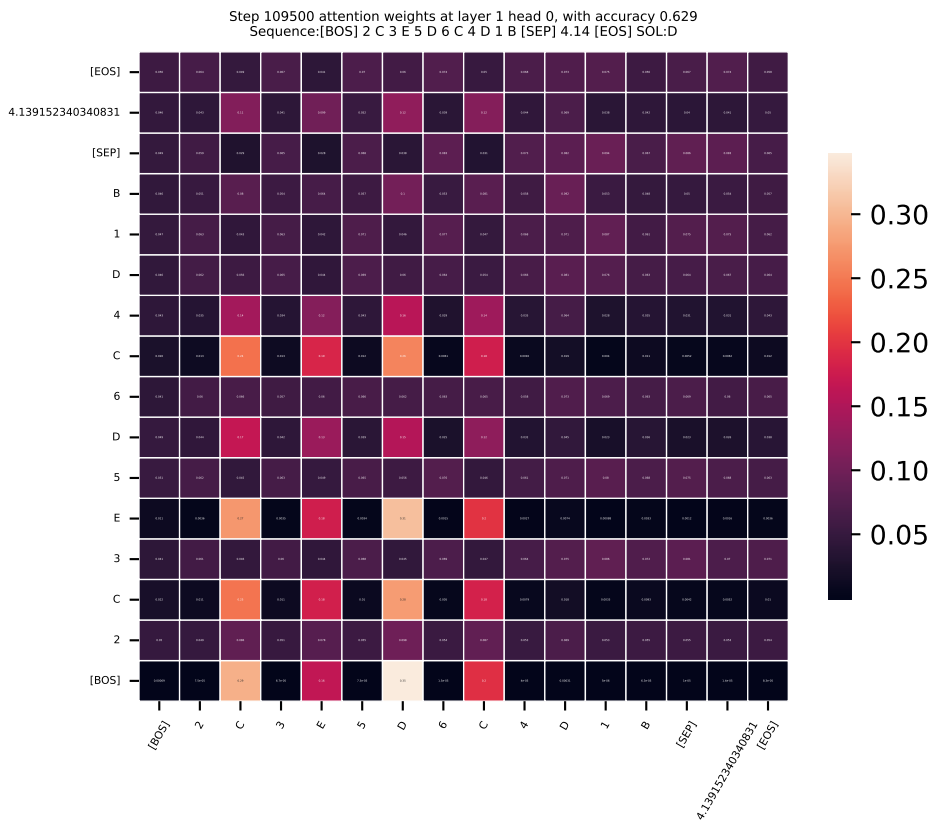
Step 109500 attention weights at layer 1 head 0, with accuracy 0.629
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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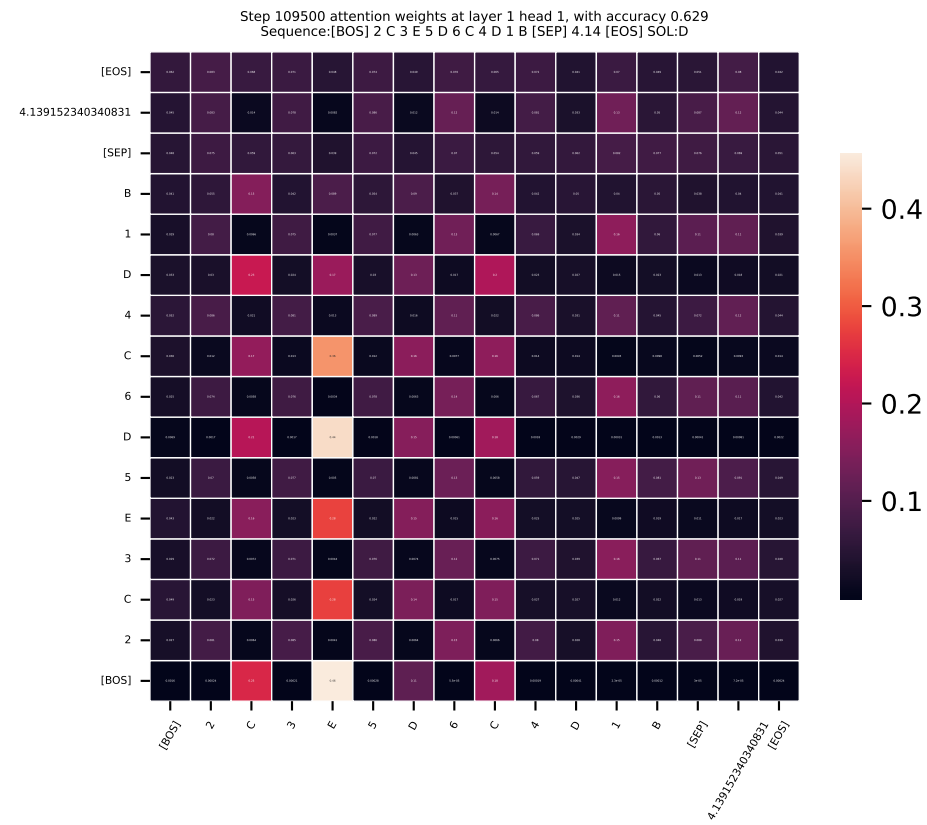
0.25
0.20
0.15
0.10
0.05


Step 109500 attention weights at layer 1 head 1, with accuracy 0.629
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
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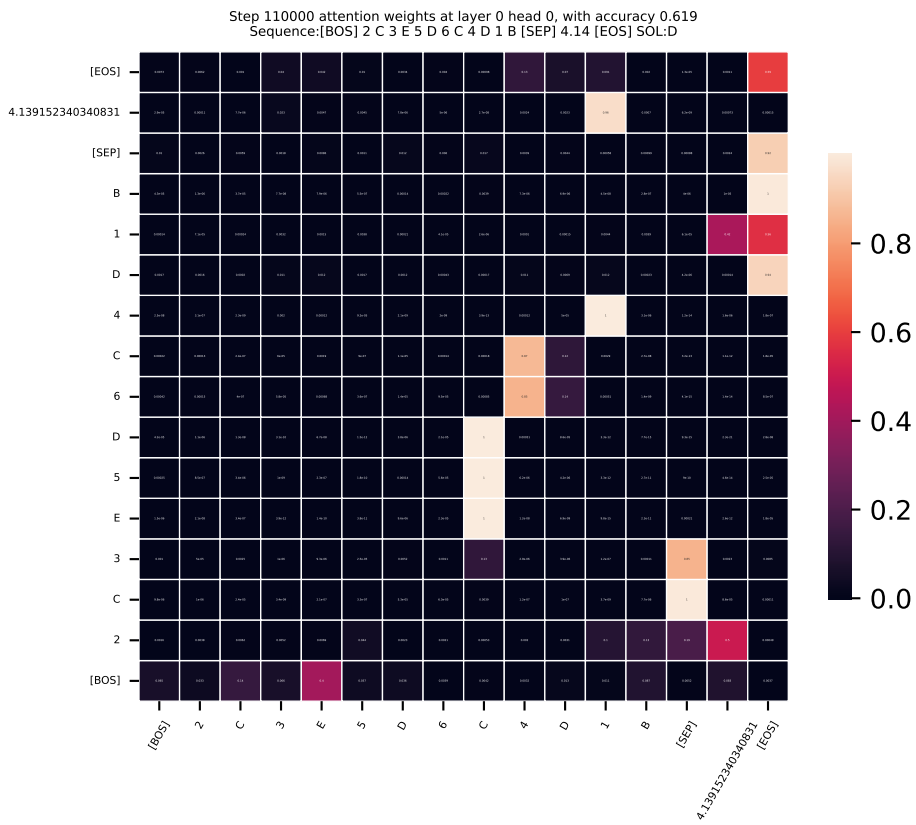
Step 110000 attention weights at layer 0 head 0, with accuracy 0.619
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[SEP]
B
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D
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C
6
D
5
E
3
C
2
[BOS]
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C
3
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D
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B
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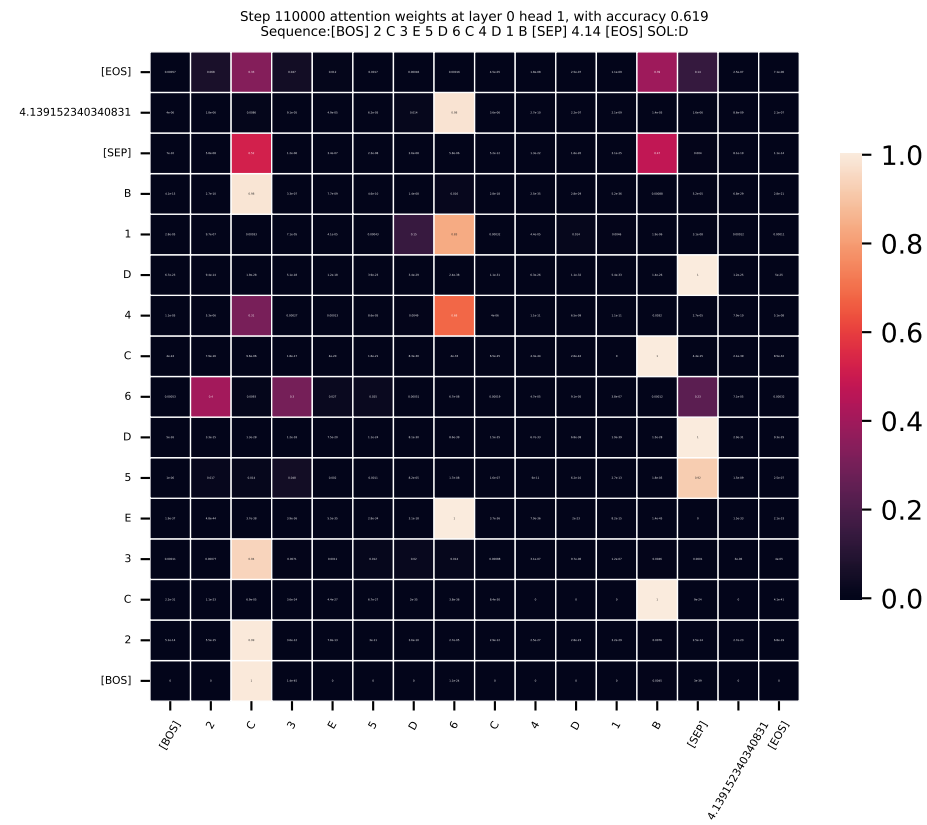
Step 110000 attention weights at layer 0 head 1, with accuracy 0.619
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
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C
6
D
5
E
3
C
2
[BOS]
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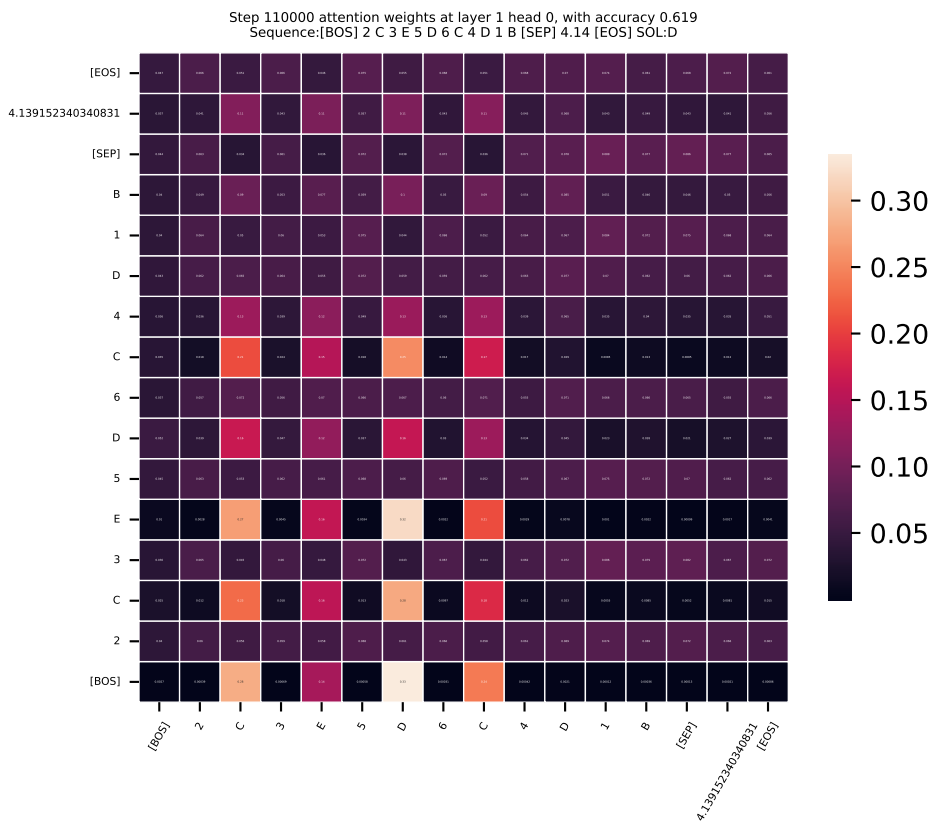
Step 110000 attention weights at layer 1 head 0, with accuracy 0.619
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
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D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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0.25
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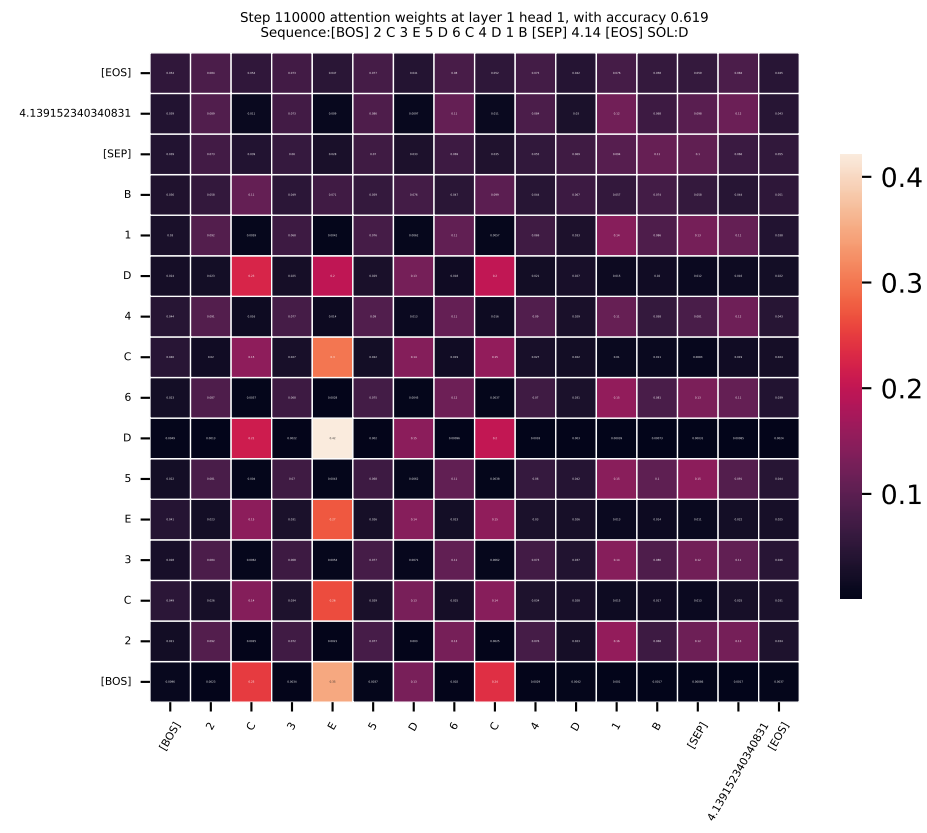
0.10
0.05


Step 110000 attention weights at layer 1 head 1, with accuracy 0.619
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
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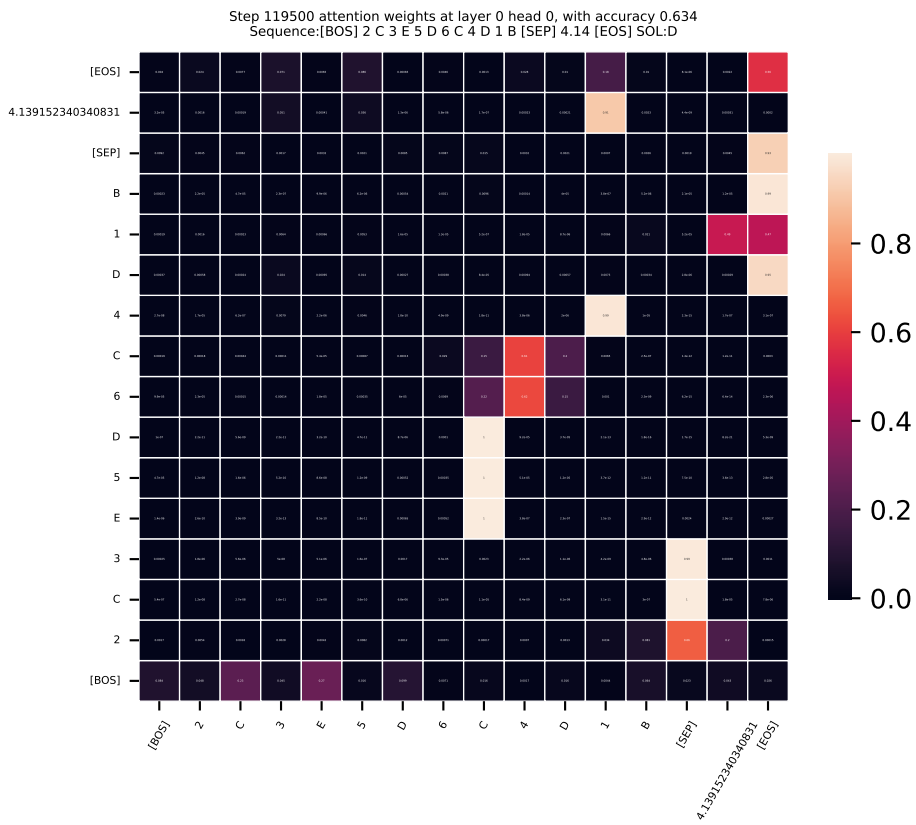
Step 119500 attention weights at layer 0 head 0, with accuracy 0.634
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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0.6
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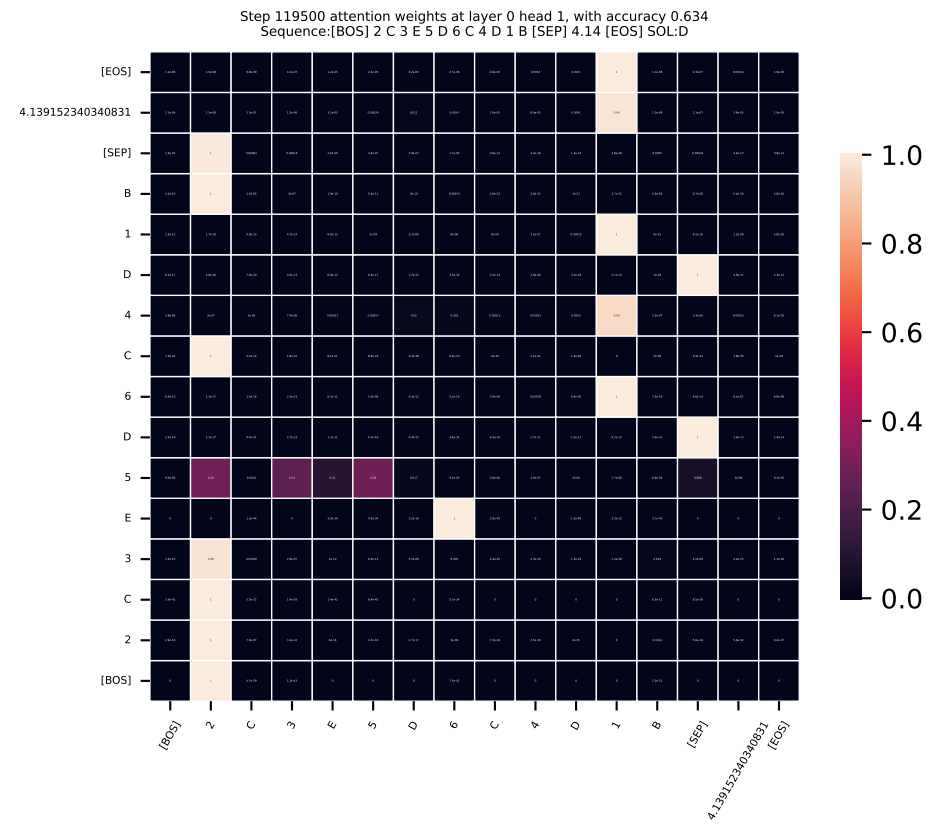
Step 119500 attention weights at layer 0 head 1, with accuracy 0.634
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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0.6
0.4
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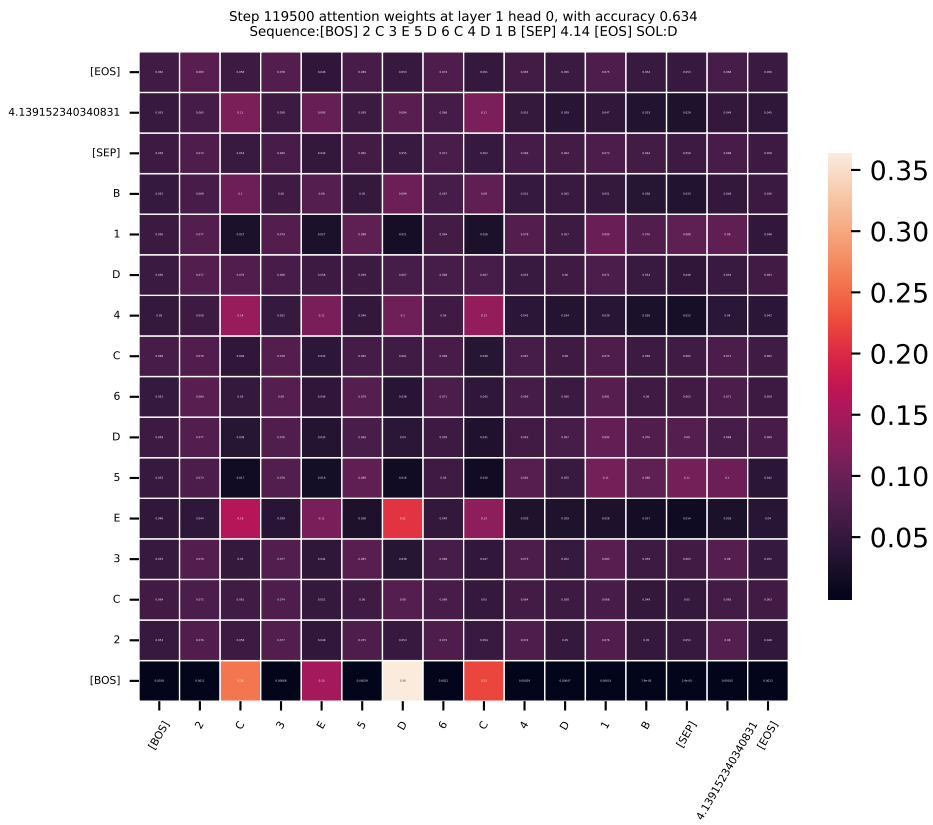
Step 119500 attention weights at layer 1 head 0, with accuracy 0.634
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
0.35
0.30
0.25
0.20
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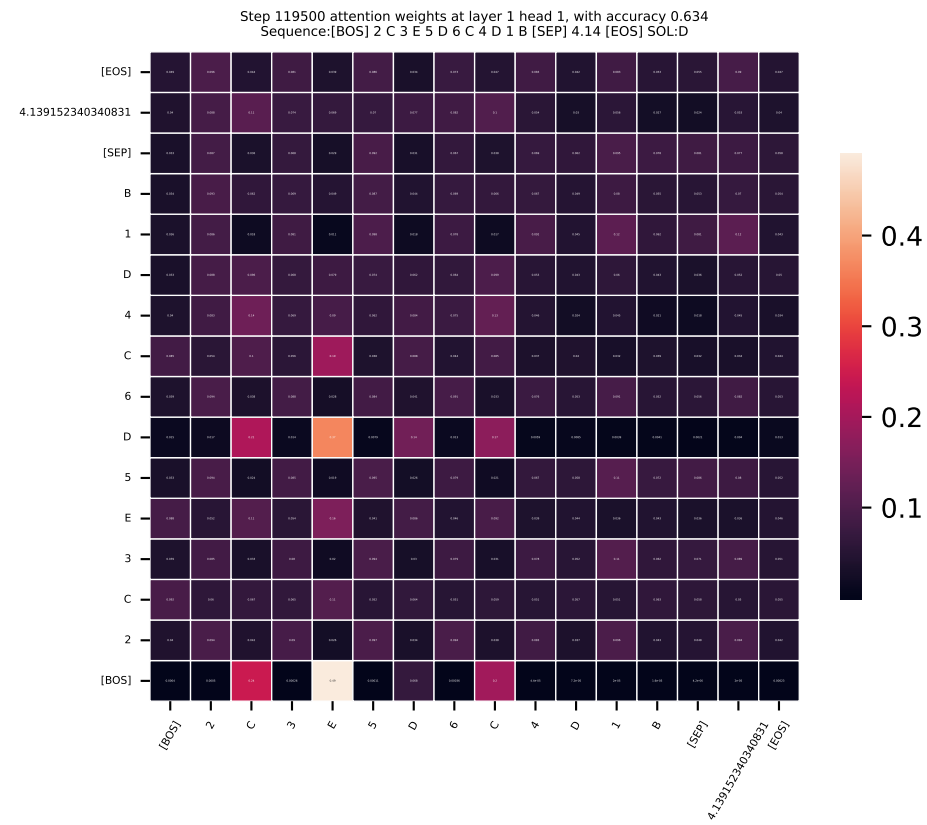
0.10
0.05


Step 119500 attention weights at layer 1 head 1, with accuracy 0.634
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
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D
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C
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D
5
E
3
C
2
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0.3
0.2
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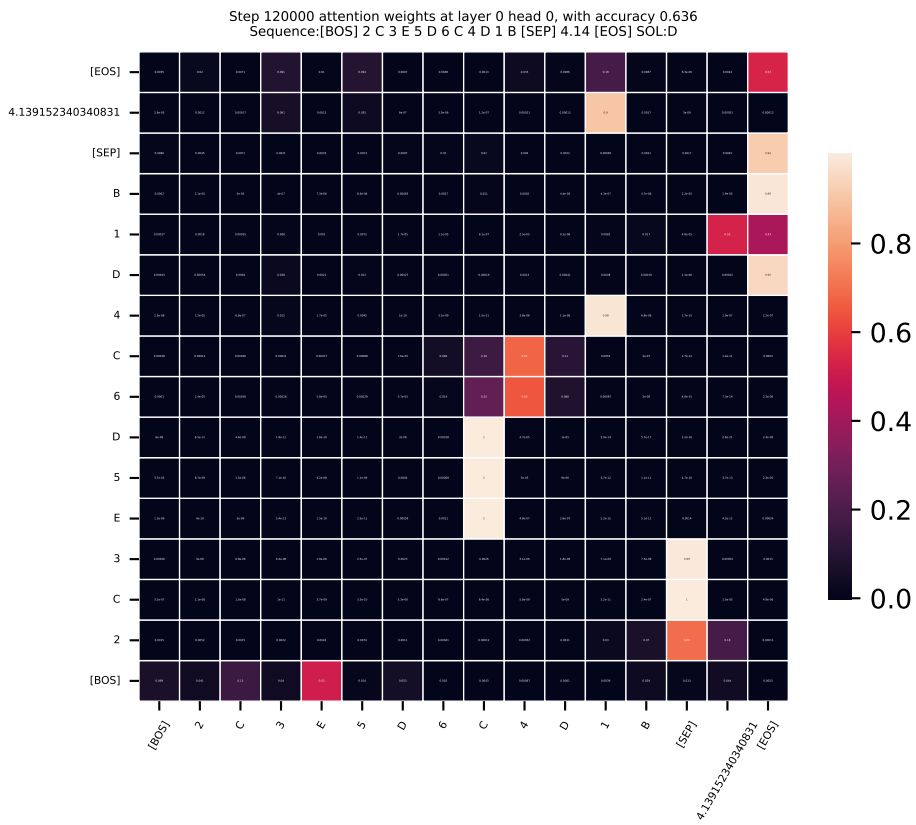
Step 120000 attention weights at layer 0 head 0, with accuracy 0.636
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
6
C
4
D
1
B
[SEP]
4.139152340340831
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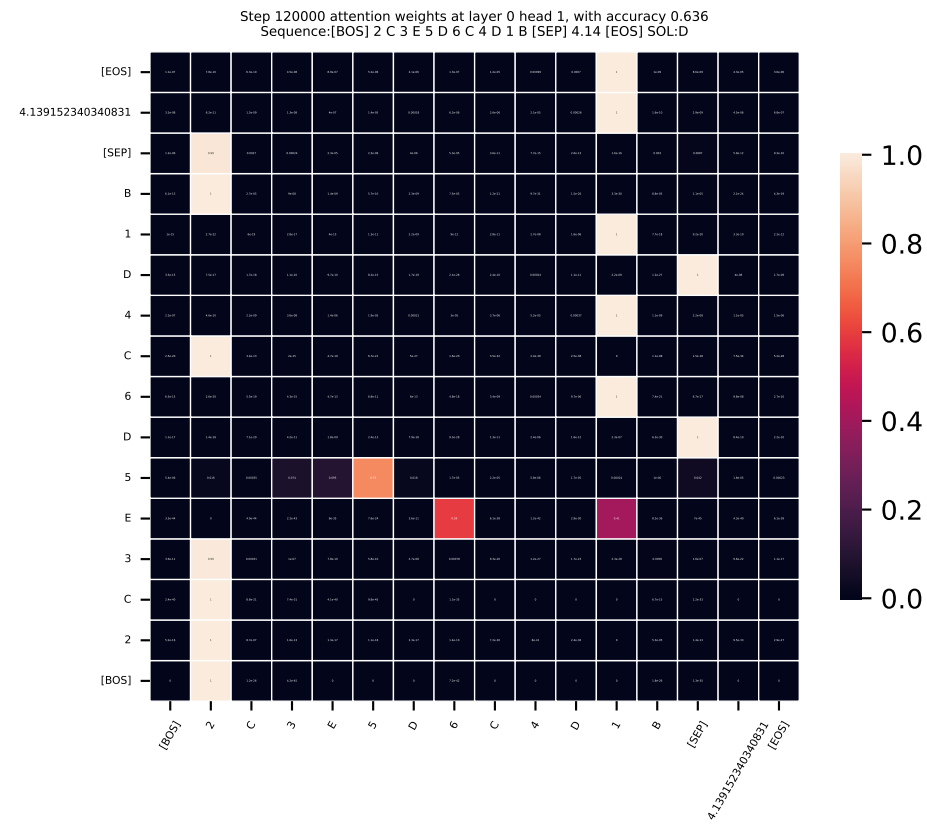
Step 120000 attention weights at layer 0 head 1, with accuracy 0.636
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
6
C
4
D
1
B
[SEP]
4.139152340340831
[EOS]
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0.8
0.6
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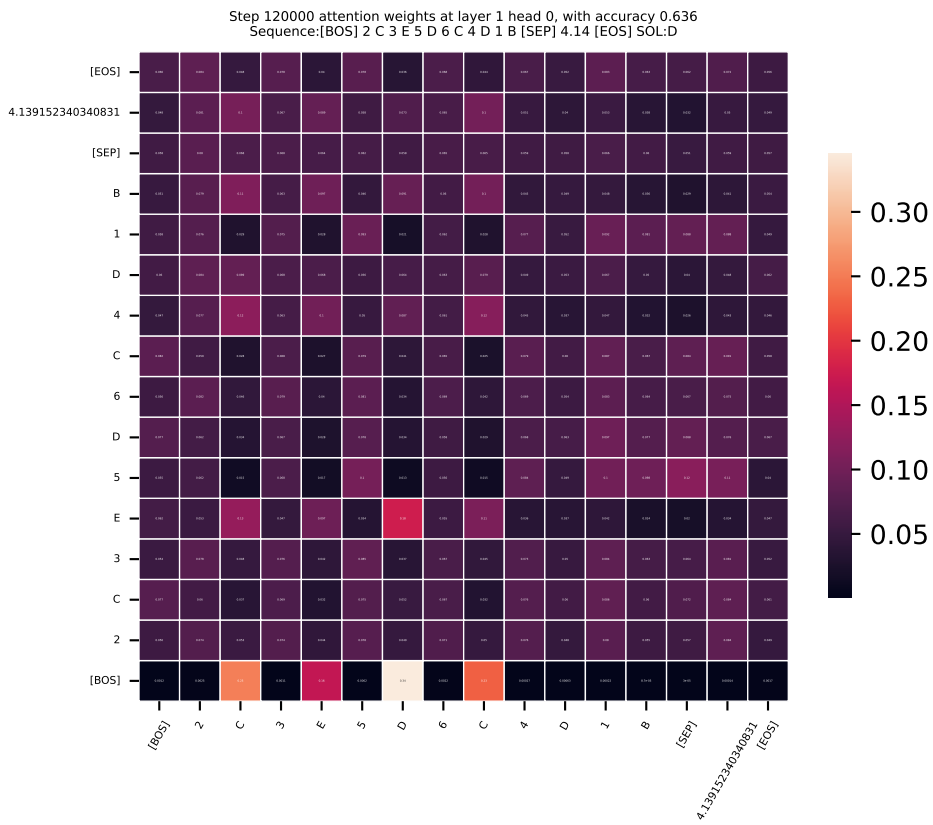
Step 120000 attention weights at layer 1 head 0, with accuracy 0.636
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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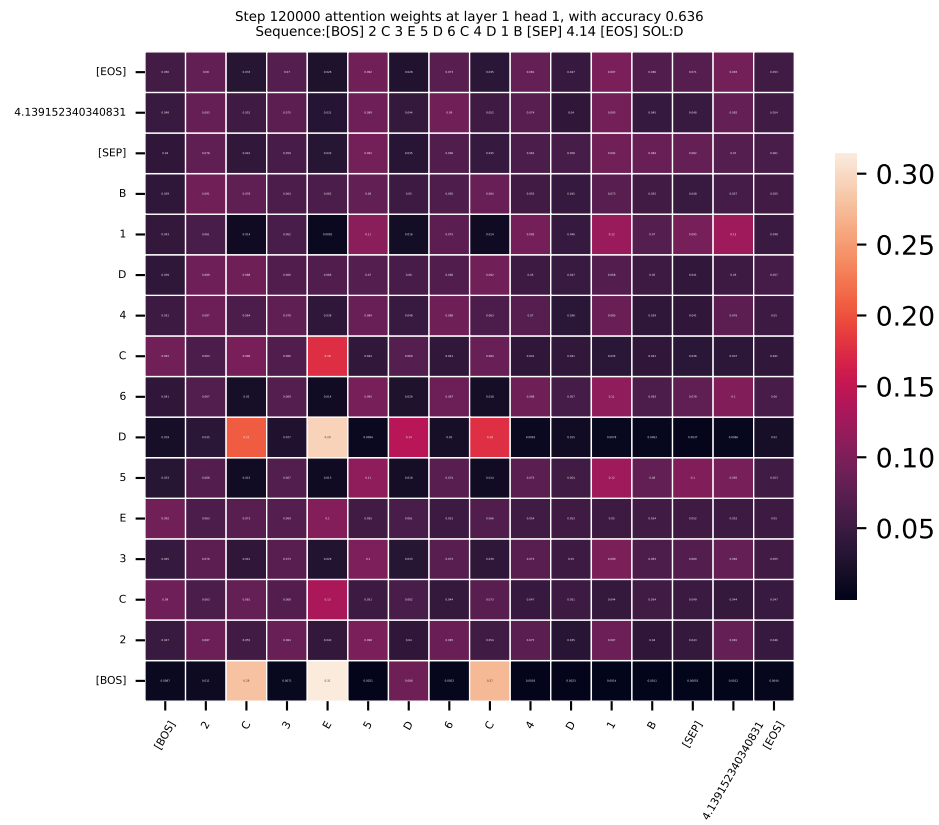
0.15
0.10
0.05


Step 120000 attention weights at layer 1 head 1, with accuracy 0.636
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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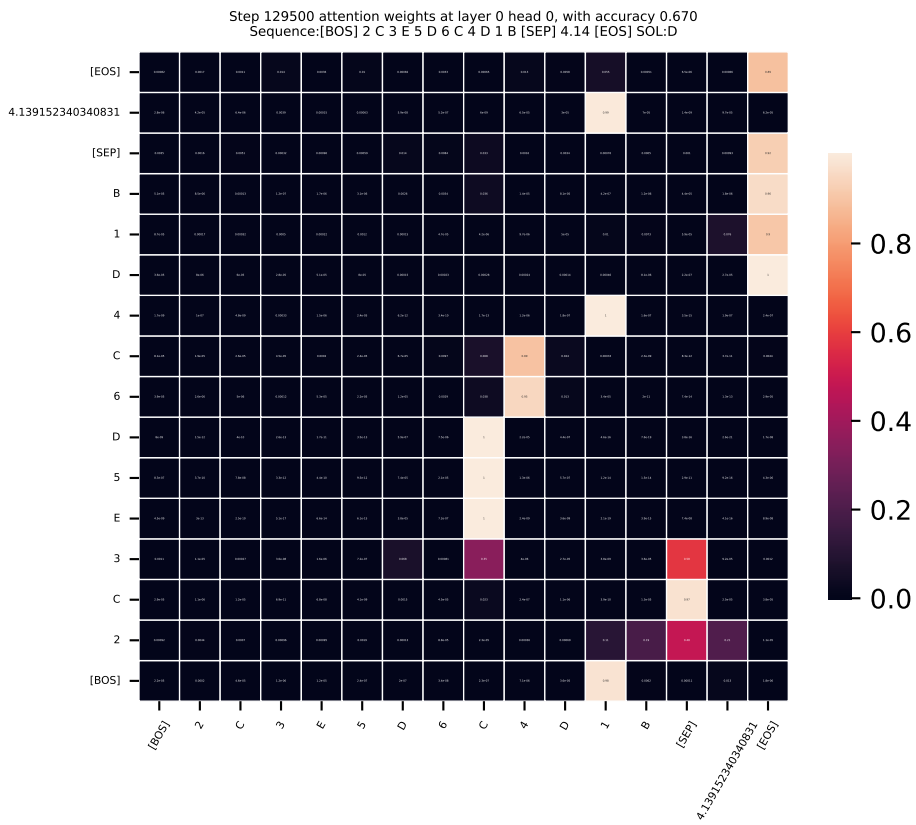
0.10
0.05


Step 129500 attention weights at layer 0 head 0, with accuracy 0.670
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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0.6
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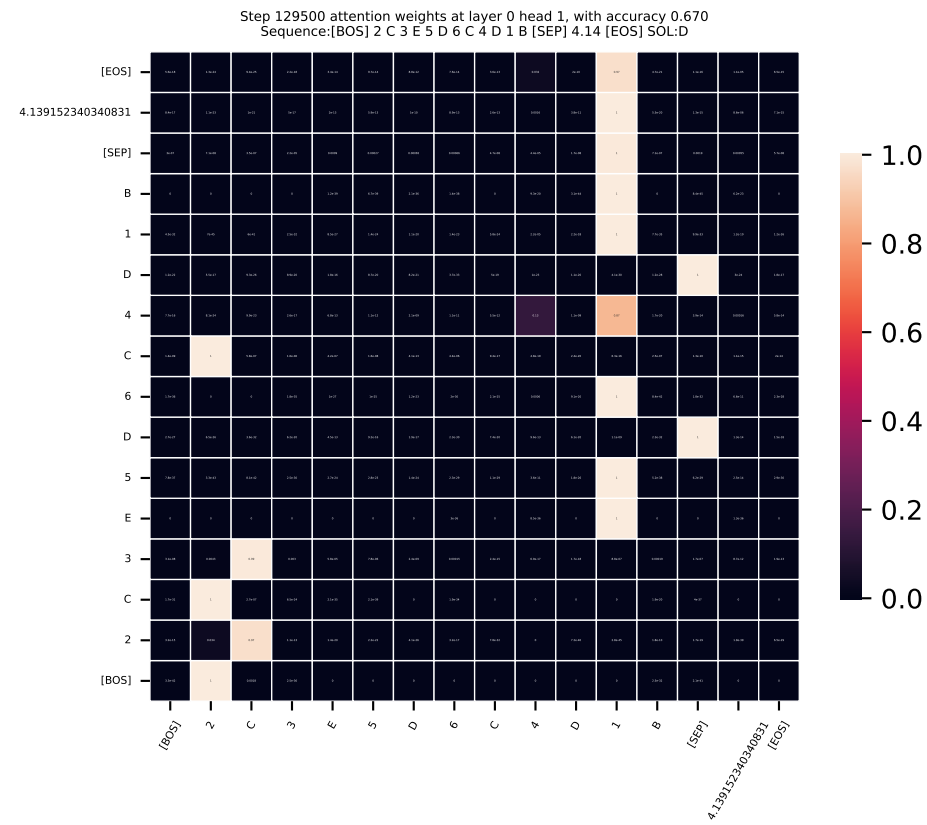
Step 129500 attention weights at layer 0 head 1, with accuracy 0.670
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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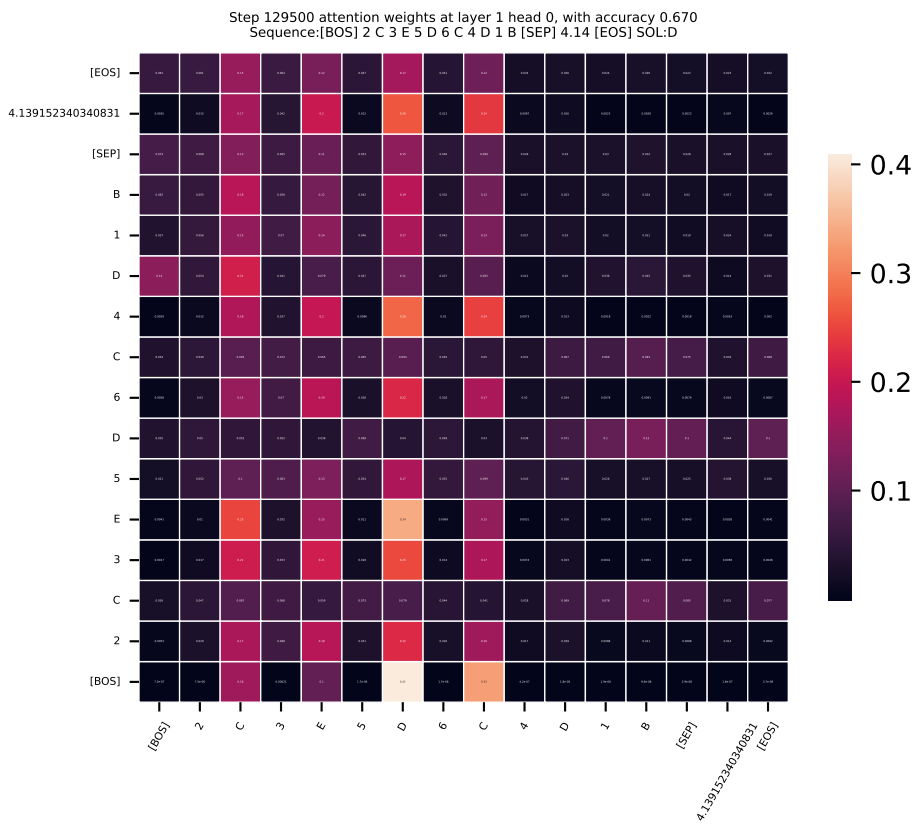
Step 129500 attention weights at layer 1 head 0, with accuracy 0.670
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
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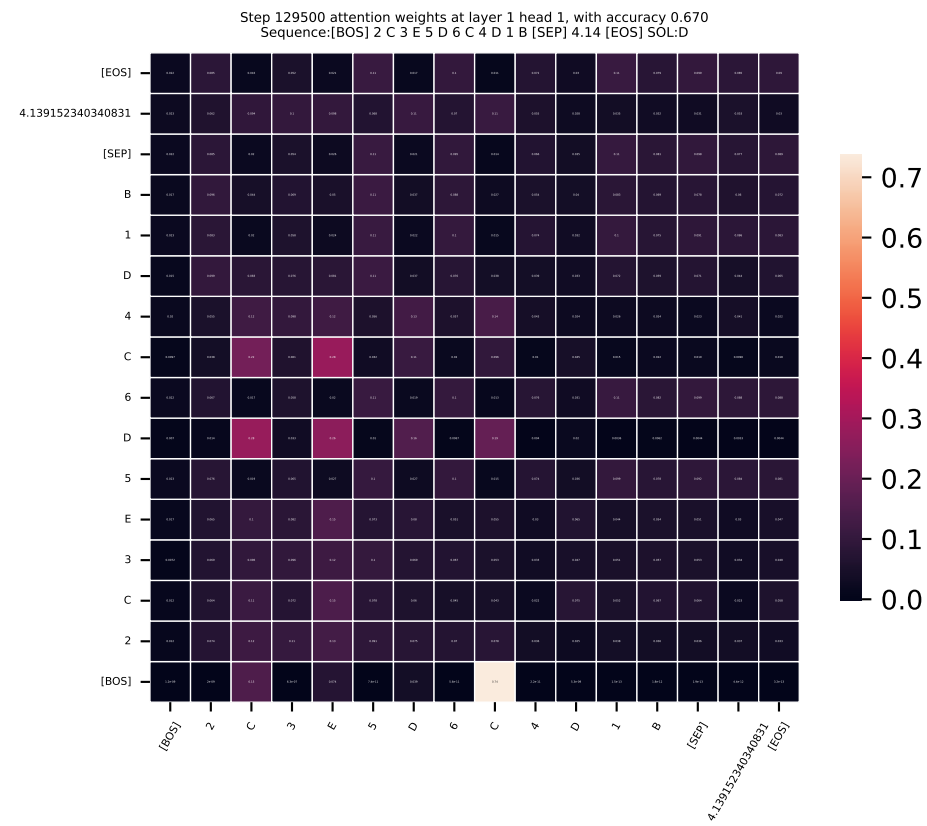
Step 129500 attention weights at layer 1 head 1, with accuracy 0.670
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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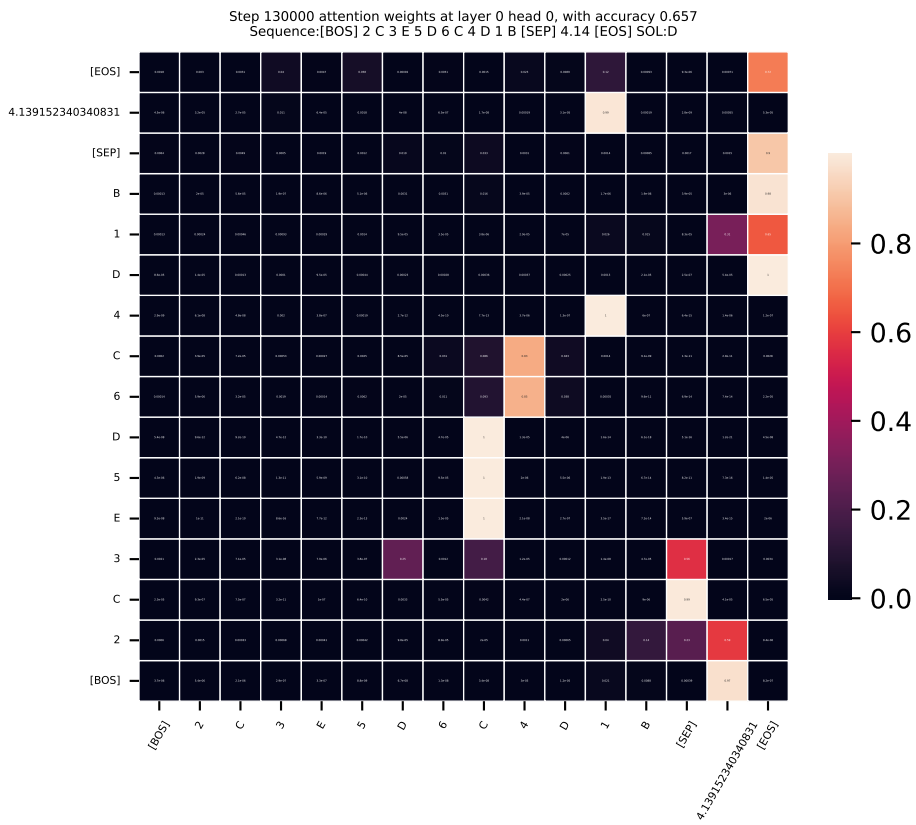
0.4
0.3
0.2
0.1
0.0


Step 130000 attention weights at layer 0 head 0, with accuracy 0.657
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[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
6
C
4
D
1
B
[SEP]
4.139152340340831
[EOS]
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0.6
0.4
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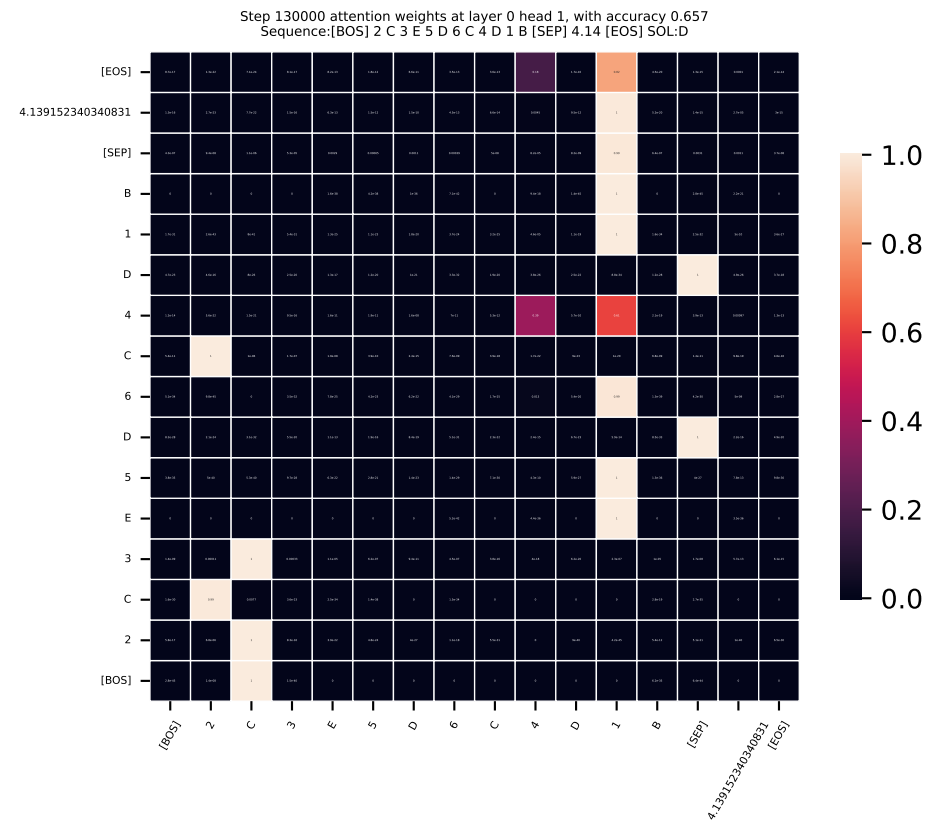
Step 130000 attention weights at layer 0 head 1, with accuracy 0.657
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[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
6
C
4
D
1
B
[SEP]
4.139152340340831
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0.6
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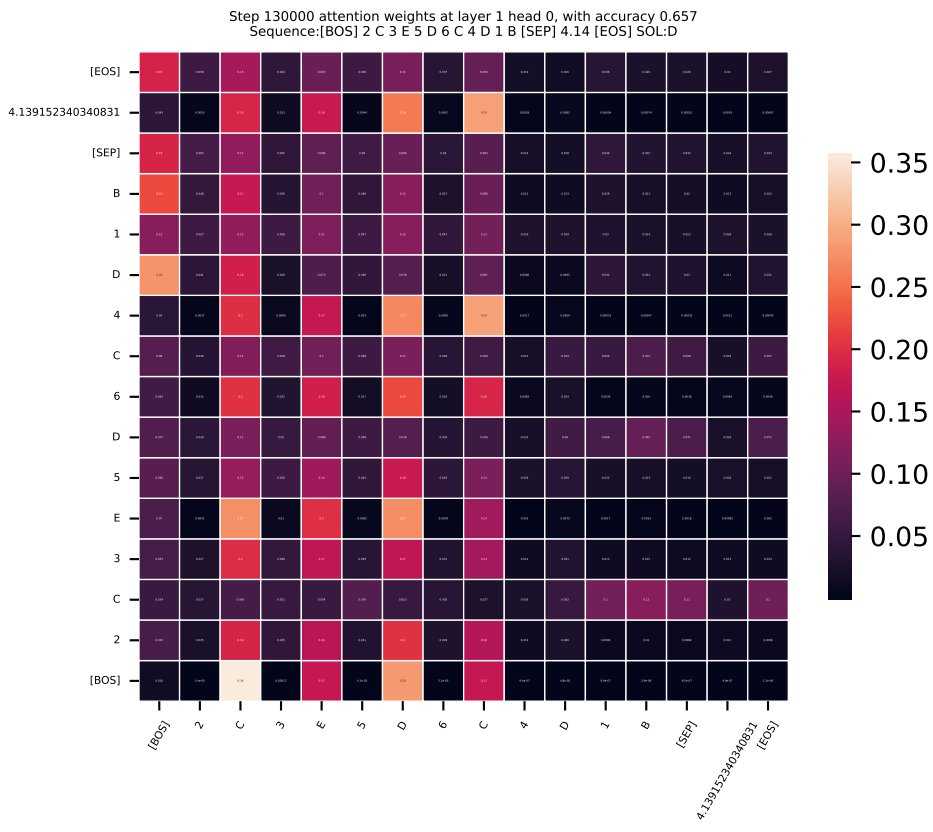
Step 130000 attention weights at layer 1 head 0, with accuracy 0.657
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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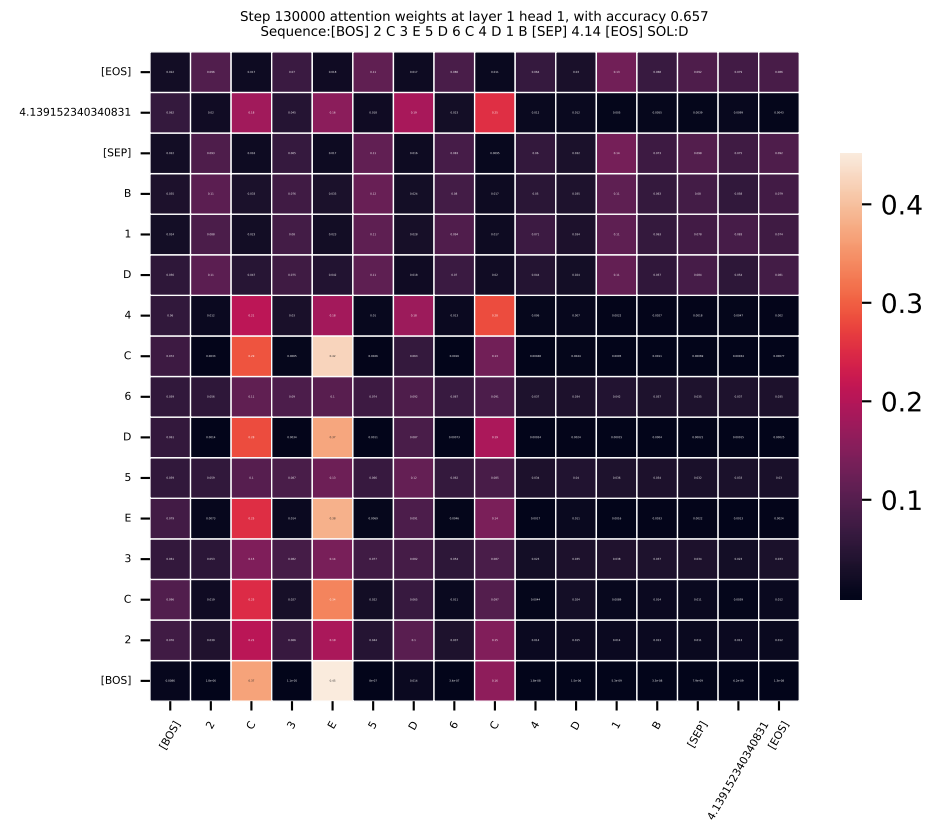
0.15
0.10
0.05


Step 130000 attention weights at layer 1 head 1, with accuracy 0.657
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[EOS]
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[SEP]
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1
D
4
C
6
D
5
E
3
C
2
[BOS]
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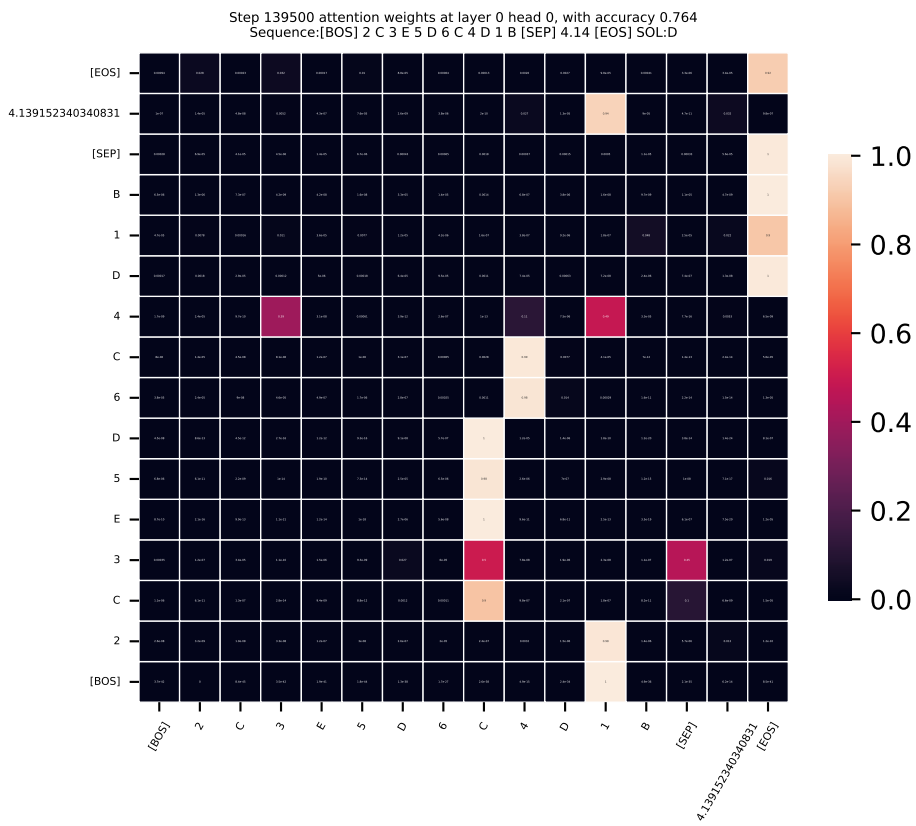
Step 139500 attention weights at layer 0 head 0, with accuracy 0.764
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[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
6
C
4
D
1
B
[SEP]
4.139152340340831
[EOS]
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0.8
0.6
0.4
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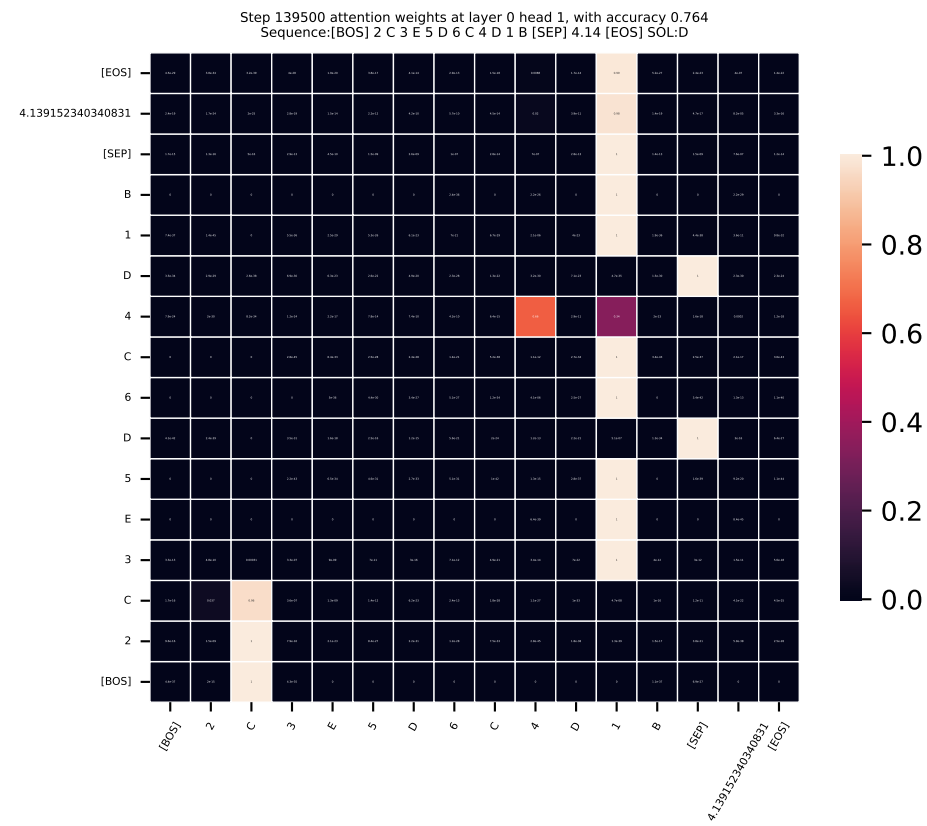
Step 139500 attention weights at layer 0 head 1, with accuracy 0.764
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
6
C
4
D
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B
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4.139152340340831
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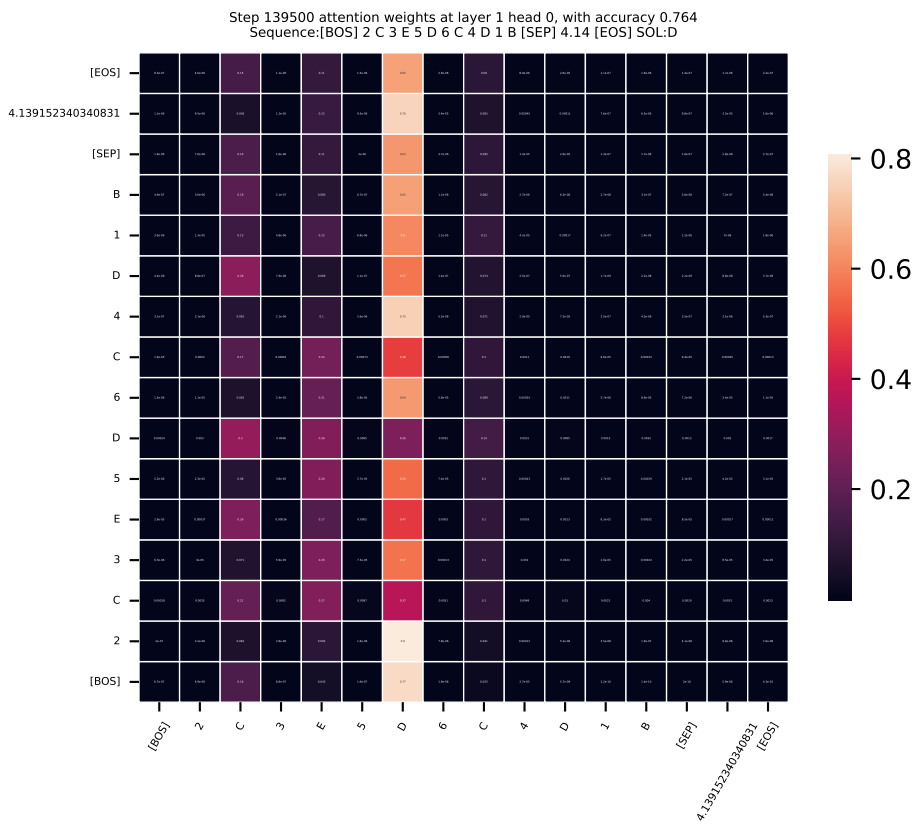
Step 139500 attention weights at layer 1 head 0, with accuracy 0.764
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
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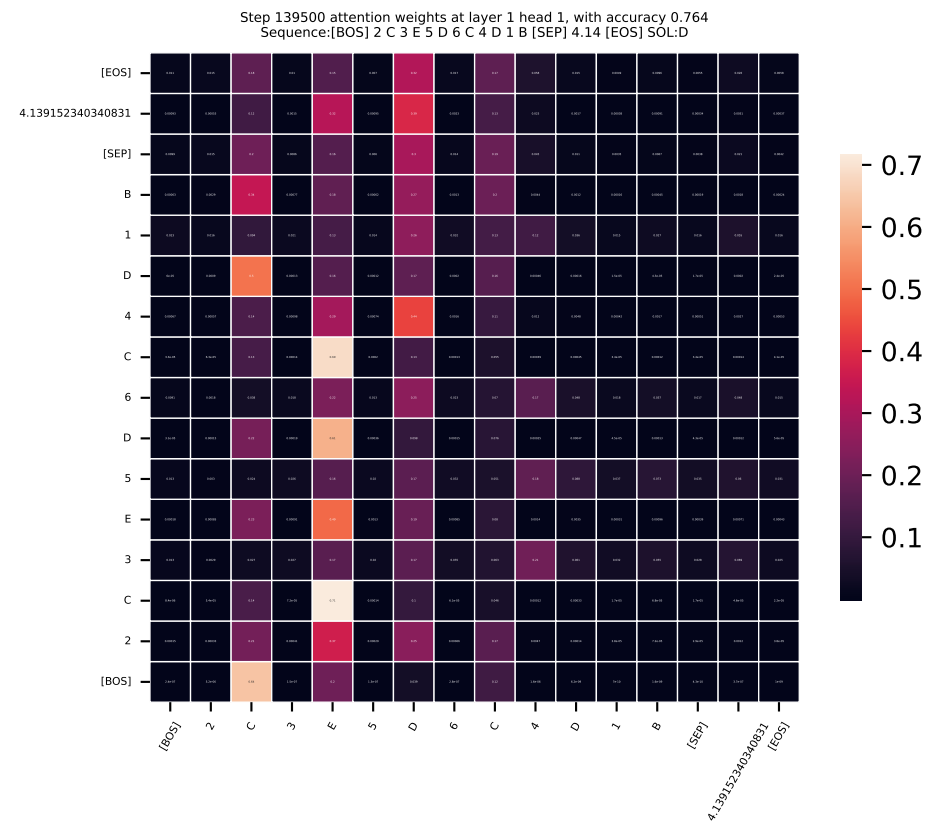
0.6
0.4
0.2


Step 139500 attention weights at layer 1 head 1, with accuracy 0.764
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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0.4
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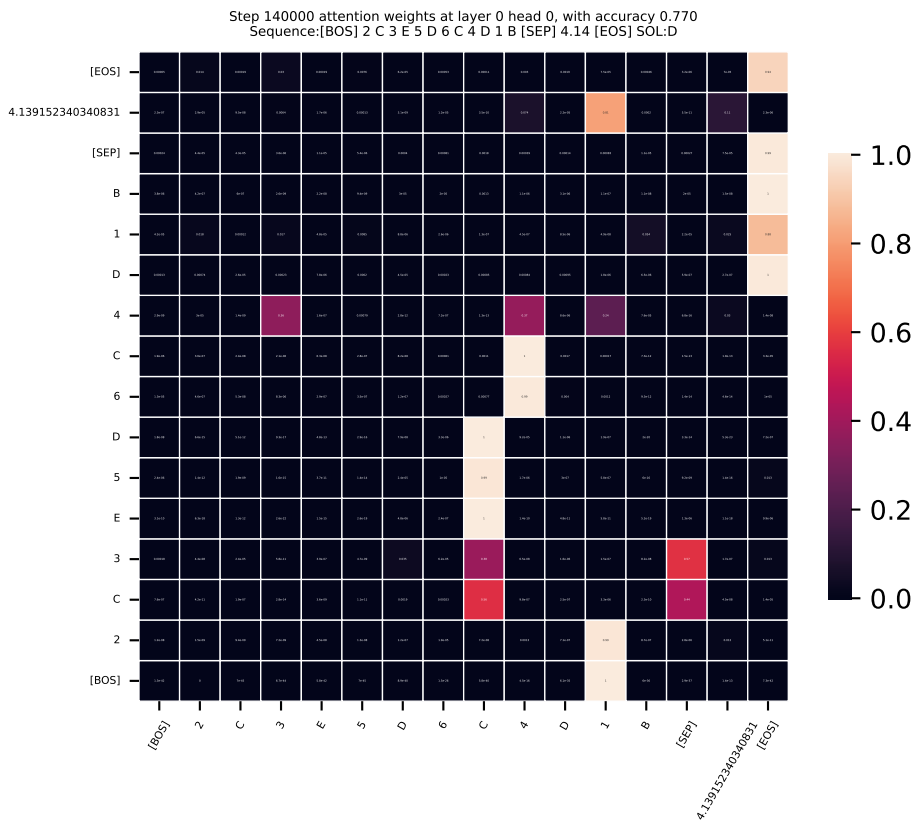
0.2
0.1


Step 140000 attention weights at layer 0 head 0, with accuracy 0.770
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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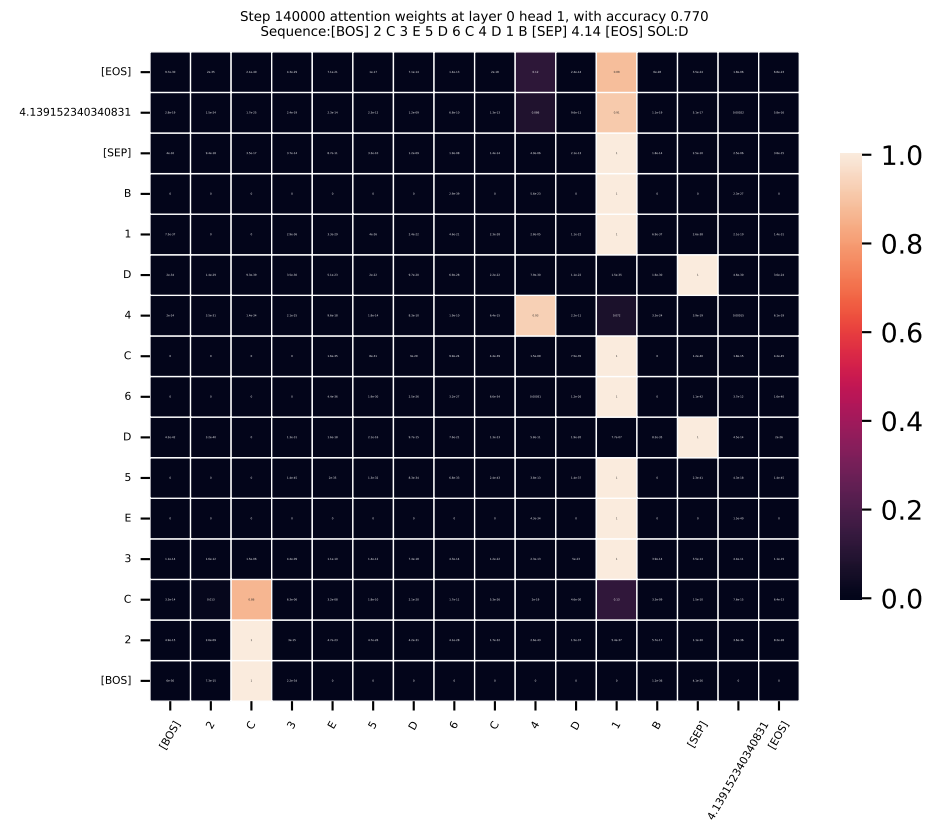
Step 140000 attention weights at layer 0 head 1, with accuracy 0.770
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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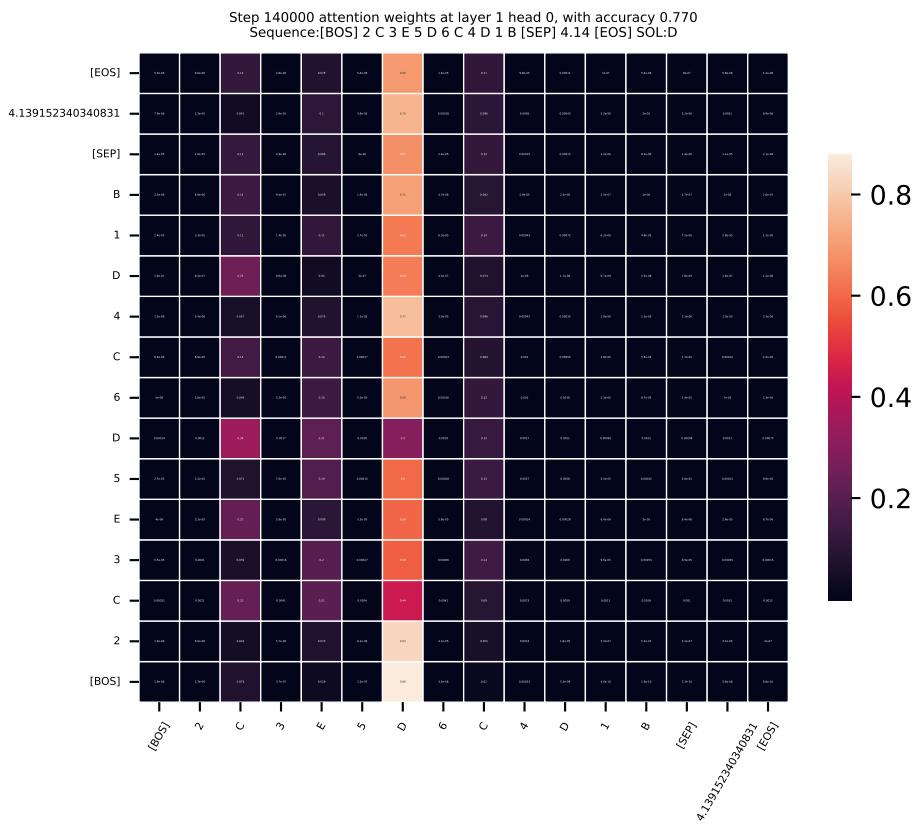
Step 140000 attention weights at layer 1 head 0, with accuracy 0.770
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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C
3
E
5
D
6
C
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D
1
B
[SEP]
4.139152340340831
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0.4
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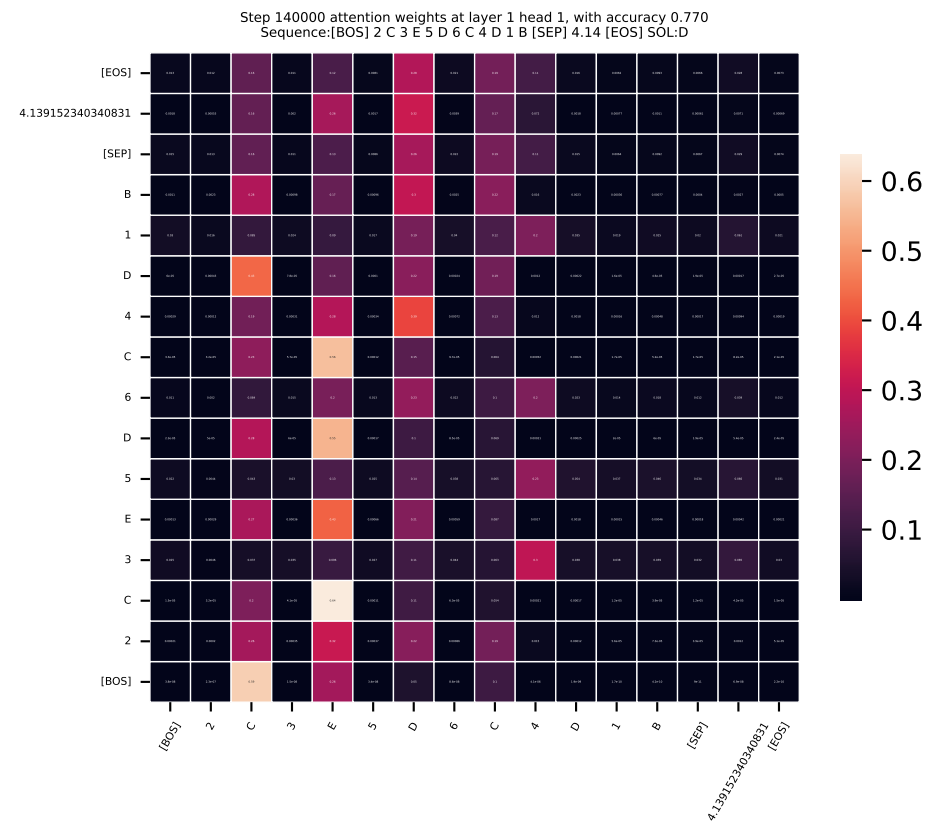
Step 140000 attention weights at layer 1 head 1, with accuracy 0.770
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
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3
E
5
D
6
C
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[SEP]
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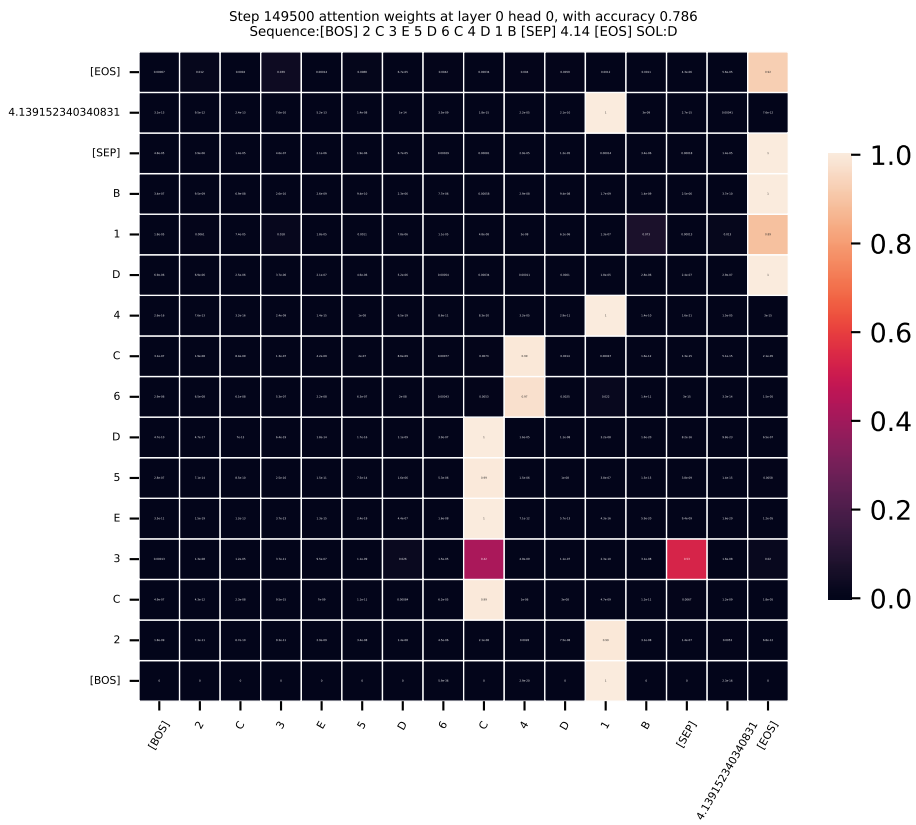
Step 149500 attention weights at layer 0 head 0, with accuracy 0.786
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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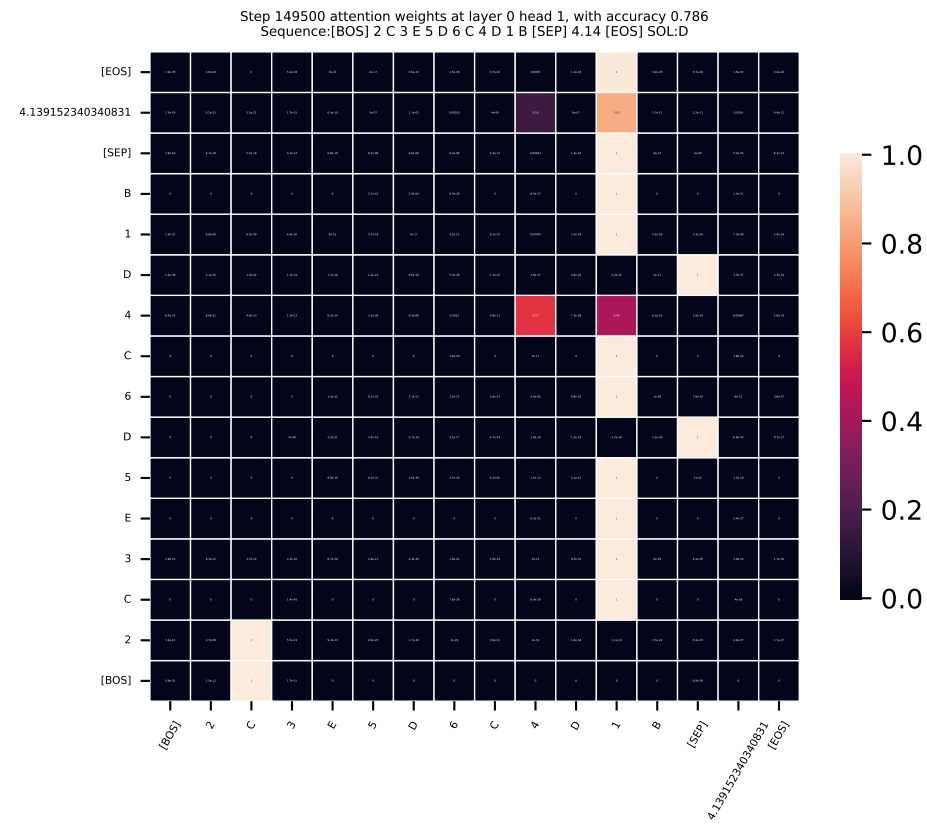
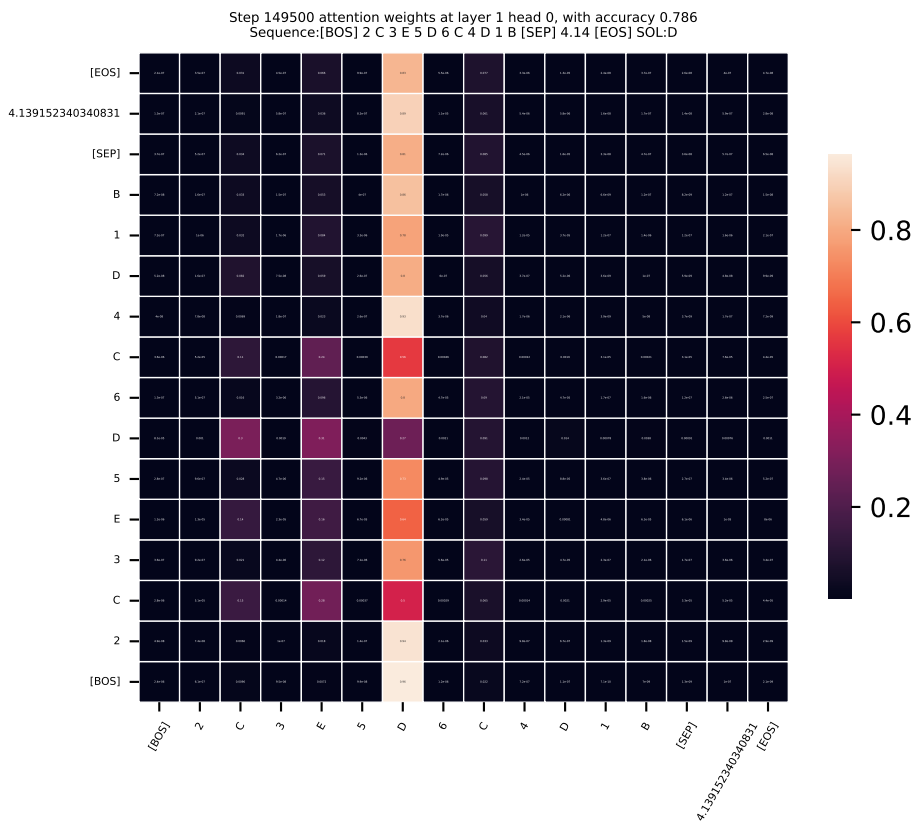
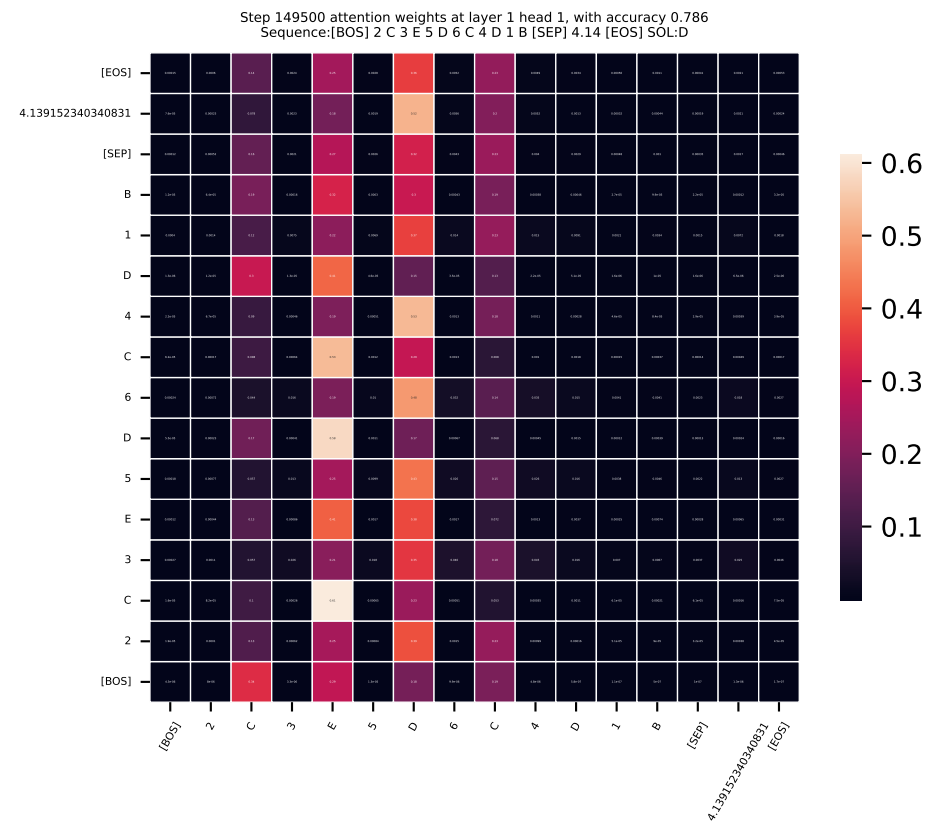

Step 149500 attention weights at layer 0 head 1, with accuracy 0.786
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
1.0
0.8
0.6
0.4
0.2
0.0


Step 149500 attention weights at layer 1 head 0, with accuracy 0.786
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
0.8
0.6
0.4
0.2


Step 149500 attention weights at layer 1 head 1, with accuracy 0.786
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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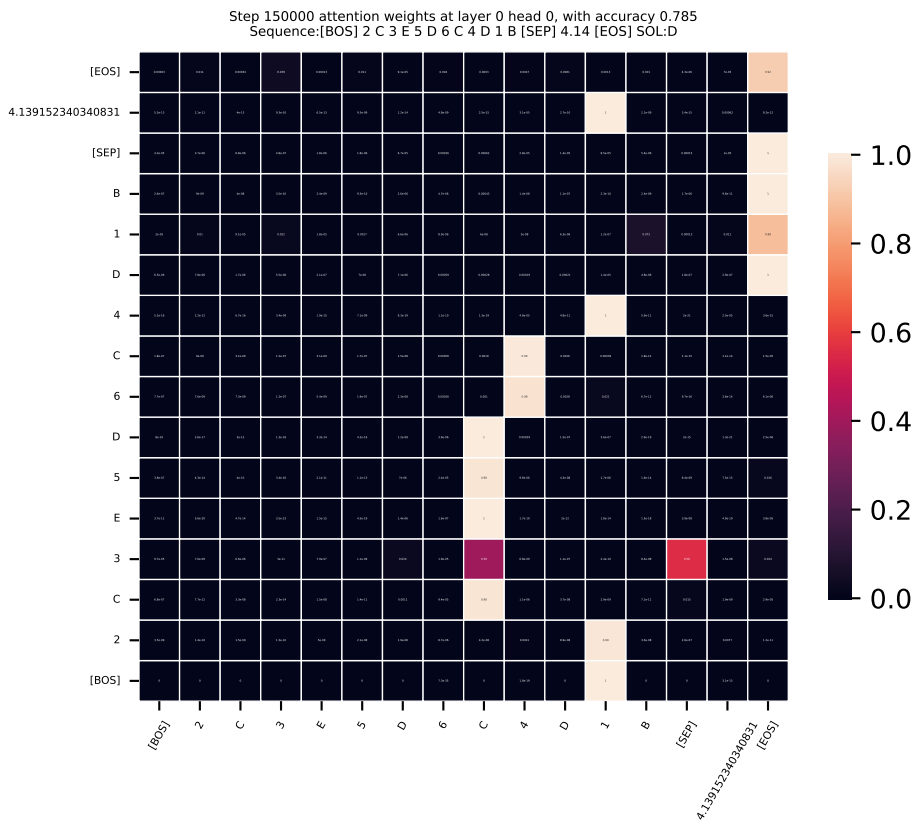
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
0.6
0.5
0.4
0.3
0.2
0.1


Step 150000 attention weights at layer 0 head 0, with accuracy 0.785
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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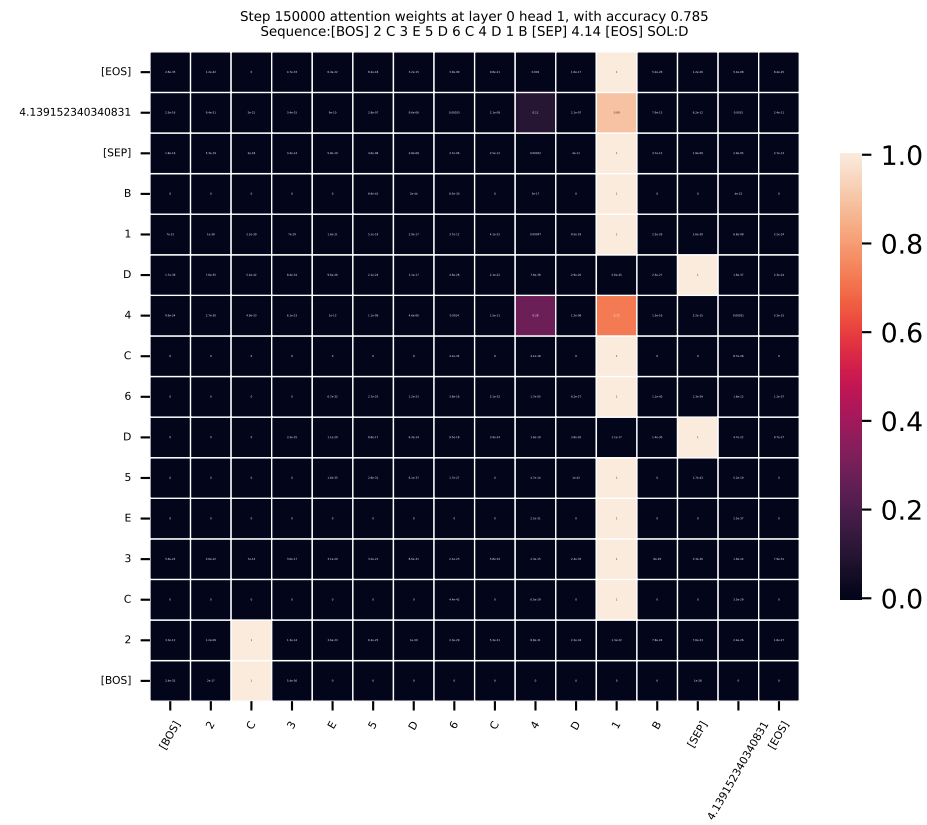
Step 150000 attention weights at layer 0 head 1, with accuracy 0.785
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[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
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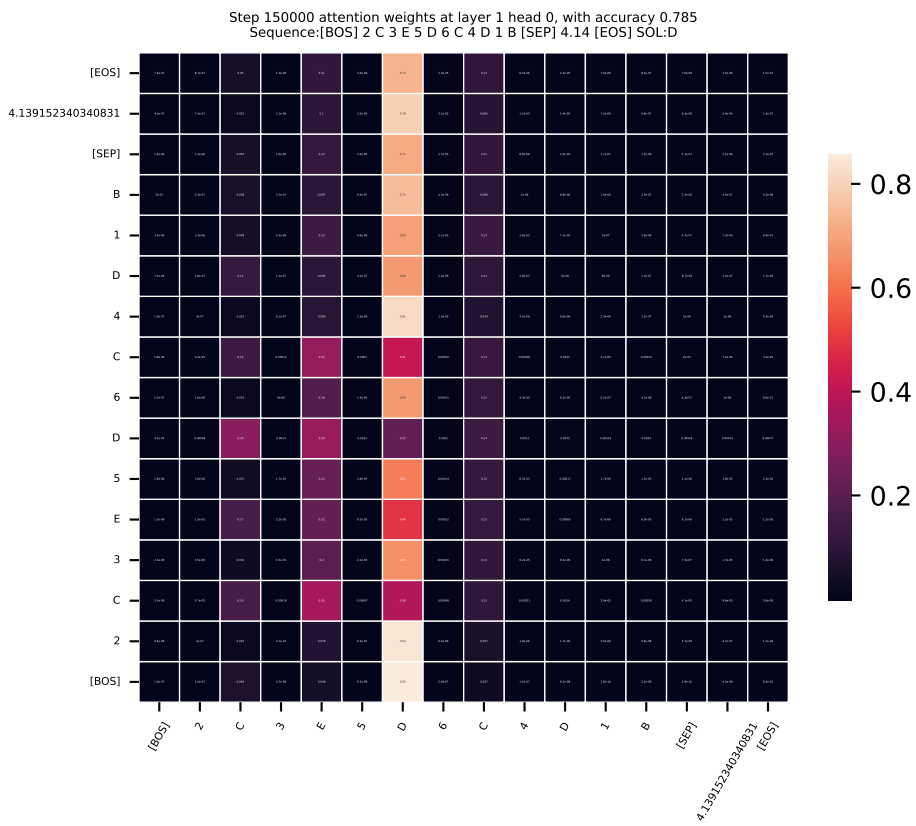
Step 150000 attention weights at layer 1 head 0, with accuracy 0.785
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C
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E
3
C
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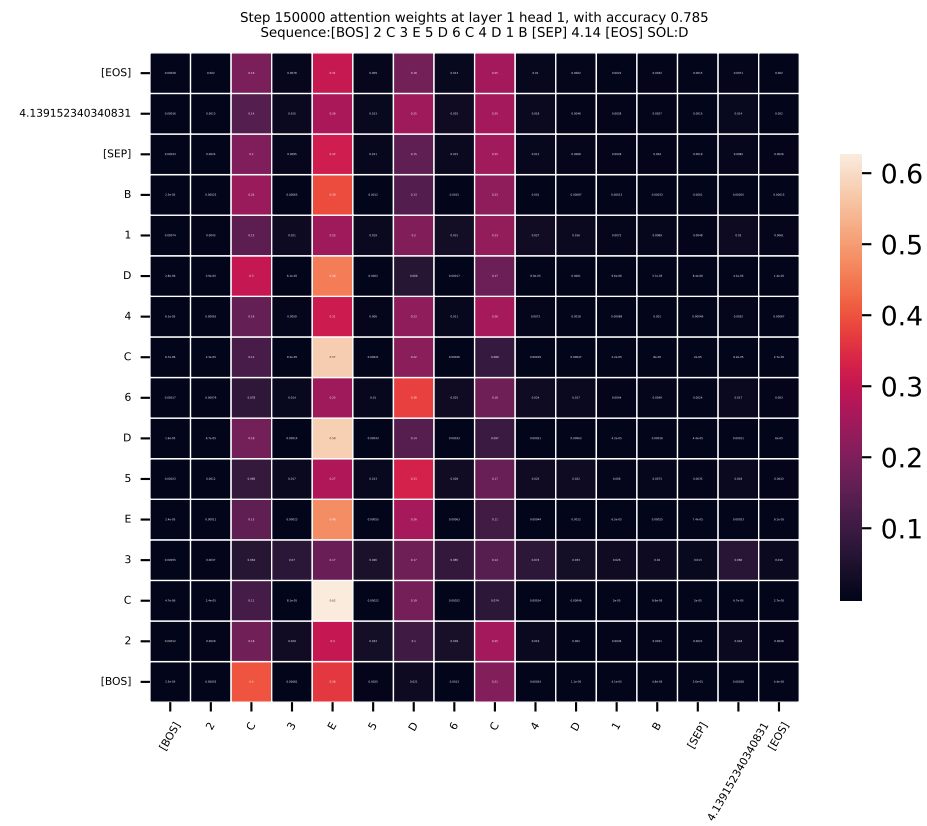
Step 150000 attention weights at layer 1 head 1, with accuracy 0.785
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C
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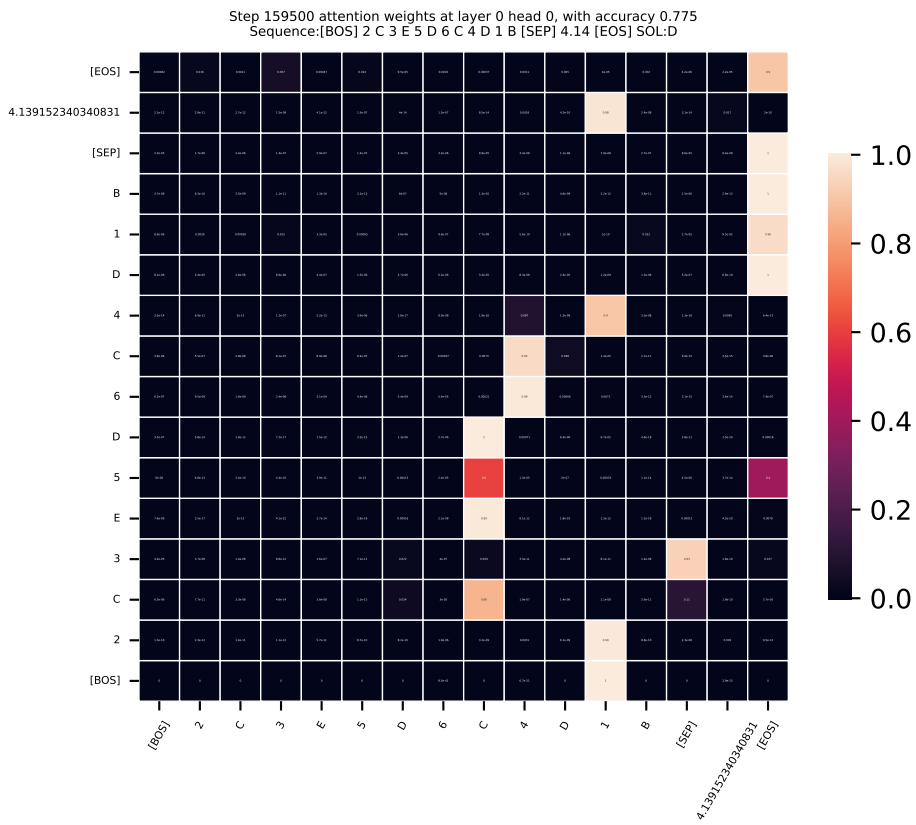
Step 159500 attention weights at layer 0 head 0, with accuracy 0.775
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E
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C
2
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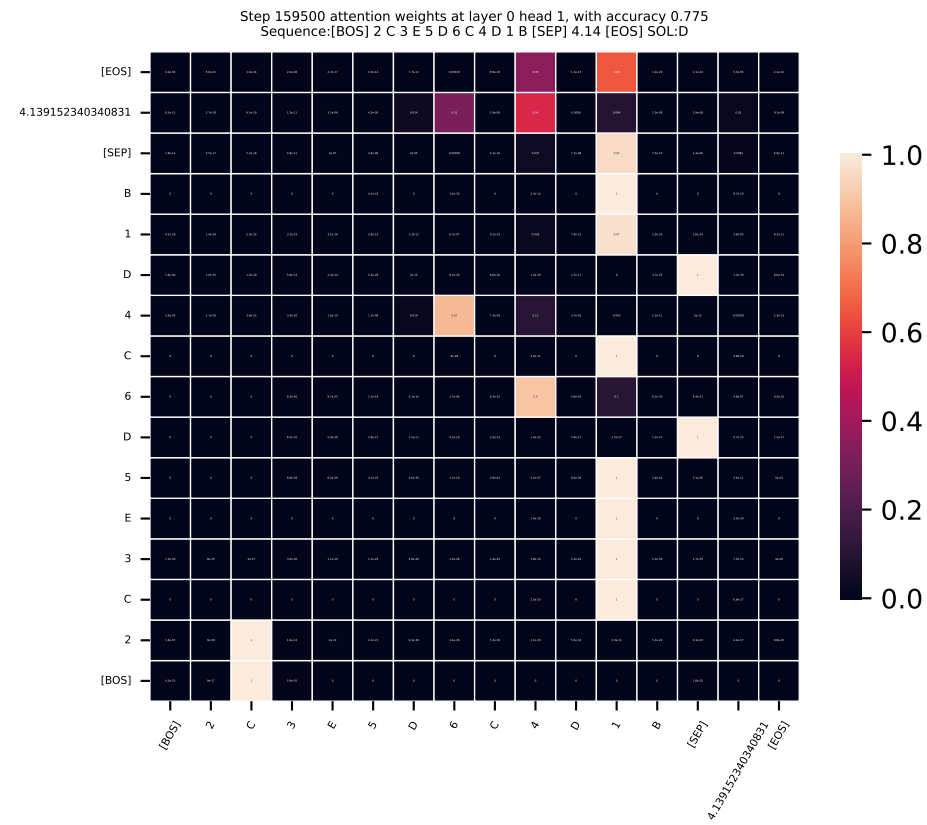
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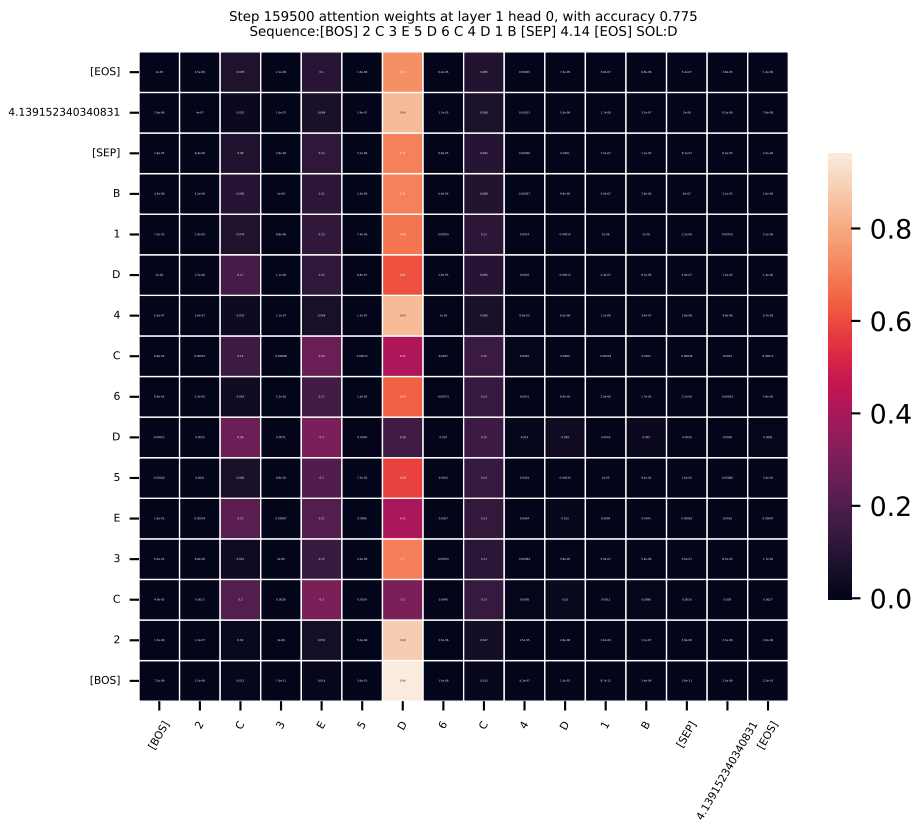
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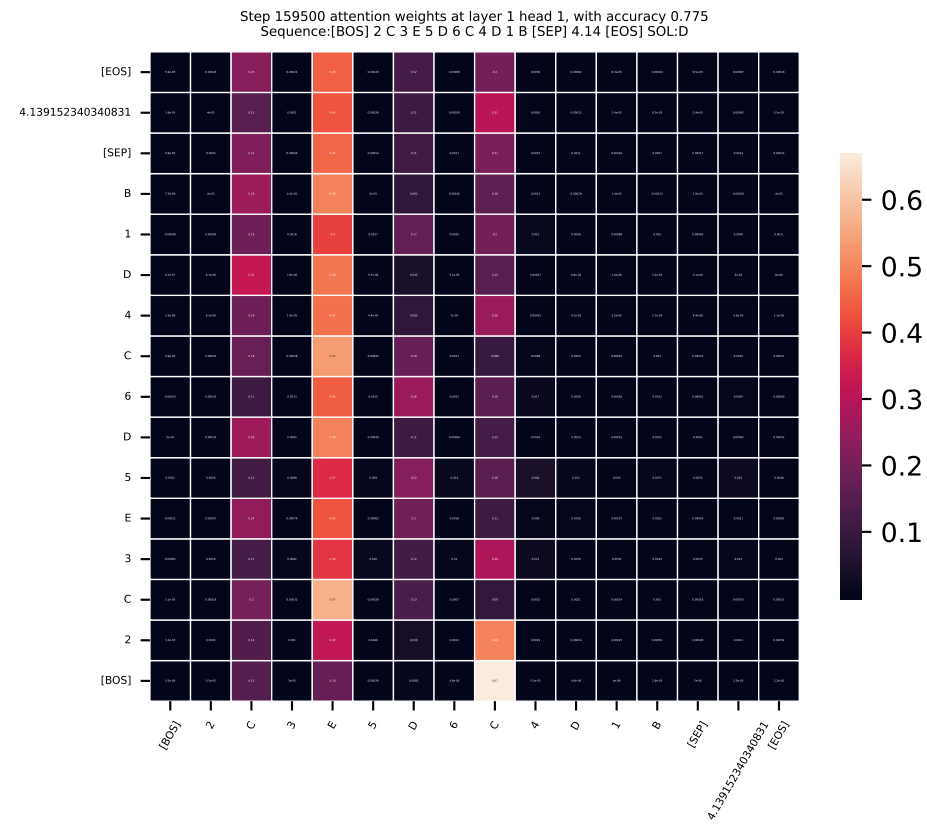
Step 159500 attention weights at layer 1 head 1, with accuracy 0.775
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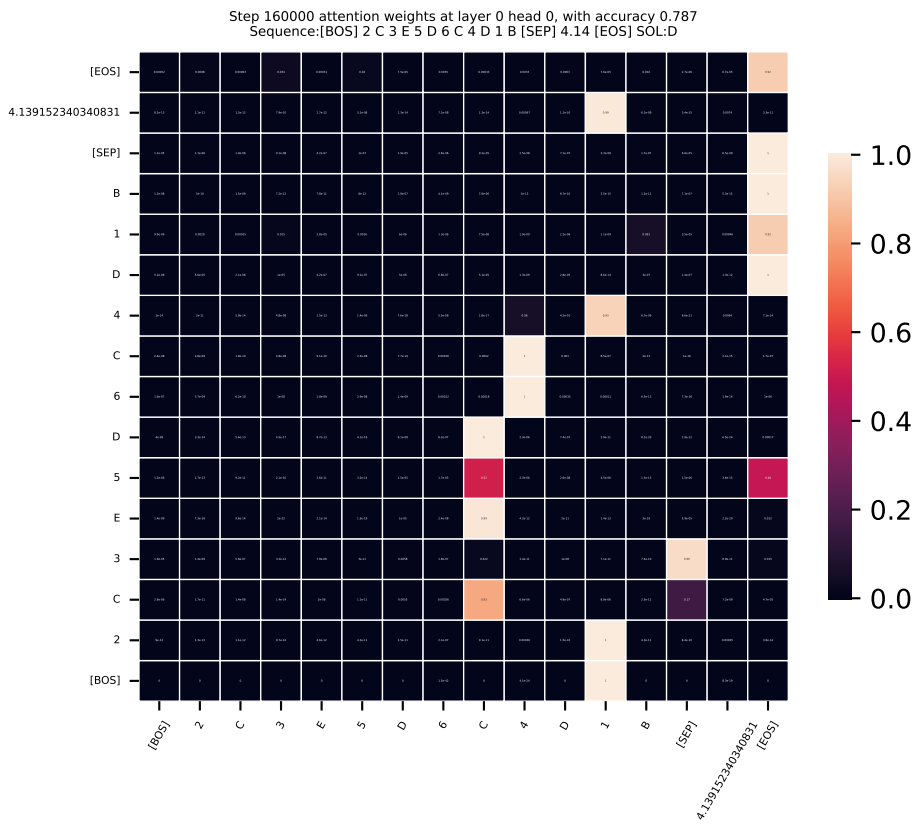
Step 160000 attention weights at layer 0 head 0, with accuracy 0.787
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E
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C
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[BOS]
[BOS]
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3
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5
D
6
C
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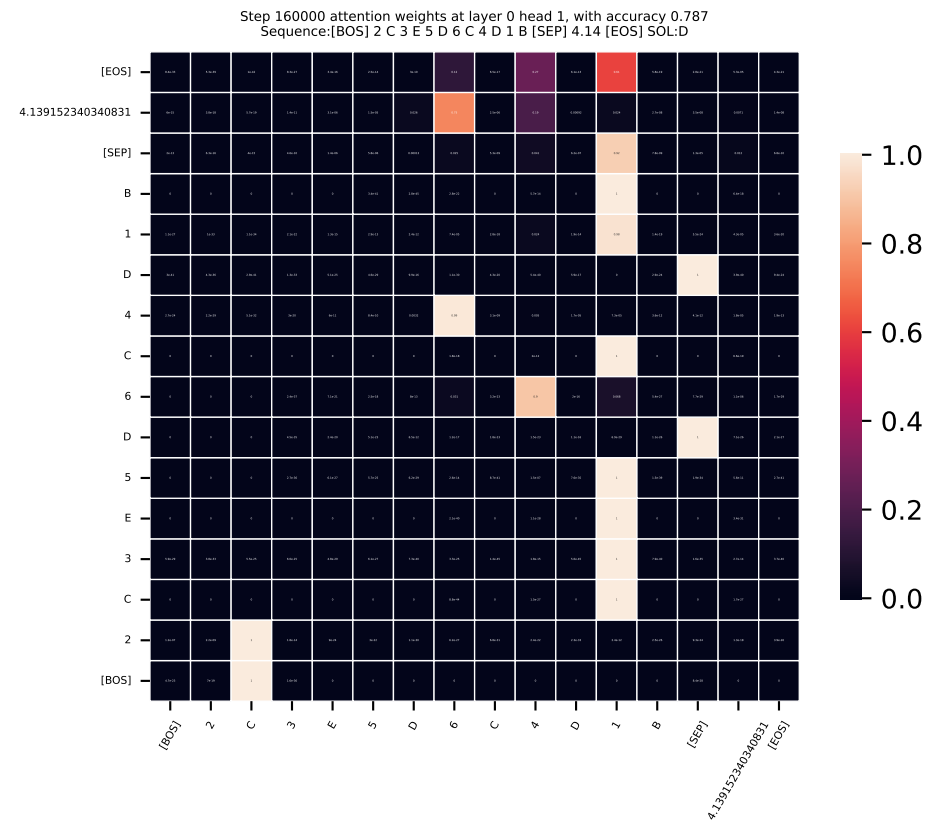
Step 160000 attention weights at layer 0 head 1, with accuracy 0.787
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C
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E
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C
2
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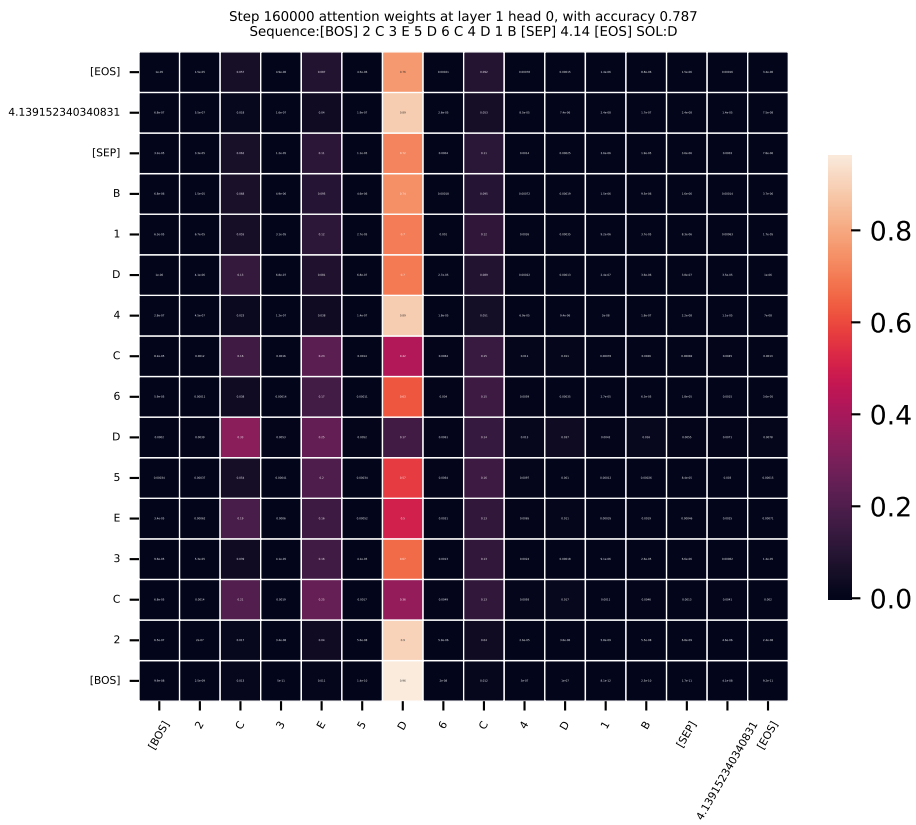
Step 160000 attention weights at layer 1 head 0, with accuracy 0.787
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3
C
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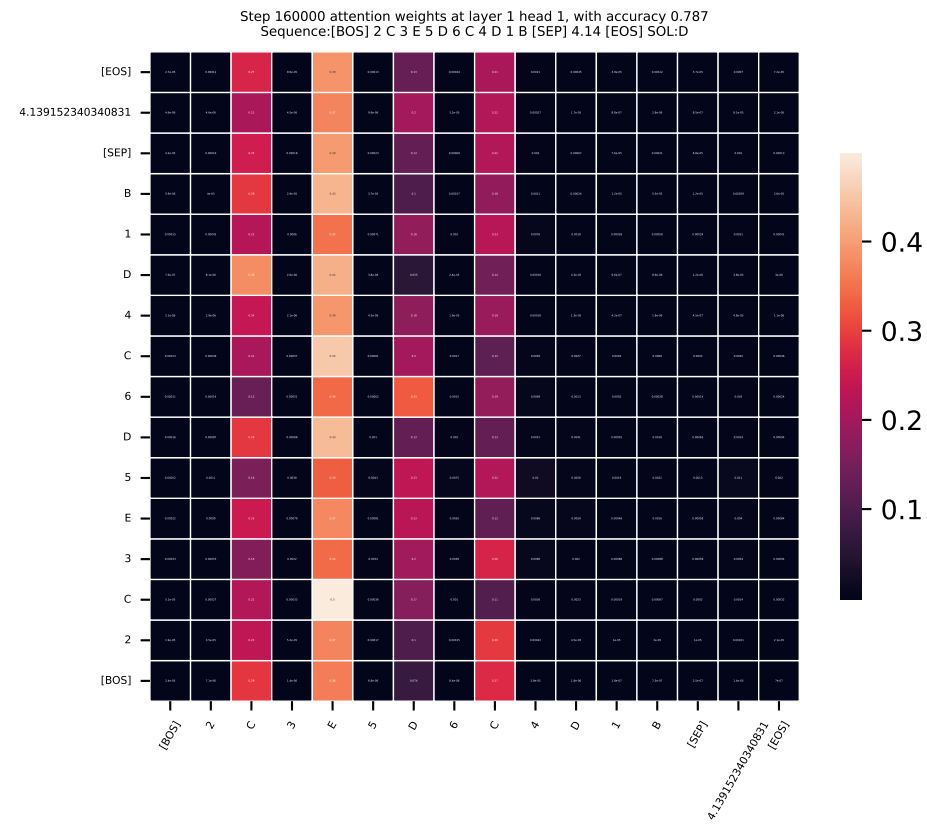
Step 160000 attention weights at layer 1 head 1, with accuracy 0.787
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E
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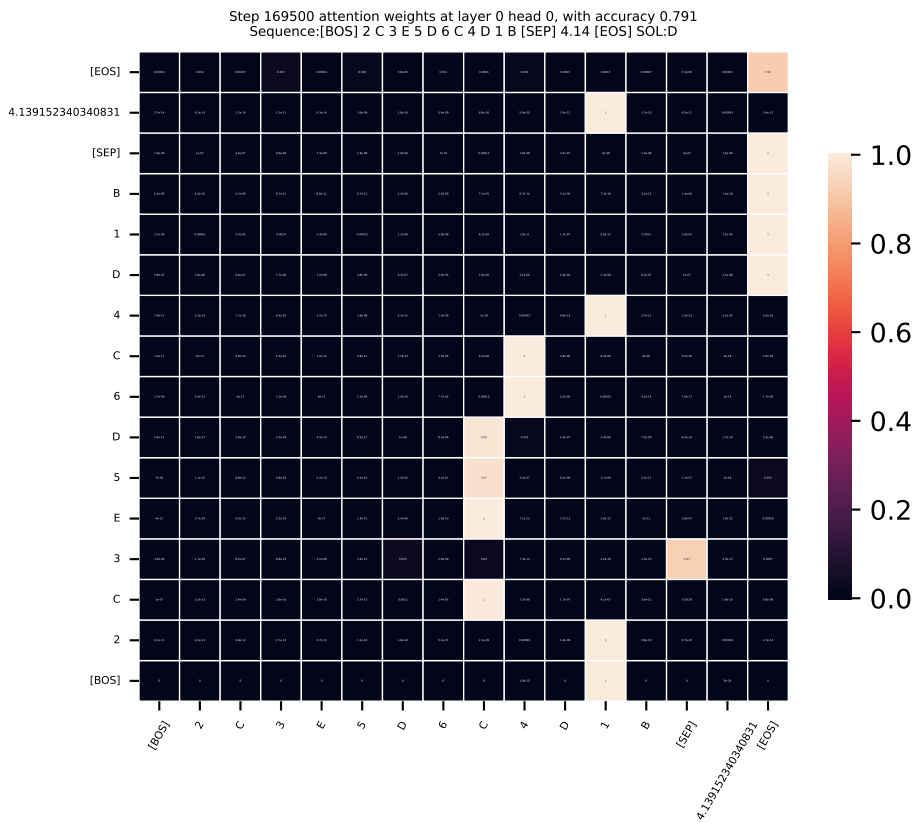
Step 169500 attention weights at layer 0 head 0, with accuracy 0.791
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E
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C
2
[BOS]
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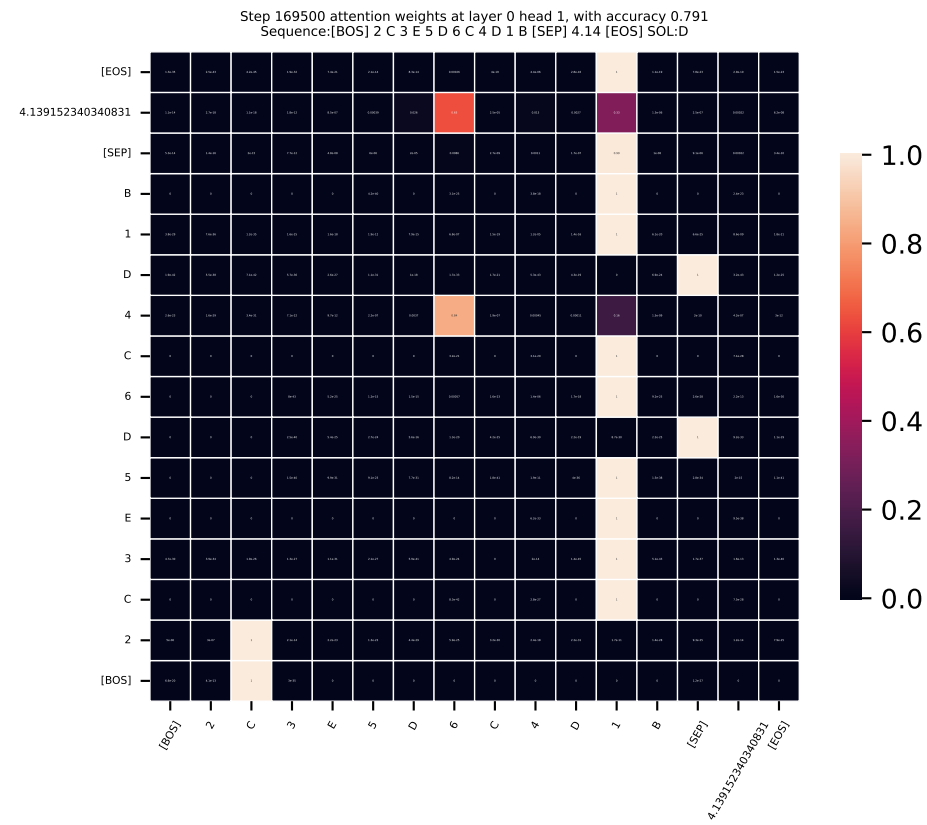
Step 169500 attention weights at layer 0 head 1, with accuracy 0.791
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C
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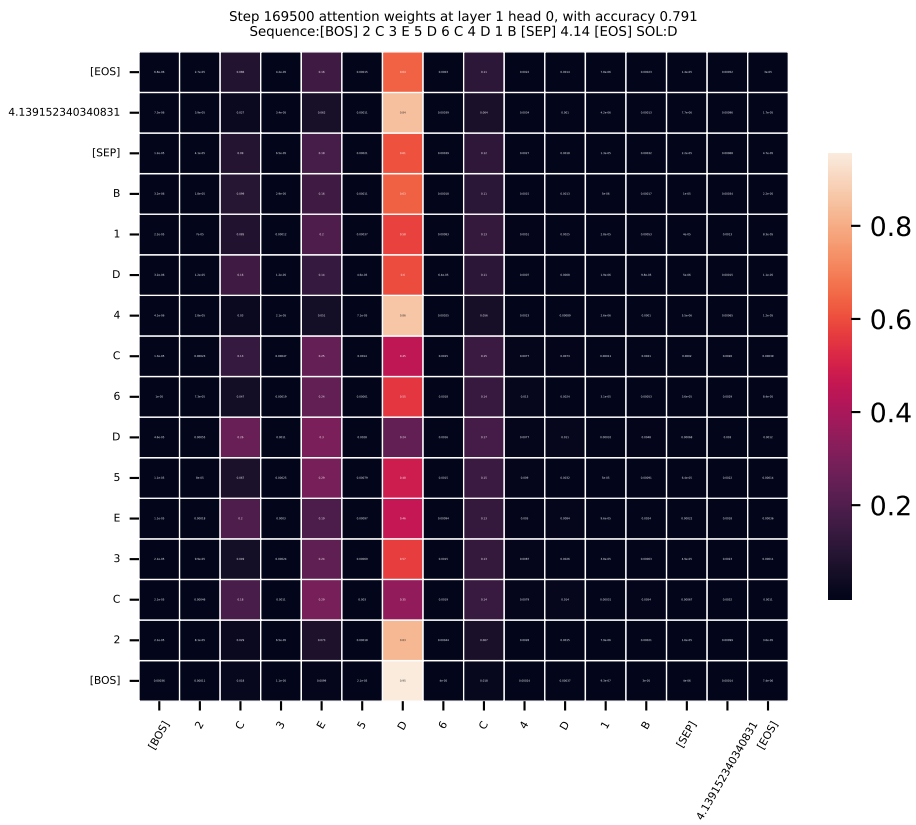
Step 169500 attention weights at layer 1 head 0, with accuracy 0.791
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E
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C
2
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D
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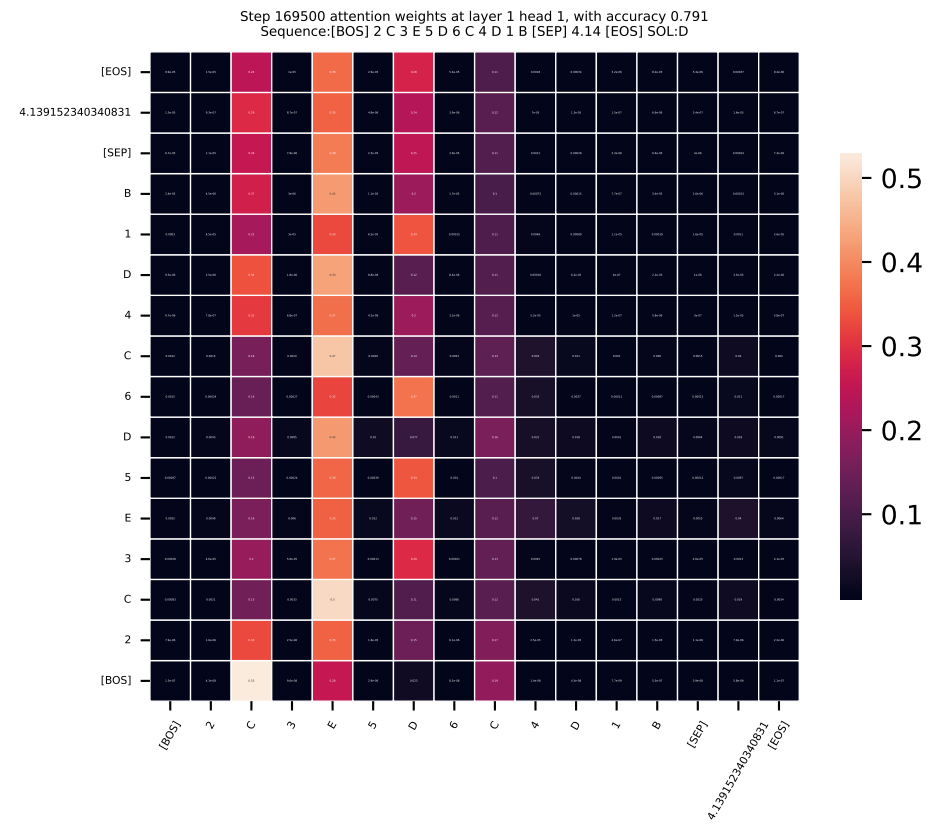
Step 169500 attention weights at layer 1 head 1, with accuracy 0.791
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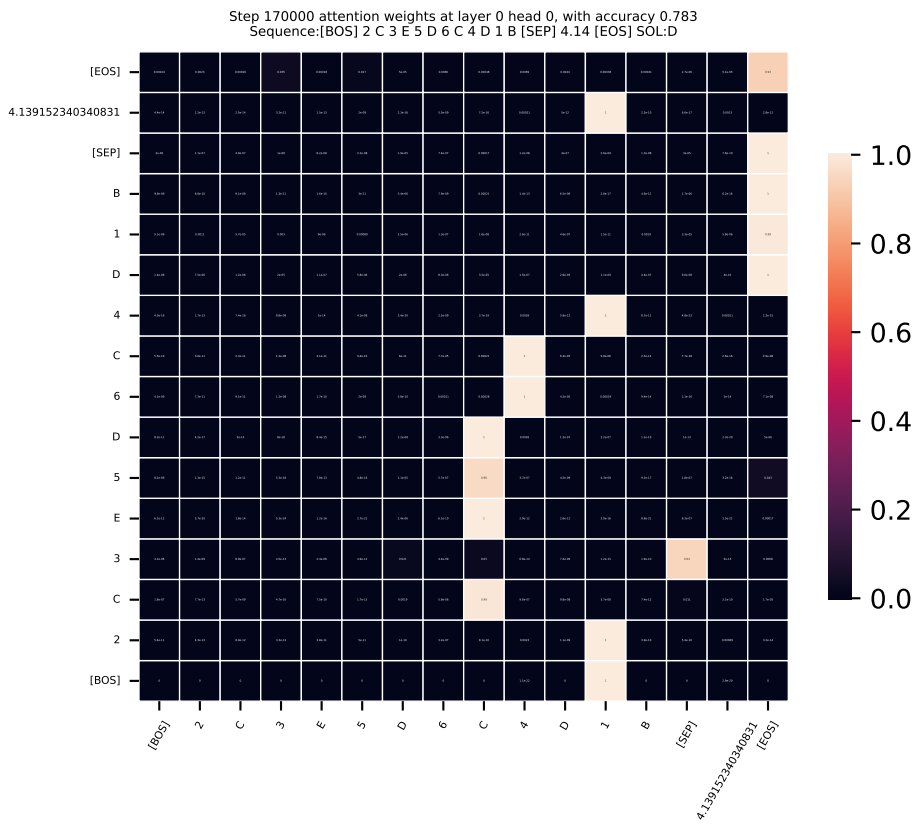
Step 170000 attention weights at layer 0 head 0, with accuracy 0.783
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[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
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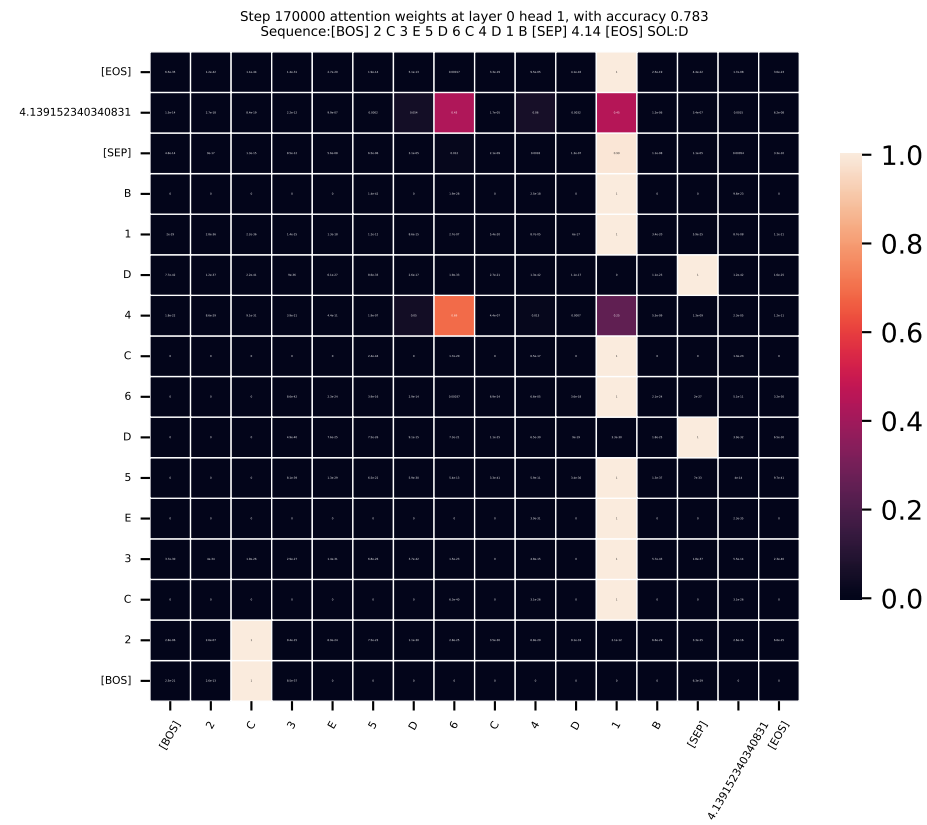
Step 170000 attention weights at layer 0 head 1, with accuracy 0.783
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[SEP]
B
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C
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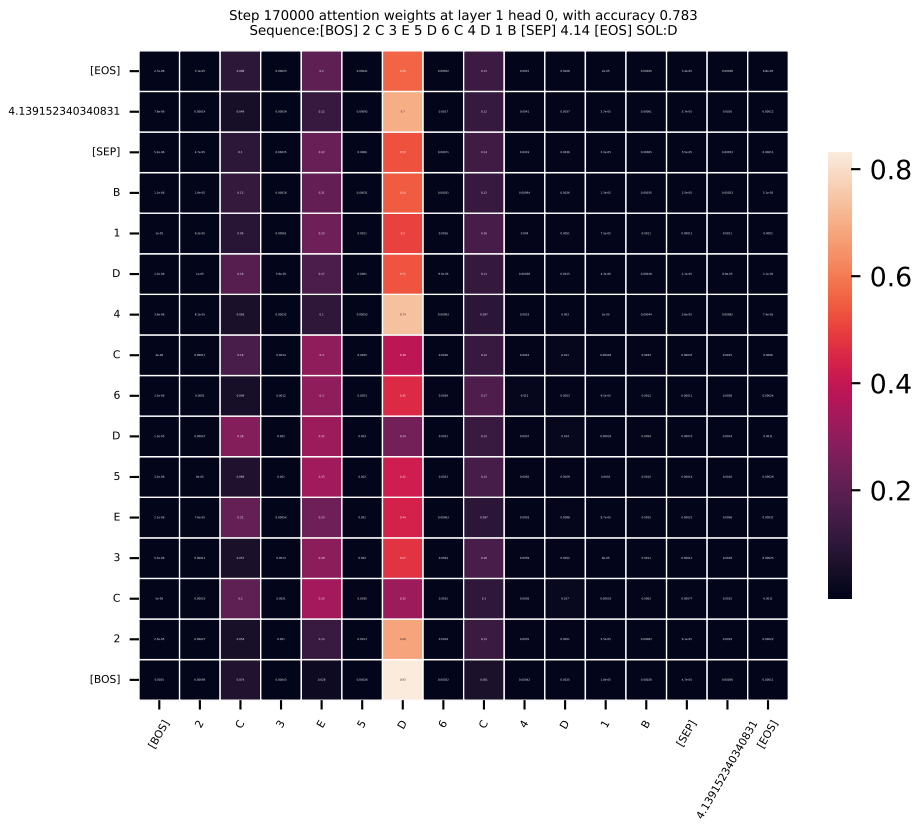
Step 170000 attention weights at layer 1 head 0, with accuracy 0.783
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E
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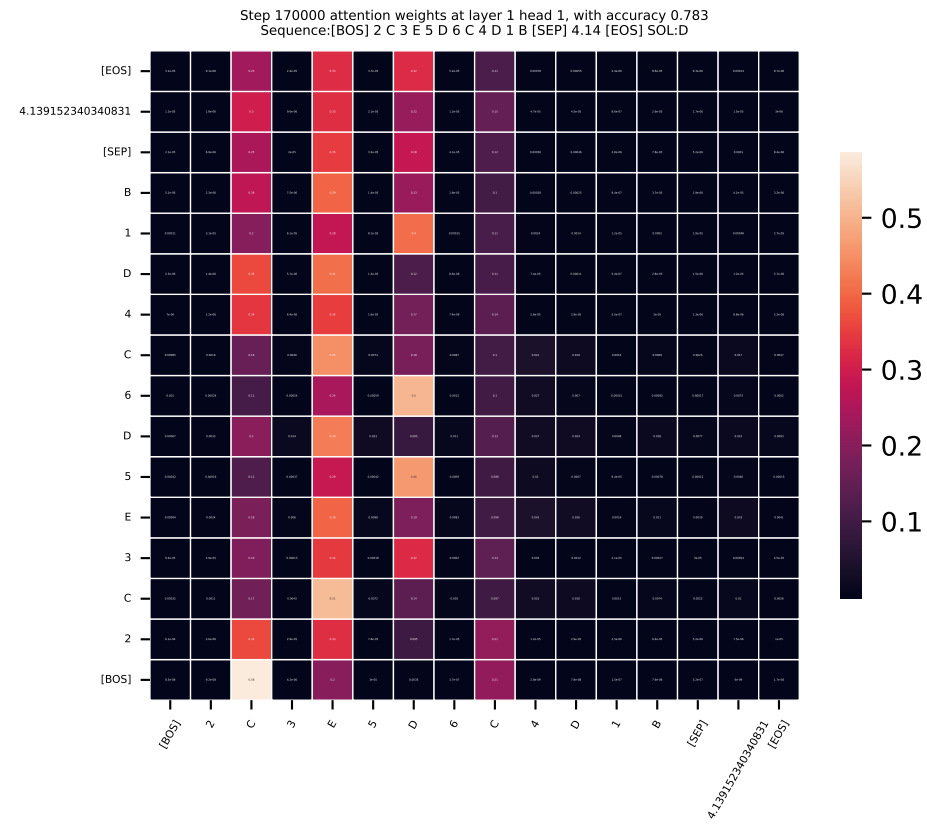
Step 170000 attention weights at layer 1 head 1, with accuracy 0.783
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[SEP]
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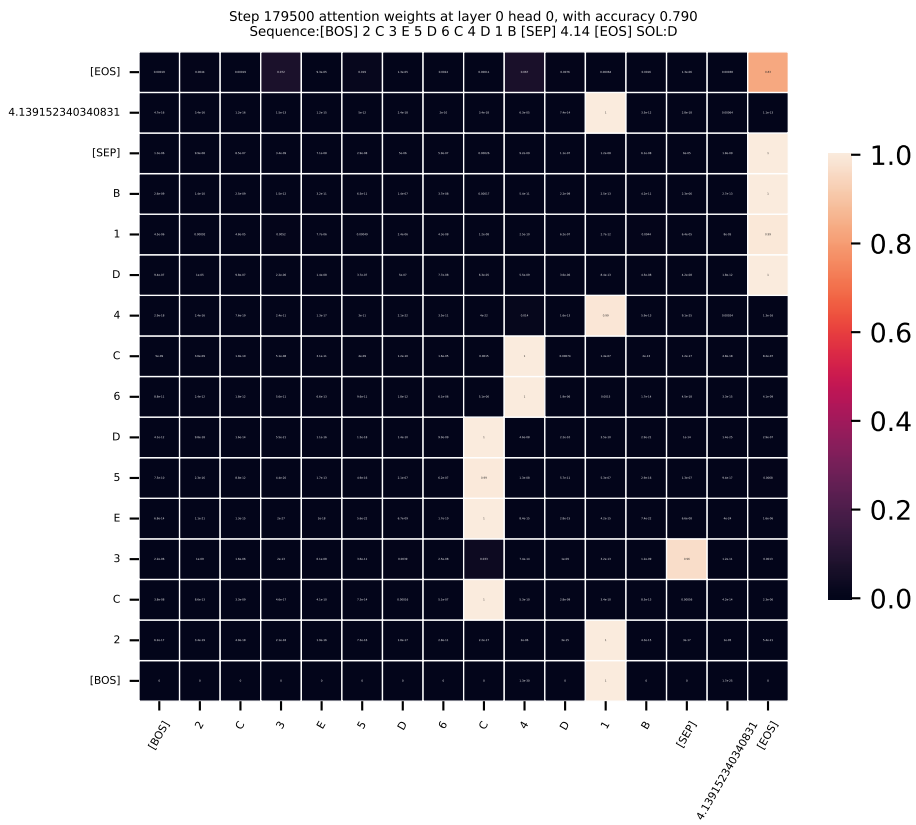
Step 179500 attention weights at layer 0 head 0, with accuracy 0.790
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[SEP]
B
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C
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[BOS]
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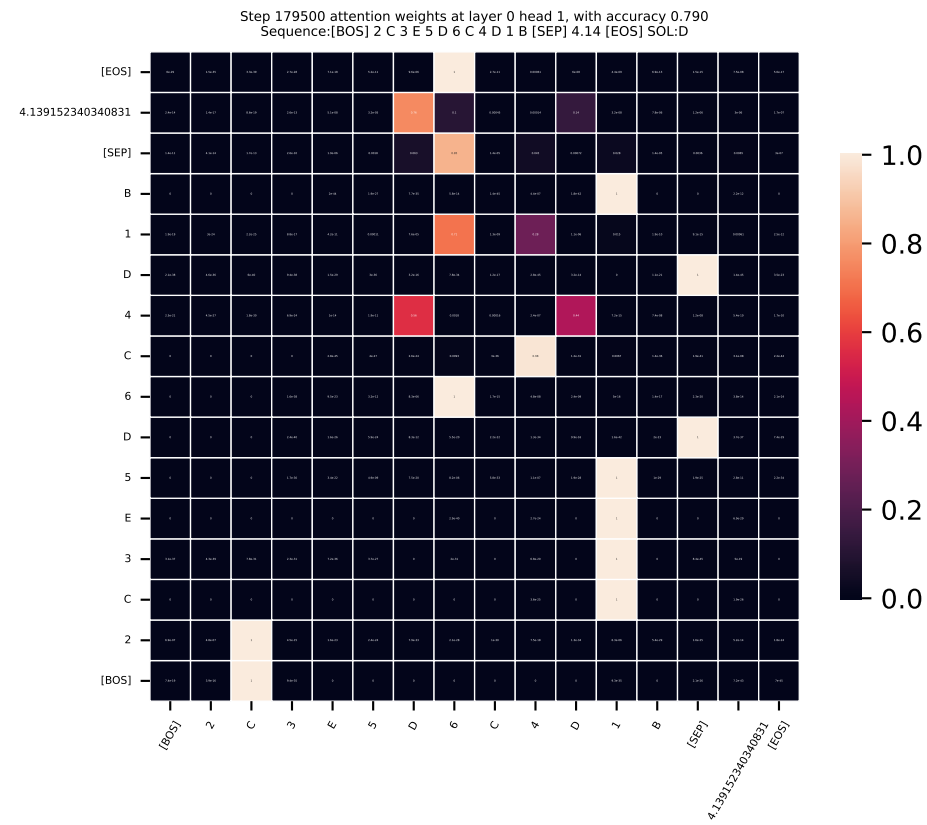
Step 179500 attention weights at layer 0 head 1, with accuracy 0.790
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[EOS]
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[SEP]
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[BOS]
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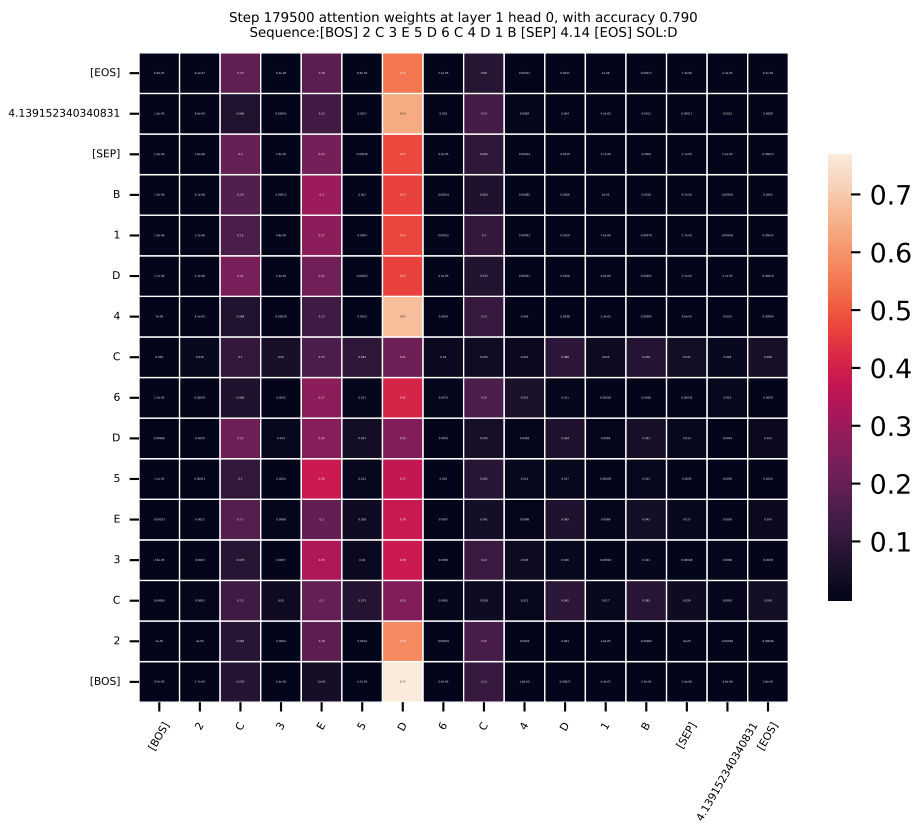
Step 179500 attention weights at layer 1 head 0, with accuracy 0.790
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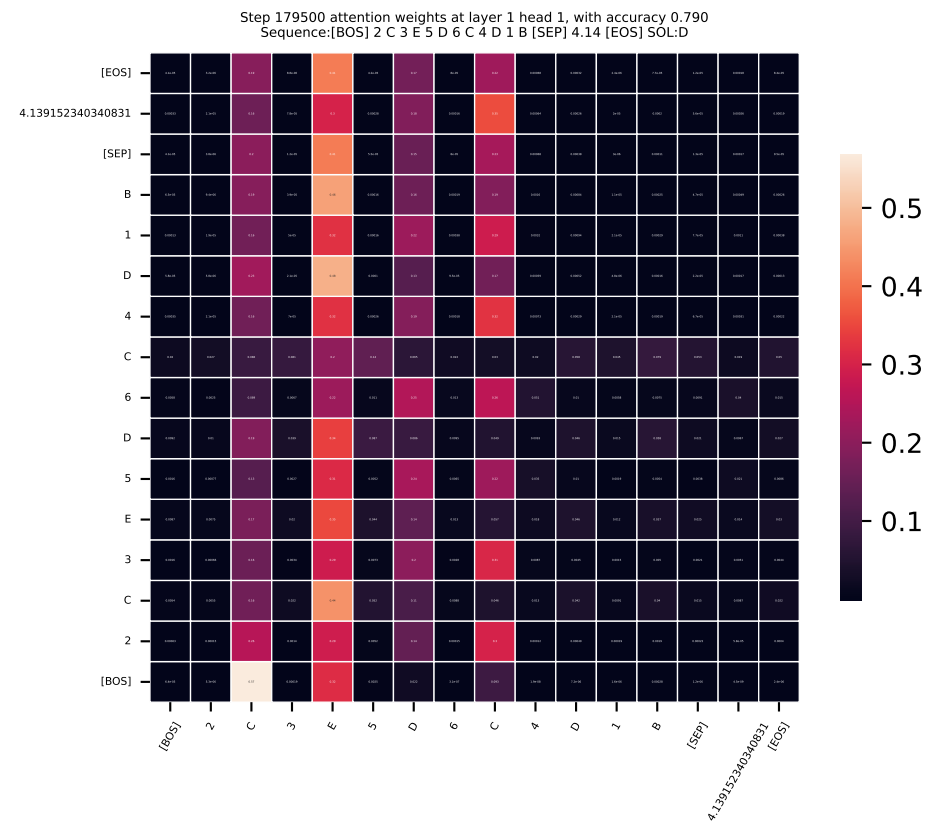
Step 179500 attention weights at layer 1 head 1, with accuracy 0.790
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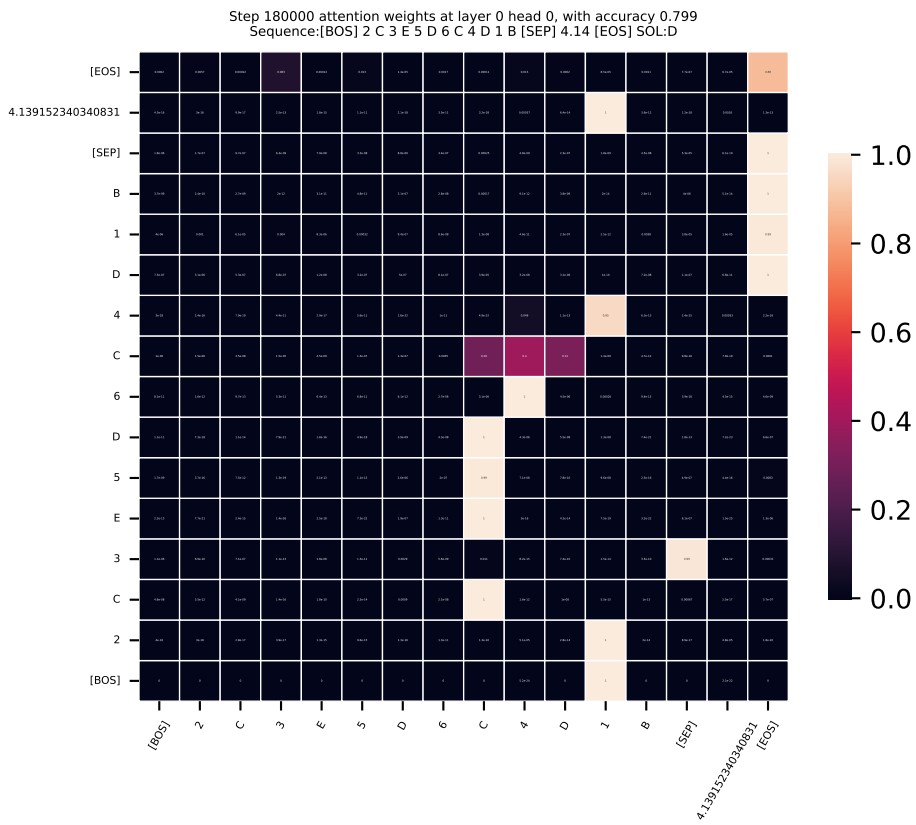
Step 180000 attention weights at layer 0 head 0, with accuracy 0.799
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D
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C
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D
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E
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C
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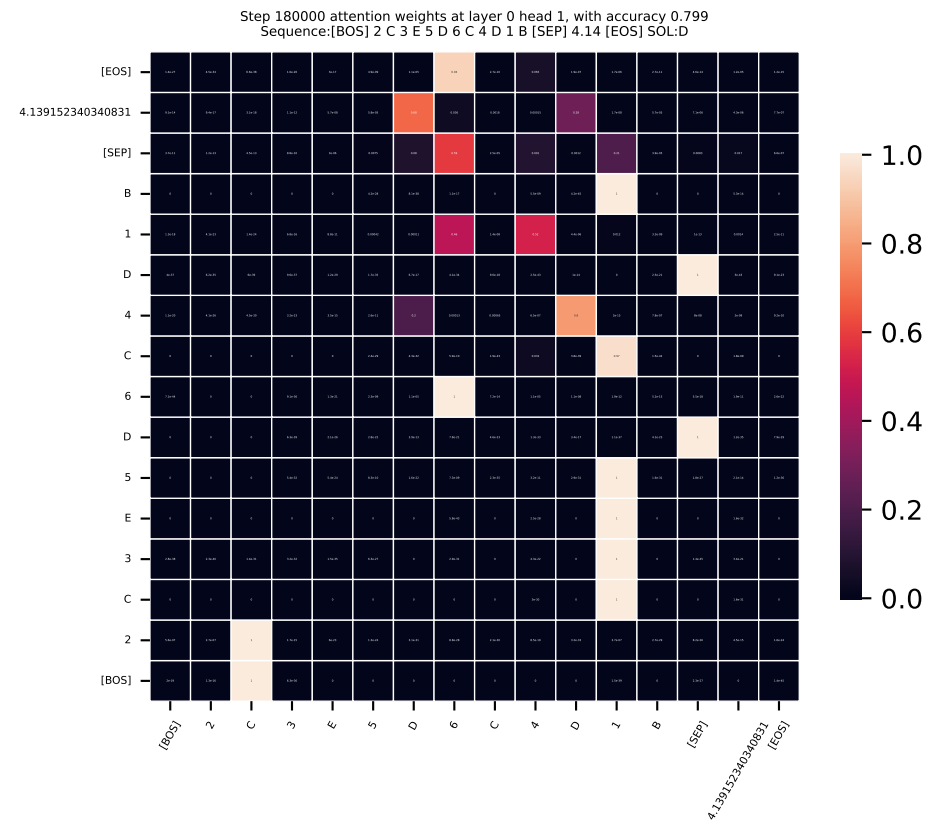
Step 180000 attention weights at layer 0 head 1, with accuracy 0.799
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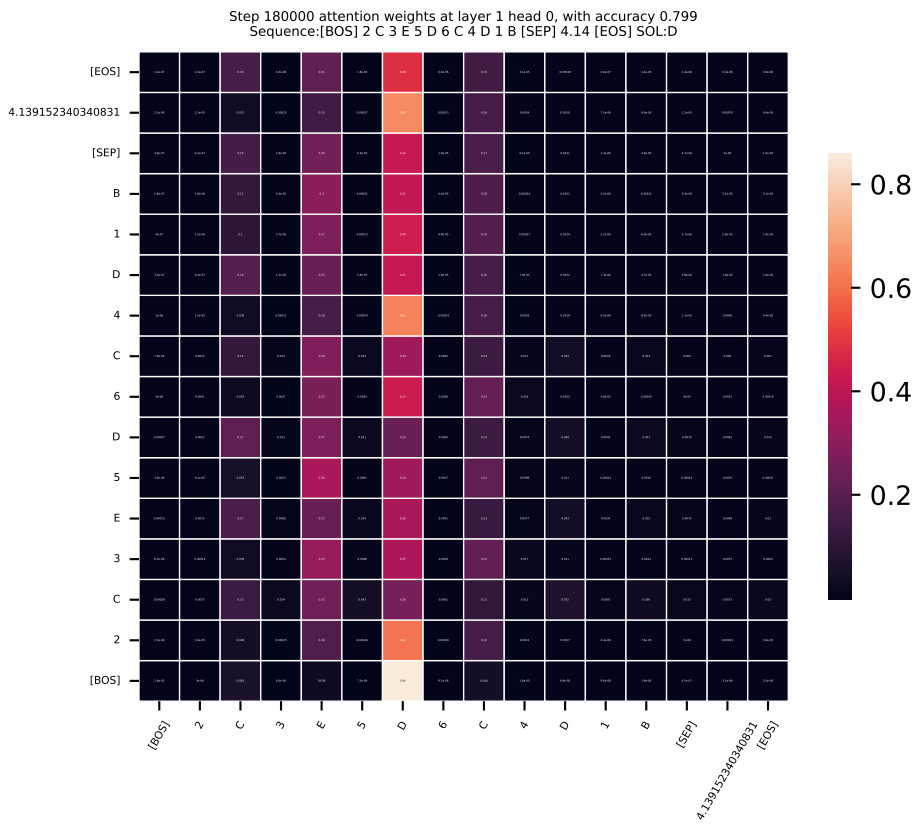
Step 180000 attention weights at layer 1 head 0, with accuracy 0.799
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS]
2
C
3
E
5
D
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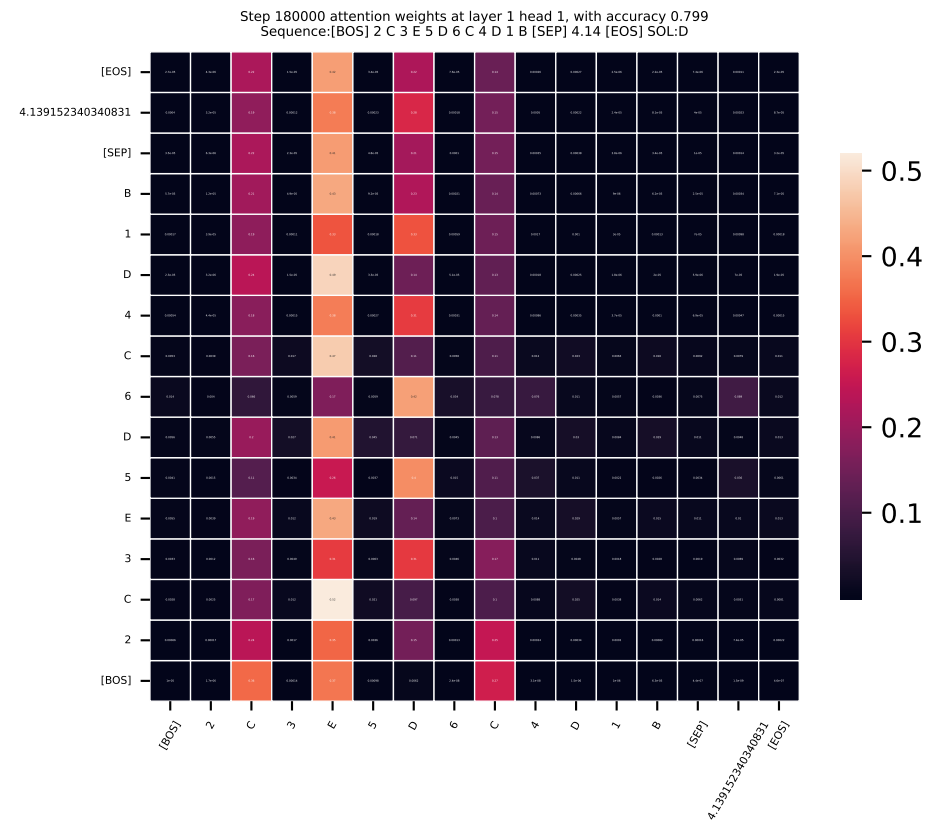
Step 180000 attention weights at layer 1 head 1, with accuracy 0.799
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[SEP]
B
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D
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C
6
D
5
E
3
C
2
[BOS]
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3
E
5
D
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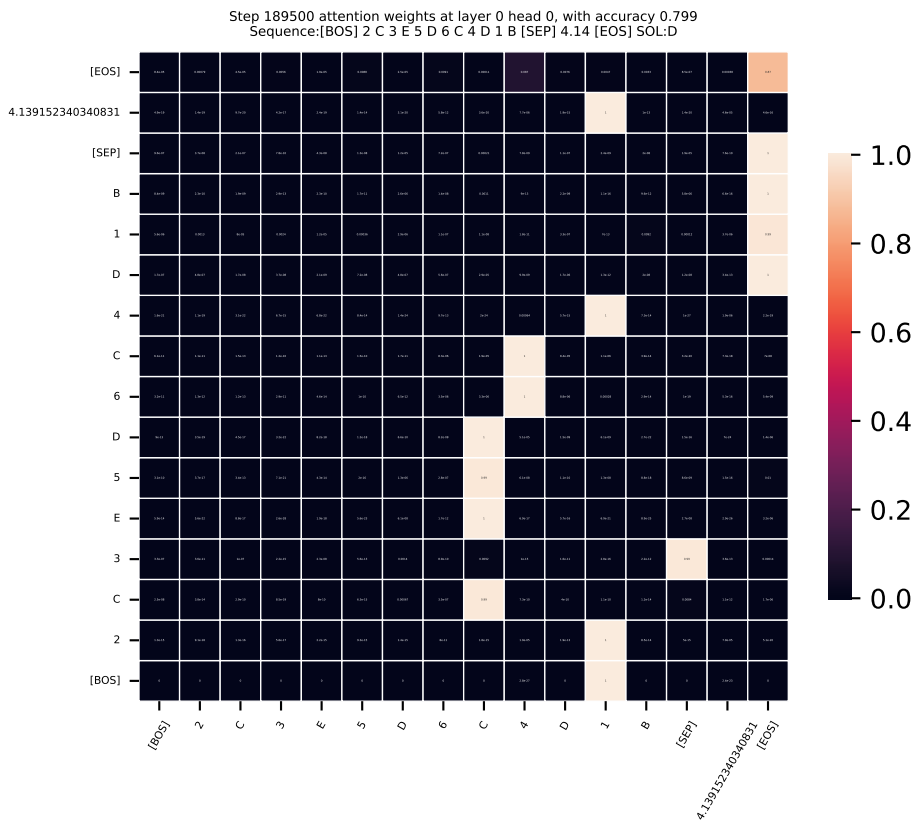
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E
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C
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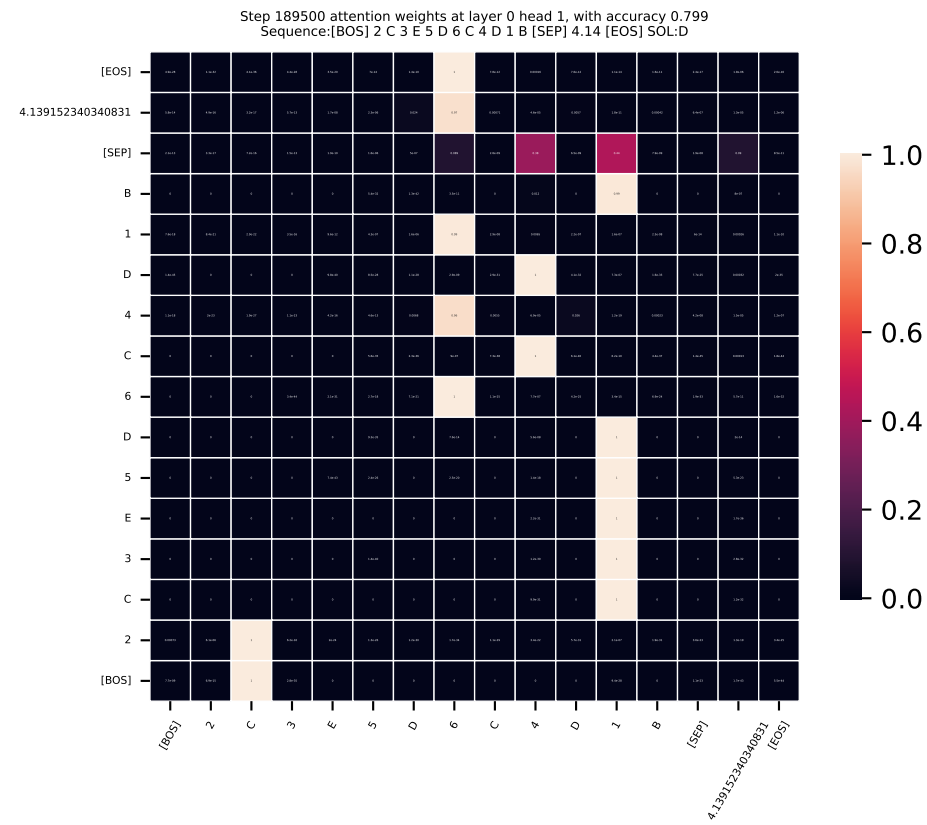
Step 189500 attention weights at layer 0 head 1, with accuracy 0.799
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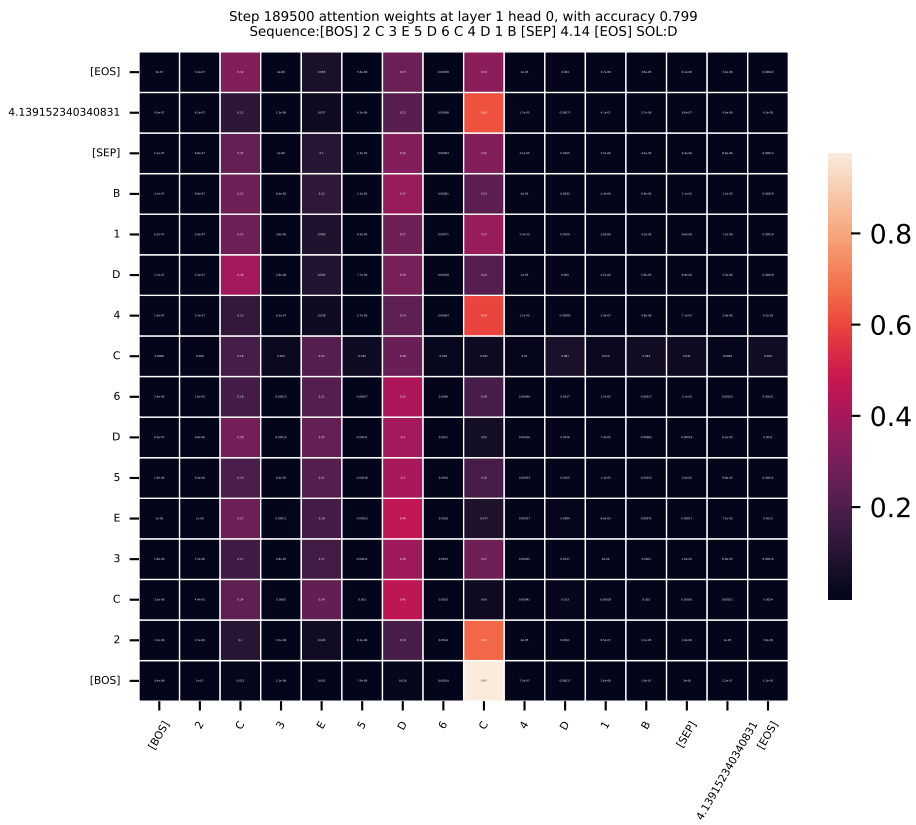
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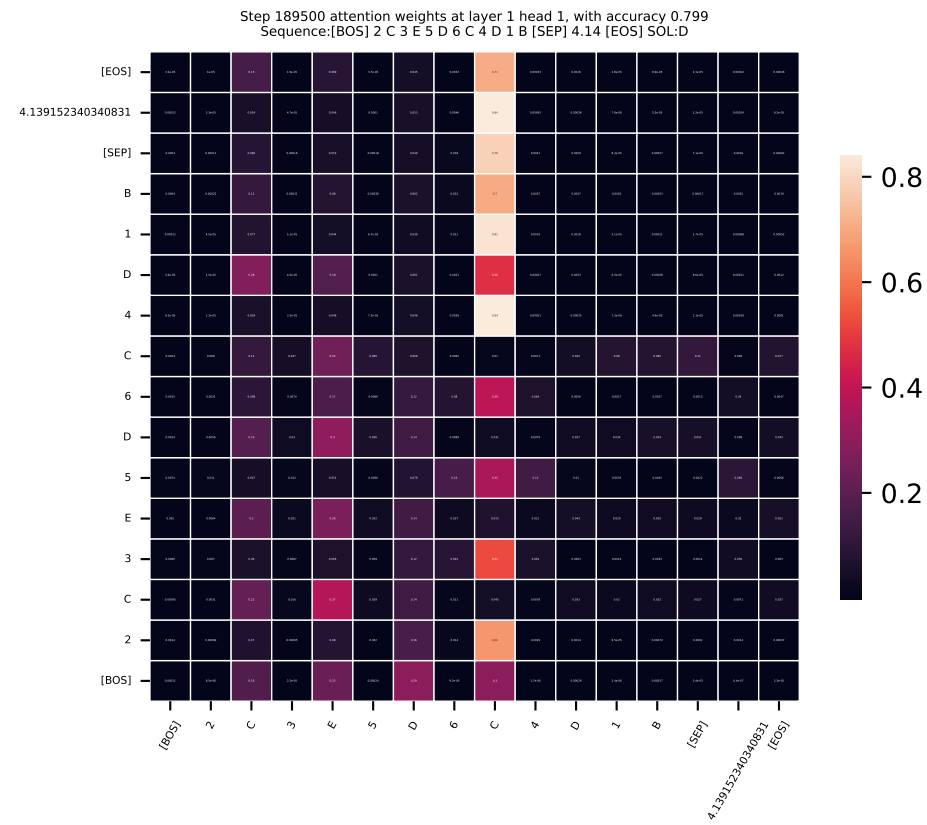
Step 189500 attention weights at layer 1 head 1, with accuracy 0.799
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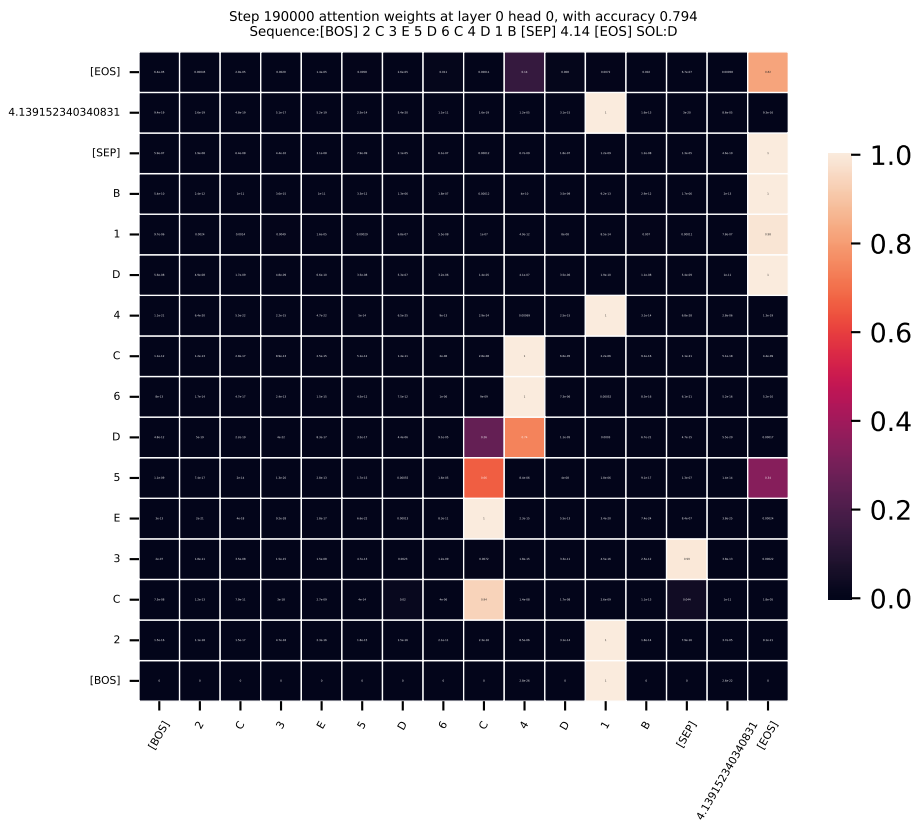
Step 190000 attention weights at layer 0 head 0, with accuracy 0.794
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
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C
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E
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C
2
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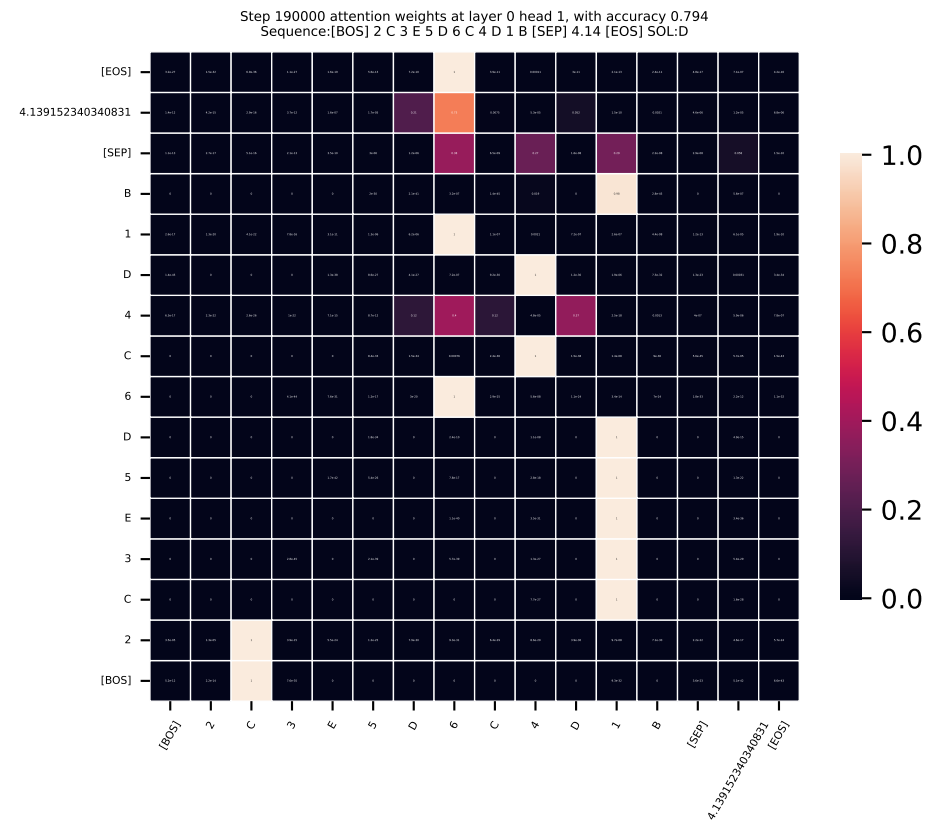
Step 190000 attention weights at layer 0 head 1, with accuracy 0.794
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
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D
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E
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C
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[BOS]
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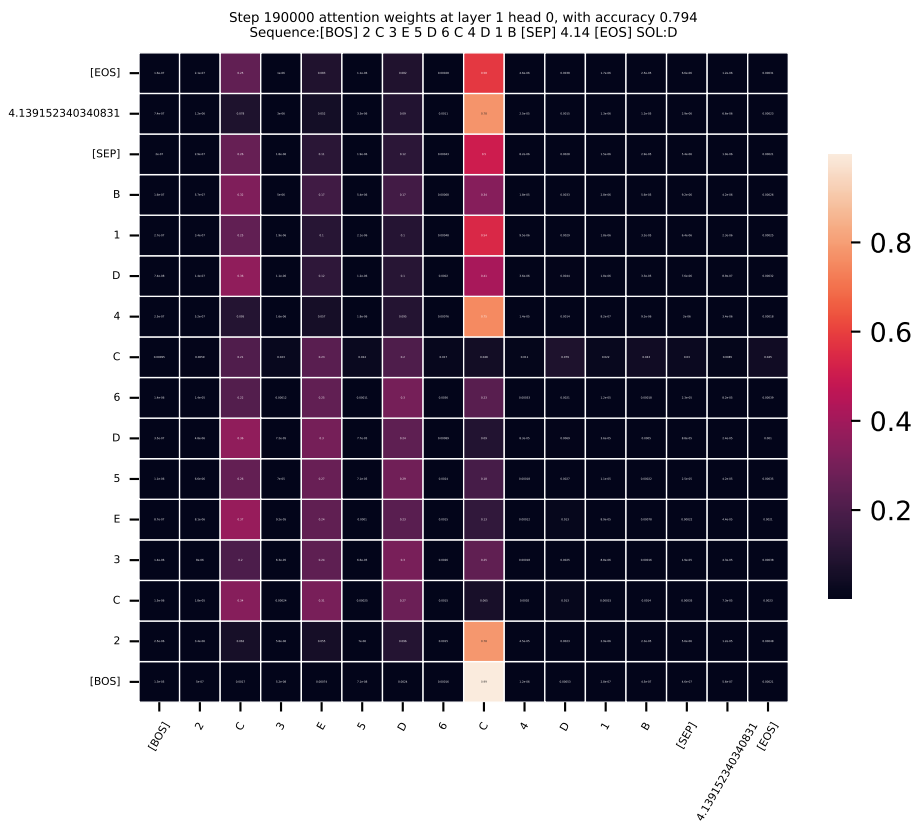
Step 190000 attention weights at layer 1 head 0, with accuracy 0.794
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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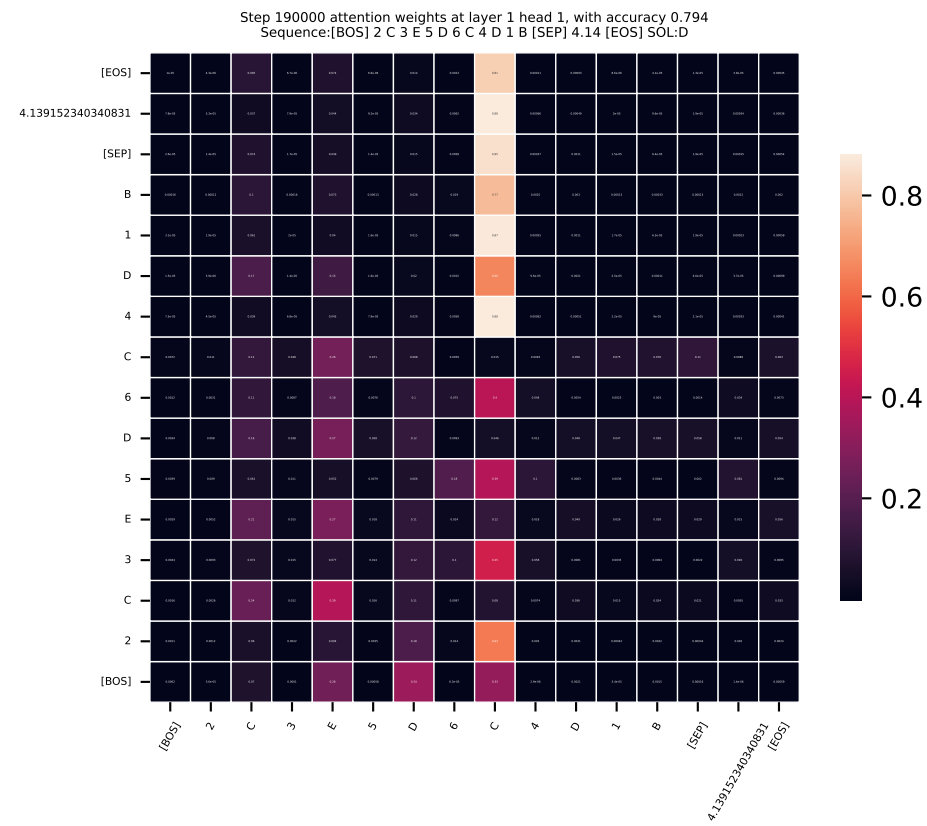
Step 190000 attention weights at layer 1 head 1, with accuracy 0.794
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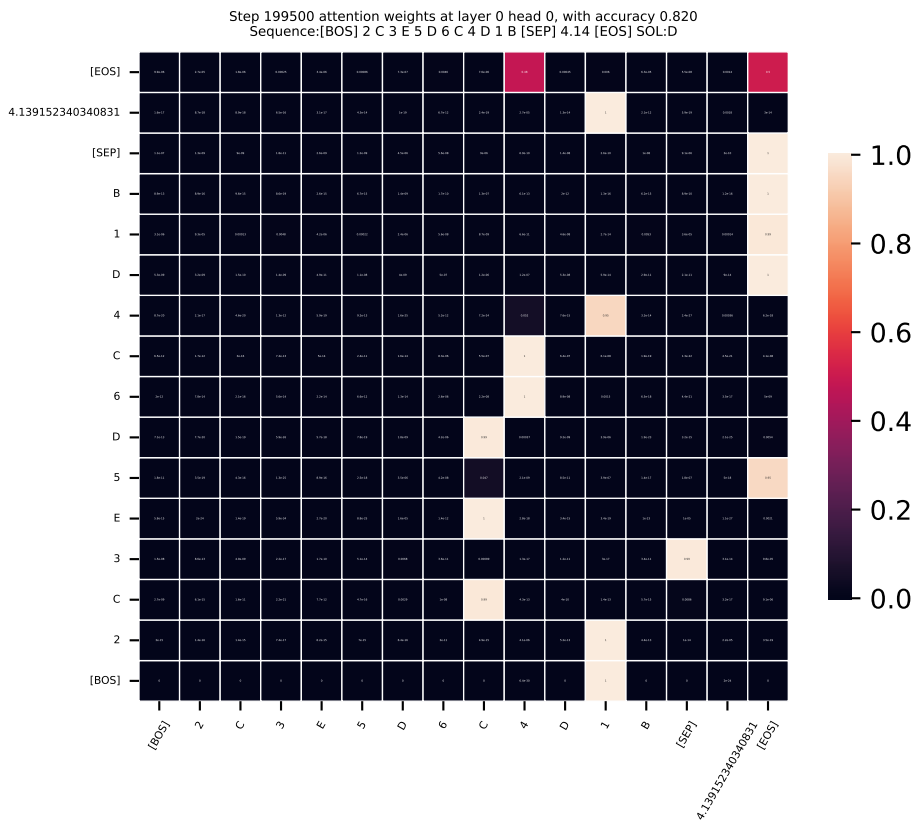
Step 199500 attention weights at layer 0 head 0, with accuracy 0.820
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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[SEP]
B
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E
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C
2
[BOS]
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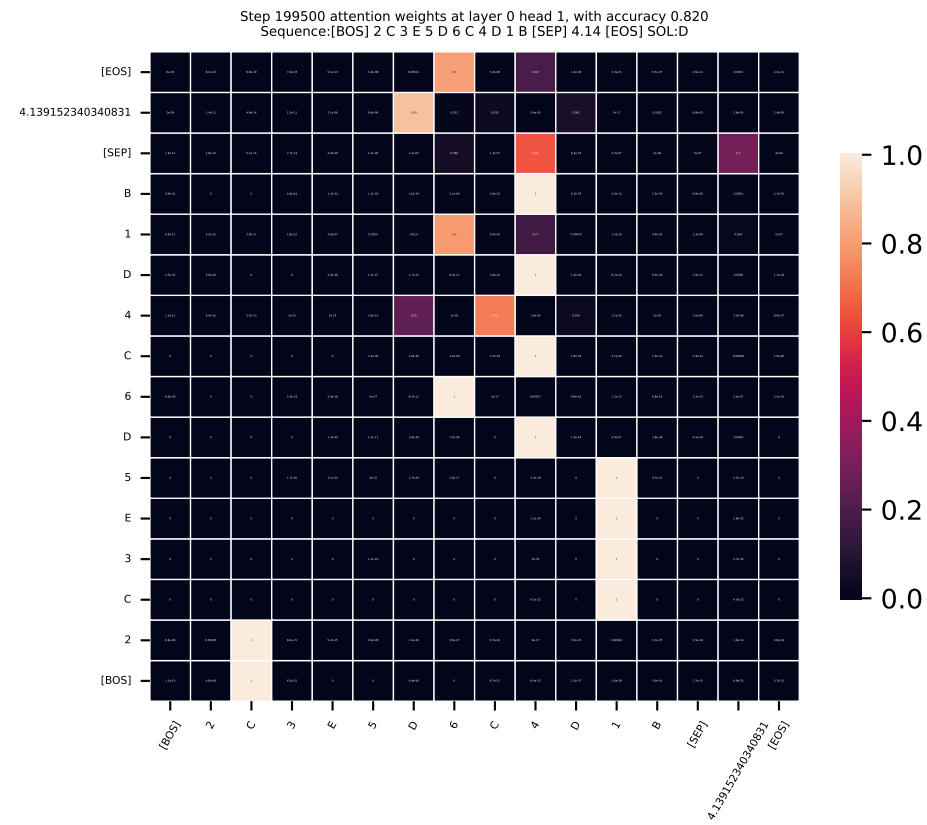
Step 199500 attention weights at layer 0 head 1, with accuracy 0.820
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E
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C
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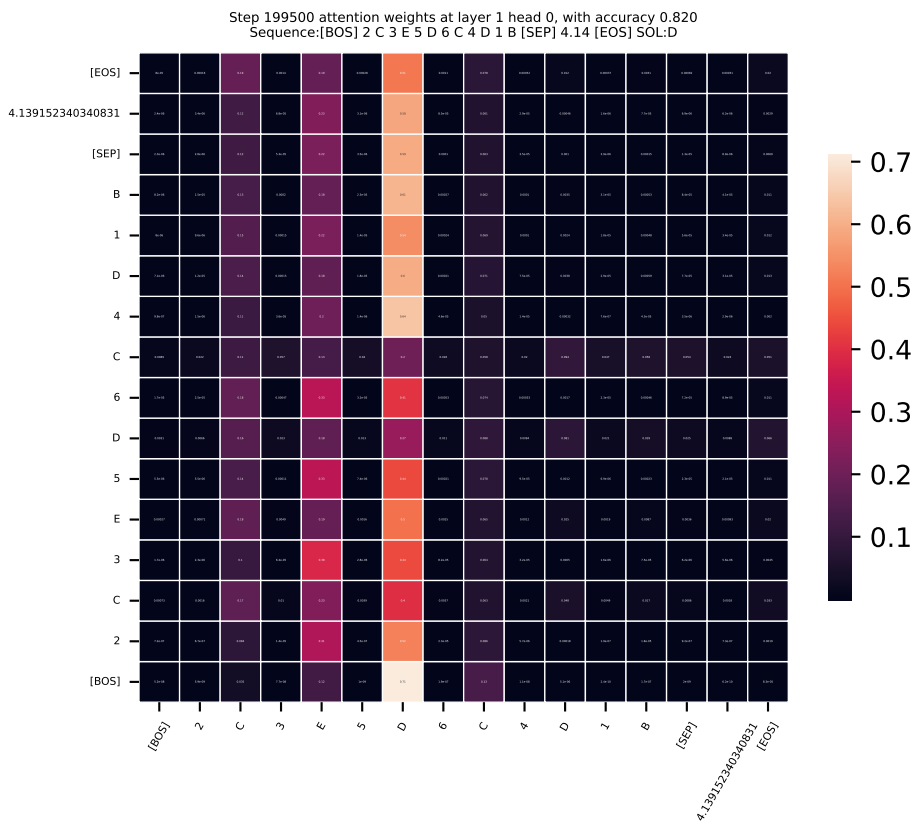
Step 199500 attention weights at layer 1 head 0, with accuracy 0.820
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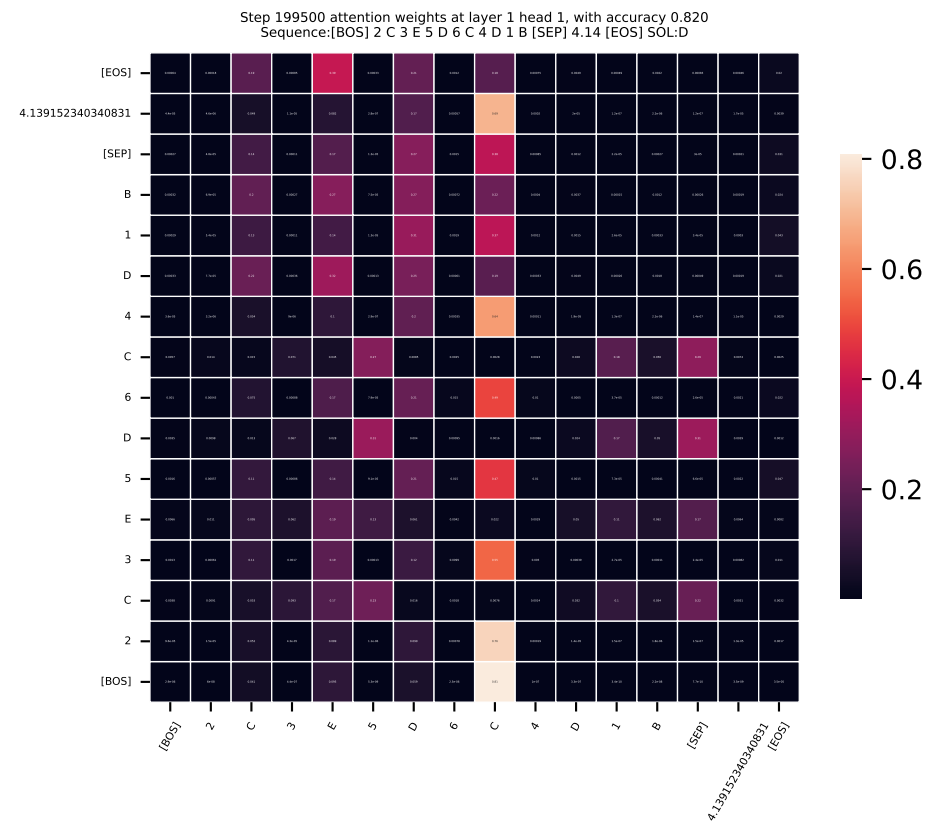
Step 199500 attention weights at layer 1 head 1, with accuracy 0.820
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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C
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D
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C
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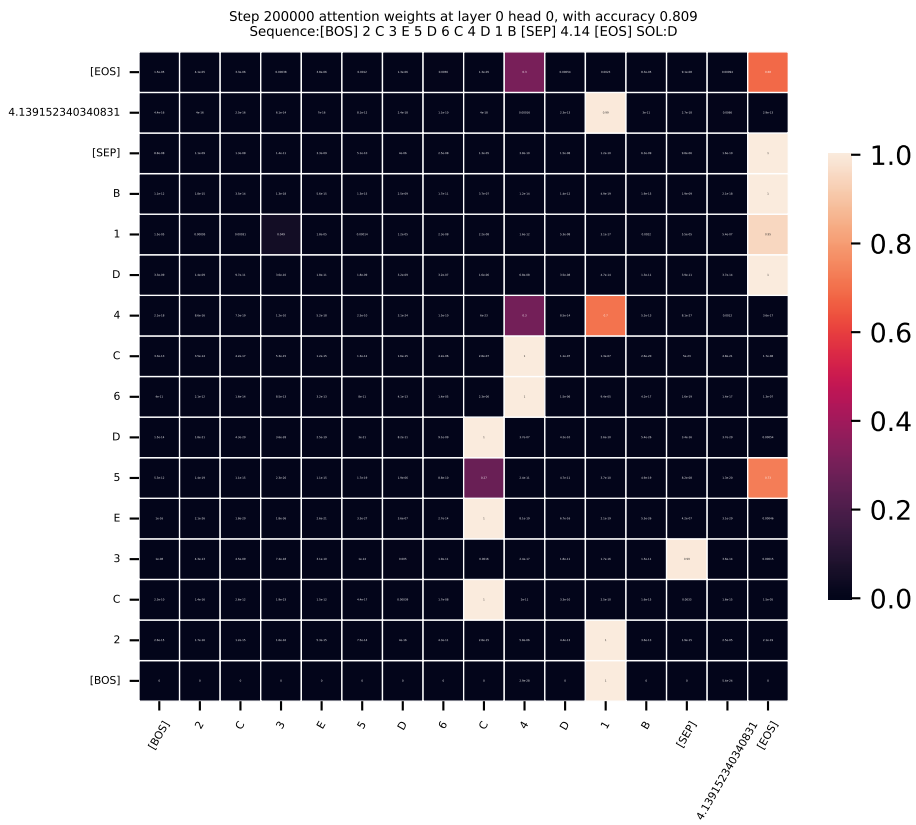
Step 200000 attention weights at layer 0 head 0, with accuracy 0.809
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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C
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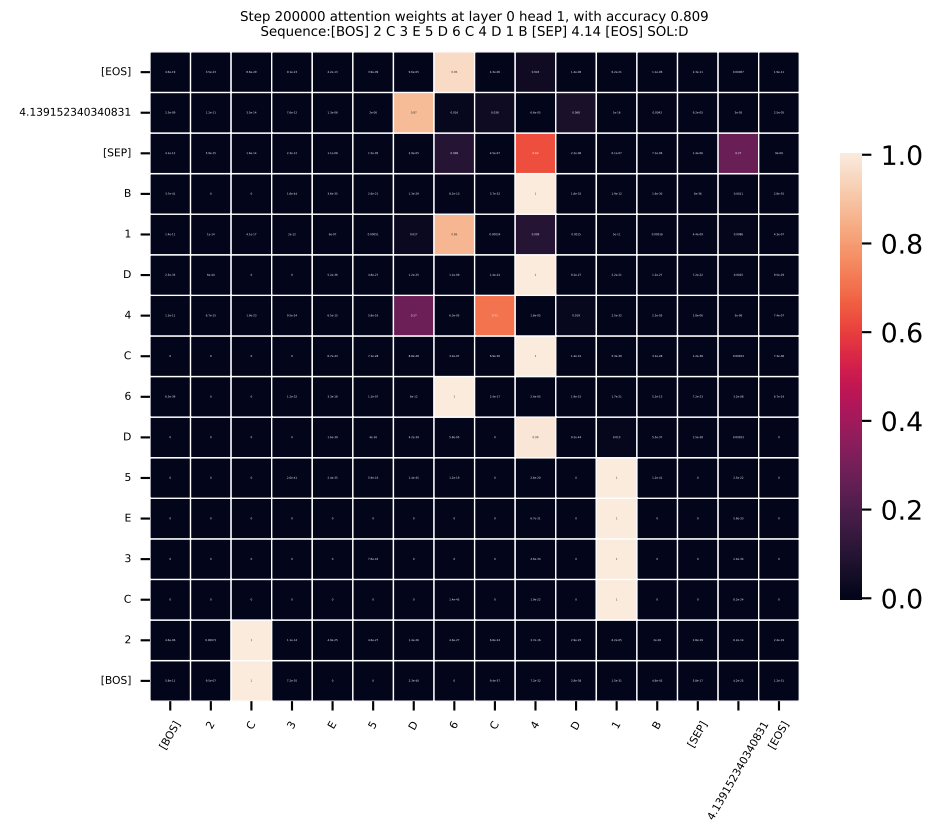
Step 200000 attention weights at layer 0 head 1, with accuracy 0.809
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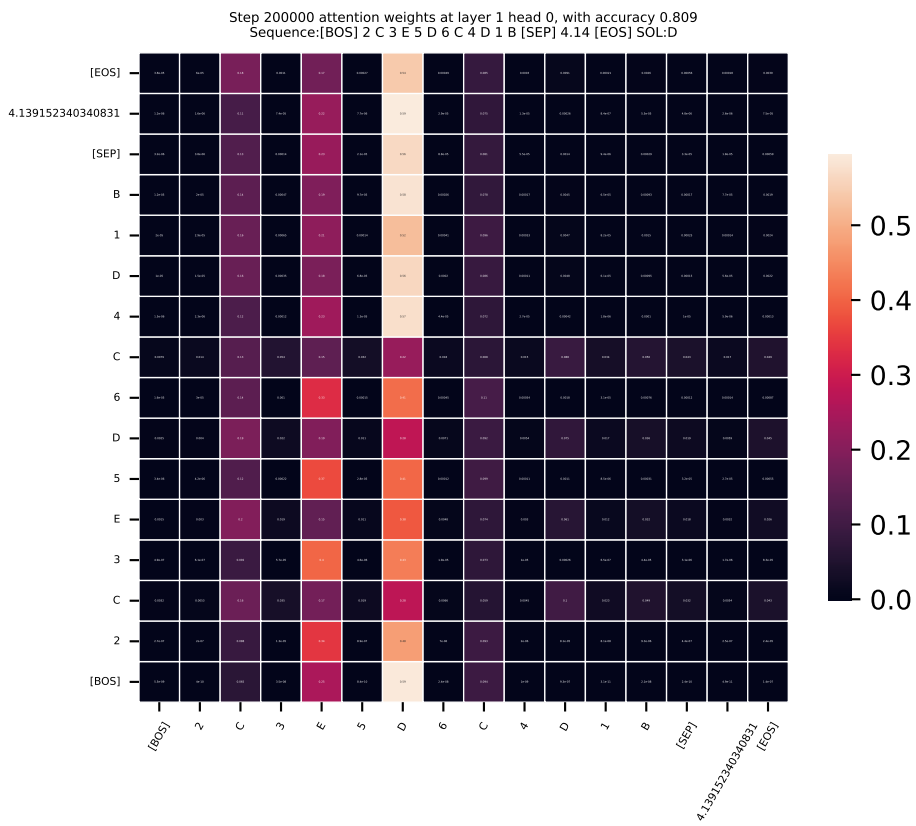
Step 200000 attention weights at layer 1 head 0, with accuracy 0.809
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E
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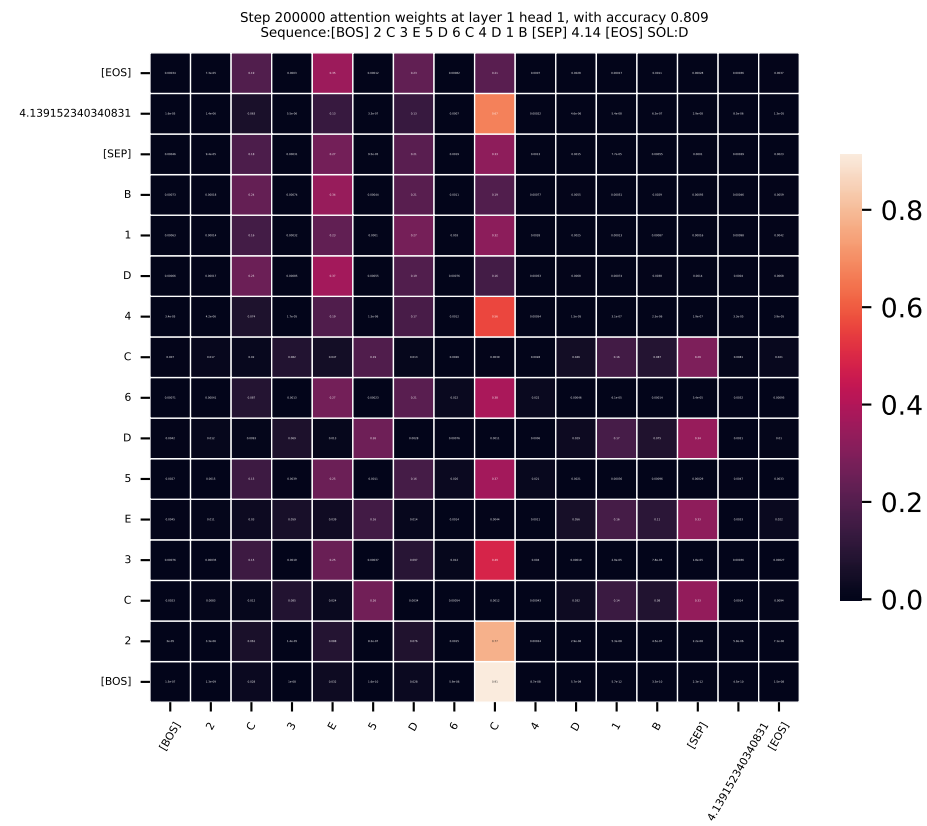
Step 200000 attention weights at layer 1 head 1, with accuracy 0.809
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C
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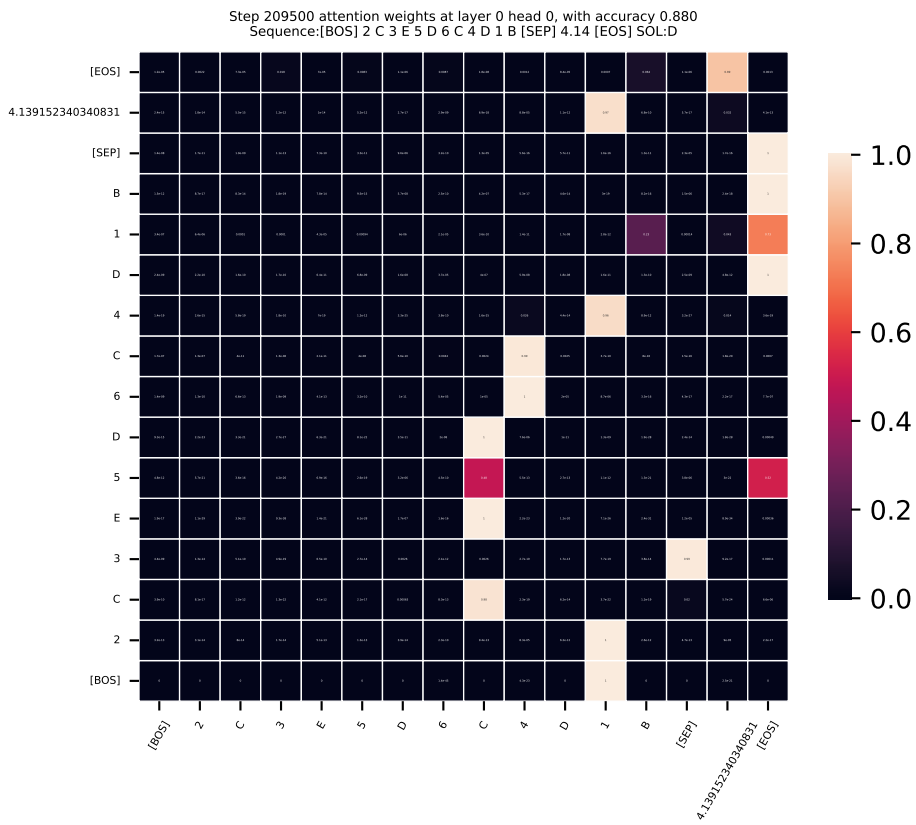
Step 209500 attention weights at layer 0 head 0, with accuracy 0.880
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[BOS]
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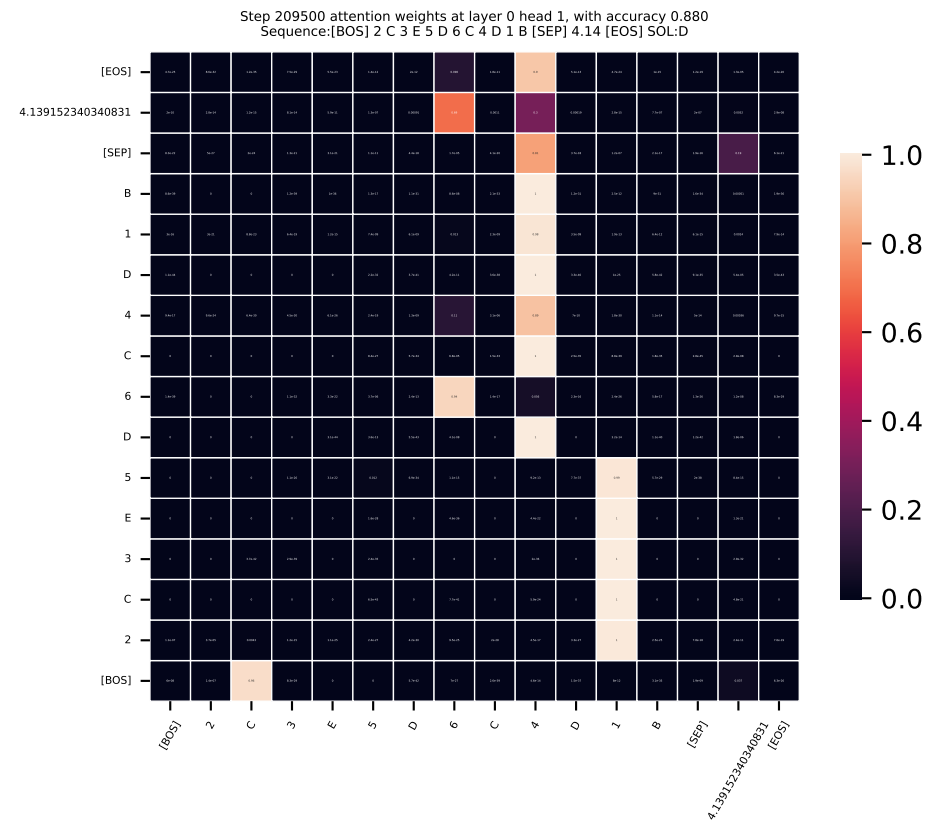
Step 209500 attention weights at layer 0 head 1, with accuracy 0.880
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[BOS]
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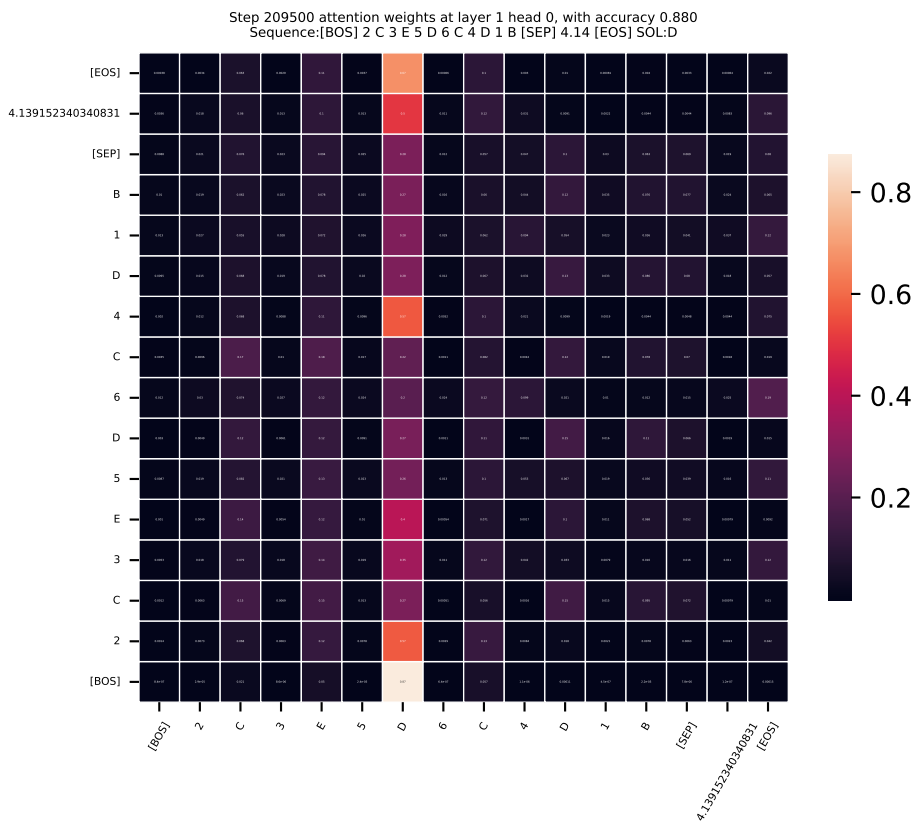
Step 209500 attention weights at layer 1 head 0, with accuracy 0.880
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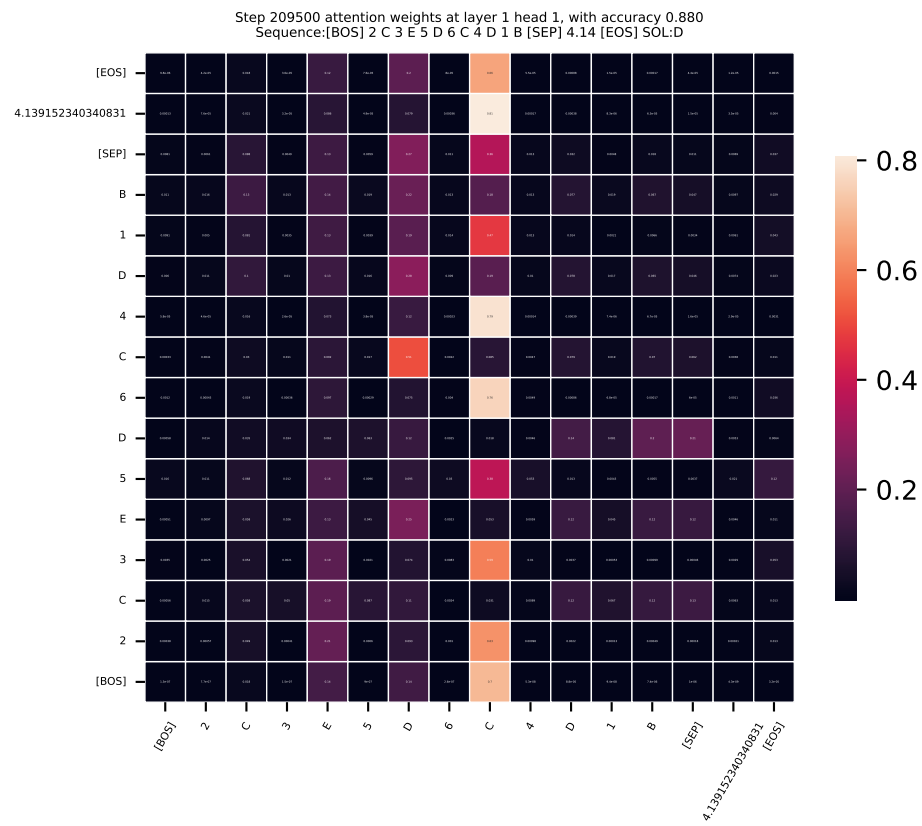
Step 209500 attention weights at layer 1 head 1, with accuracy 0.880
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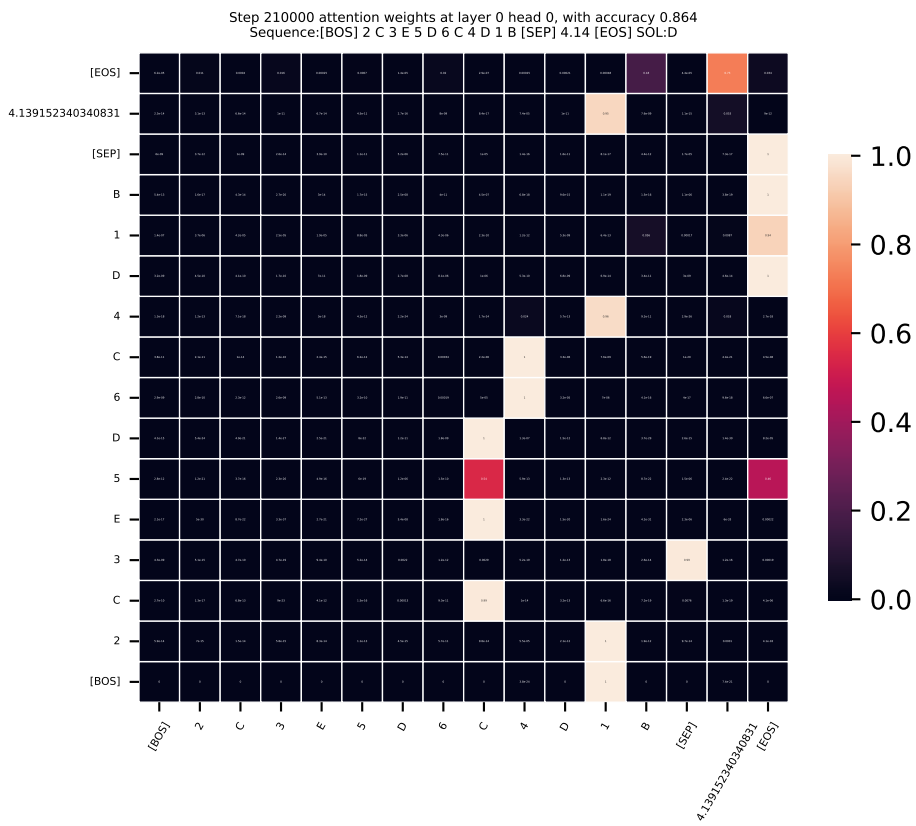
Step 210000 attention weights at layer 0 head 0, with accuracy 0.864
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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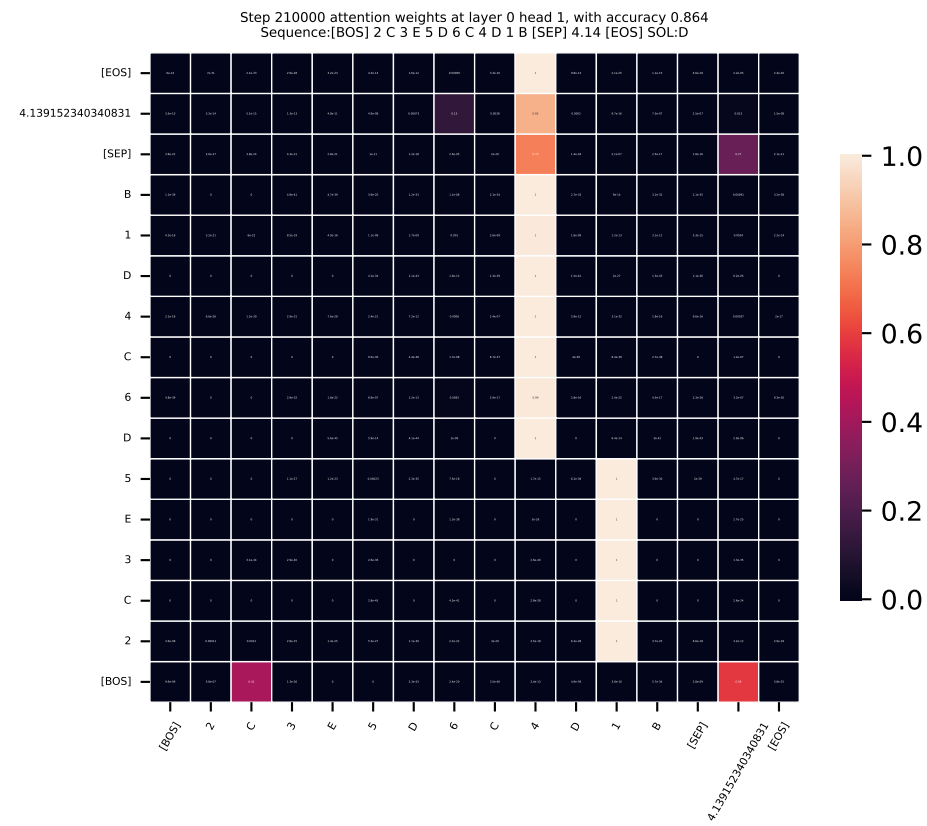
Step 210000 attention weights at layer 0 head 1, with accuracy 0.864
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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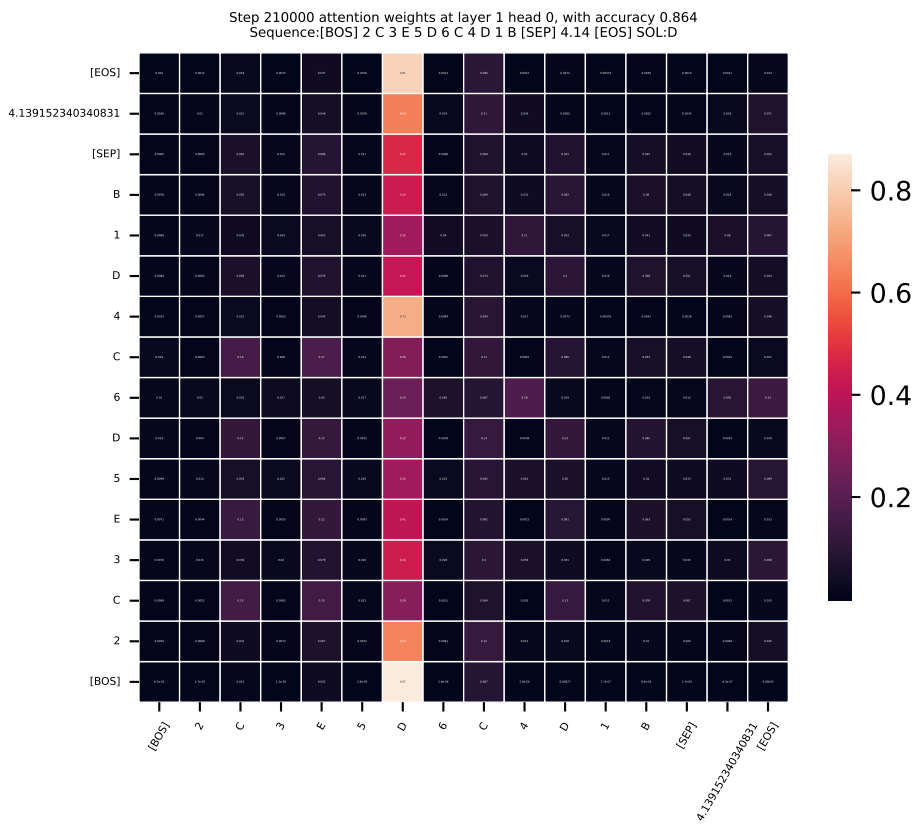
Step 210000 attention weights at layer 1 head 0, with accuracy 0.864
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[SEP]
B
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C
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D
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E
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2
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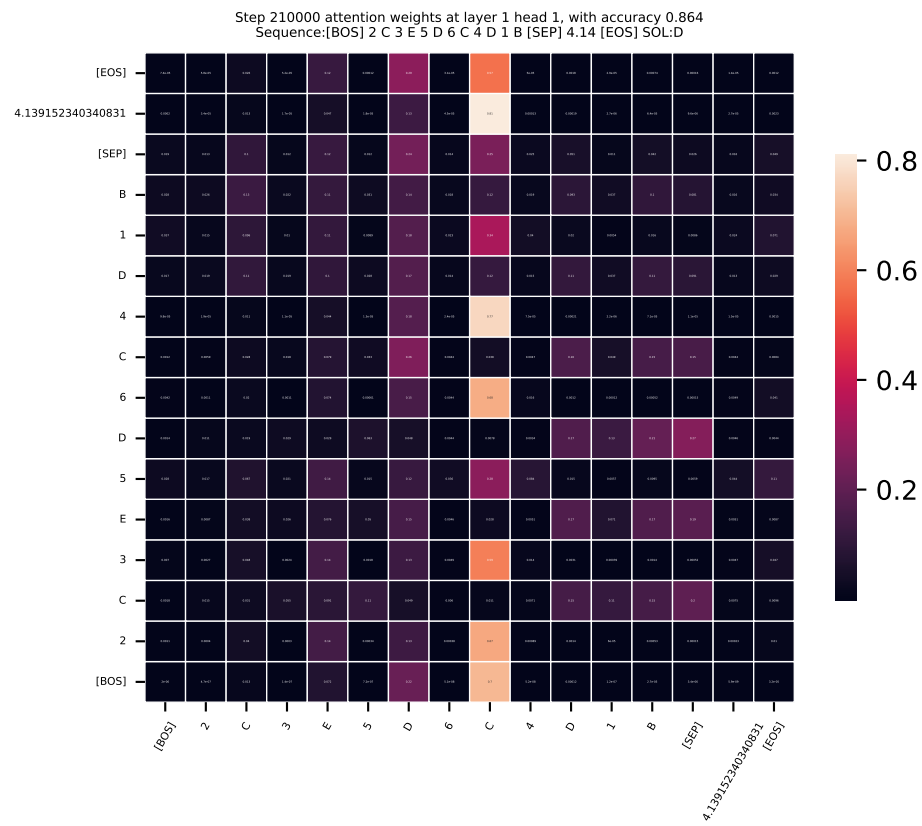
Step 210000 attention weights at layer 1 head 1, with accuracy 0.864
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B
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E
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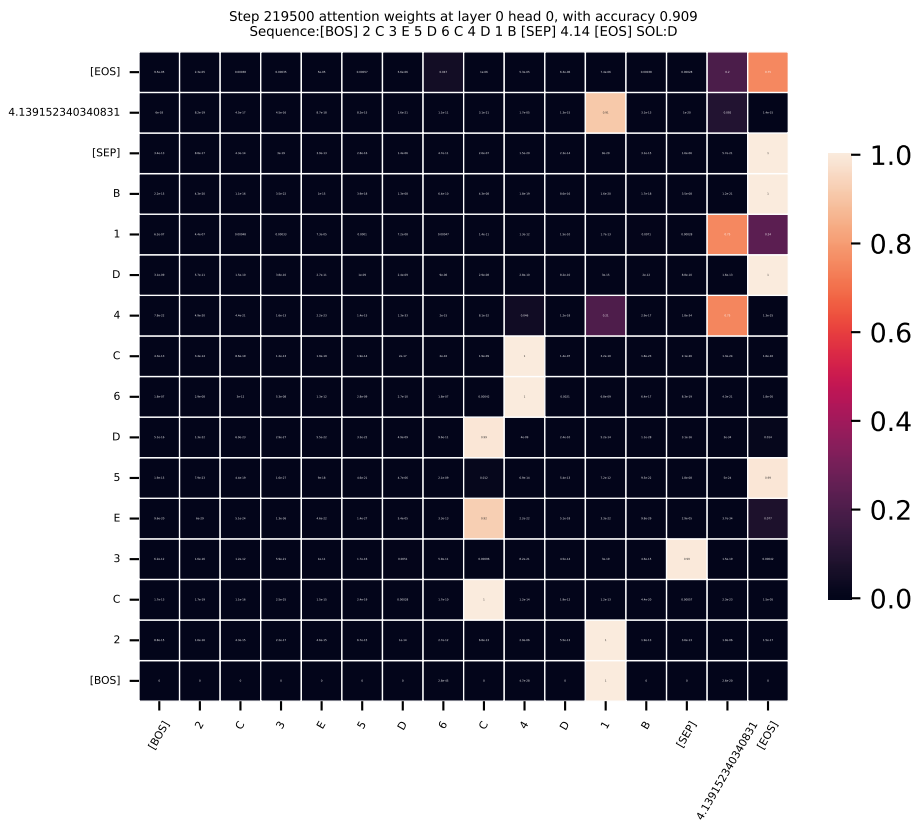
Step 219500 attention weights at layer 0 head 0, with accuracy 0.909
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[SEP]
B
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[BOS]
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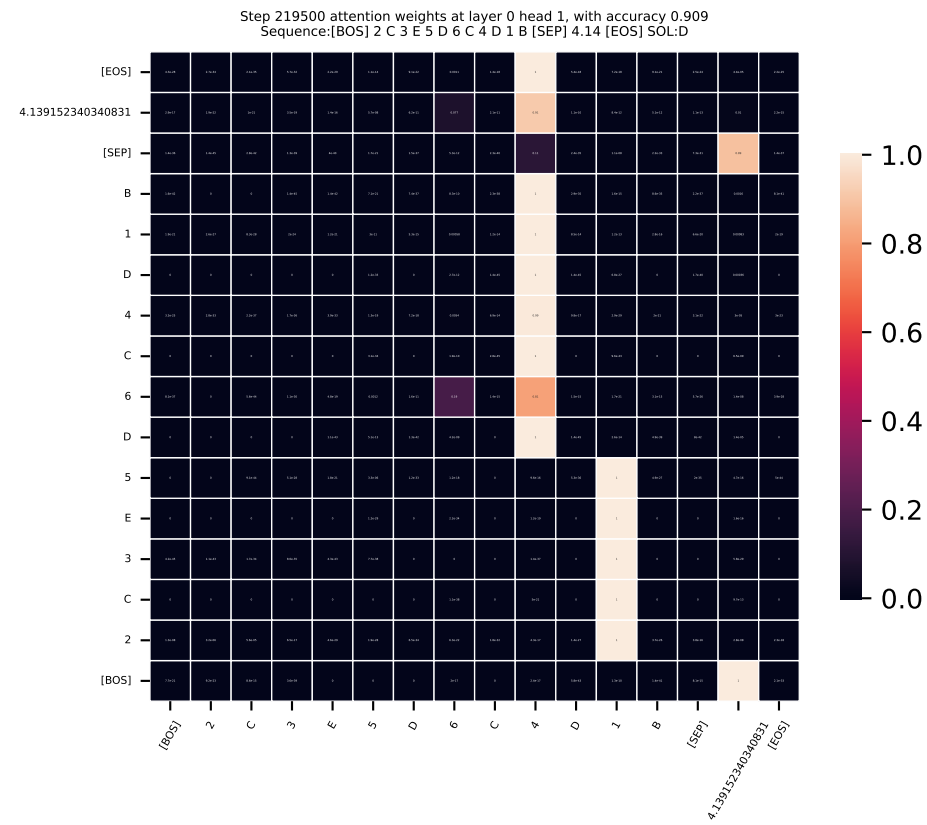
Step 219500 attention weights at layer 0 head 1, with accuracy 0.909
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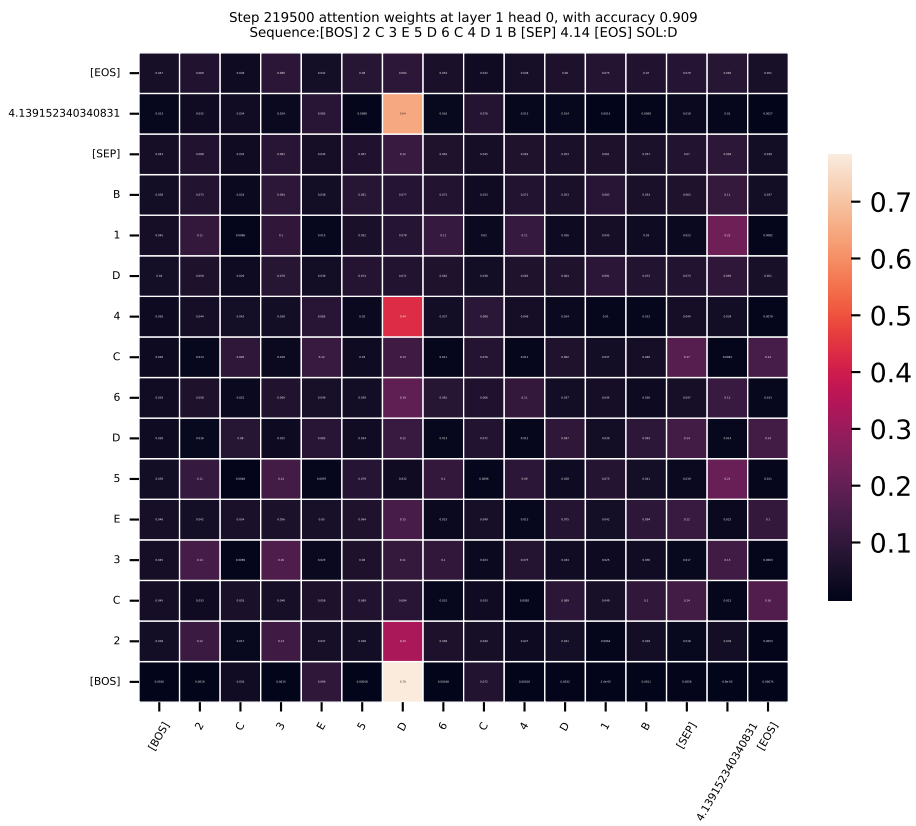
Step 219500 attention weights at layer 1 head 0, with accuracy 0.909
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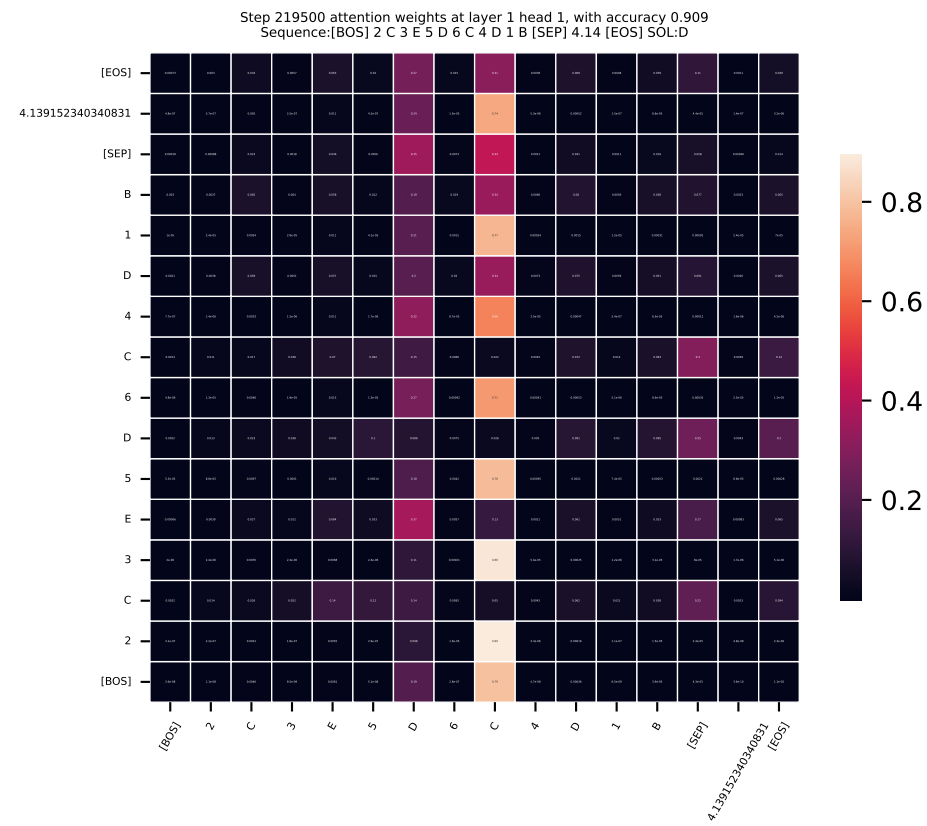
Step 219500 attention weights at layer 1 head 1, with accuracy 0.909
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[SEP]
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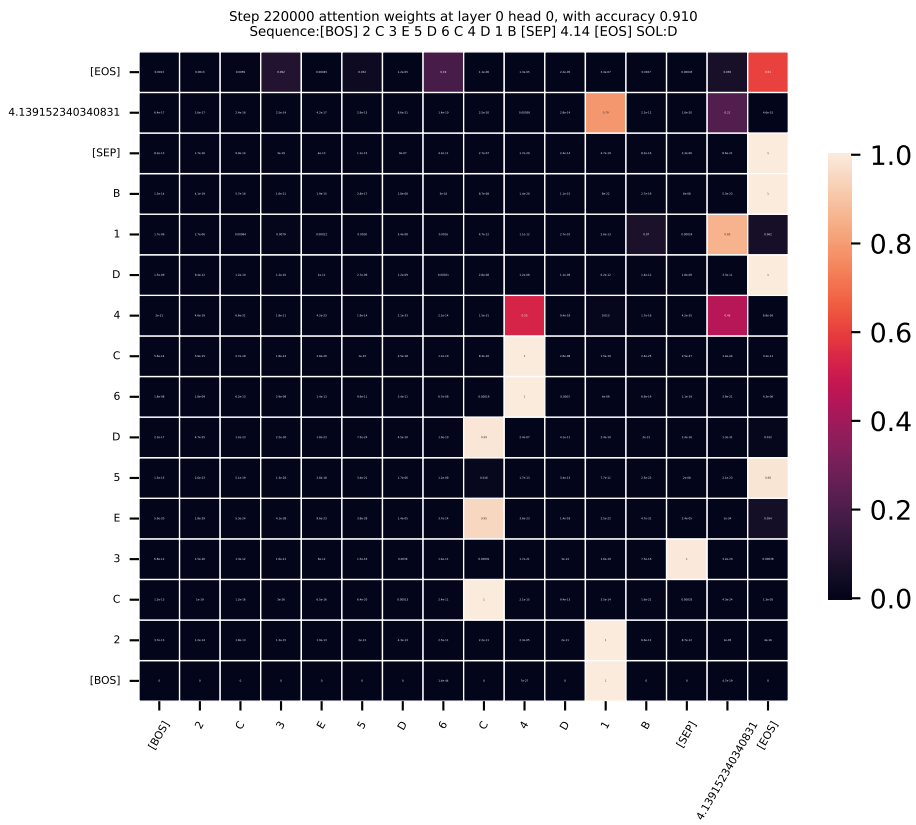
Step 220000 attention weights at layer 0 head 0, with accuracy 0.910
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[SEP]
B
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D
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C
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D
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E
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C
2
[BOS]
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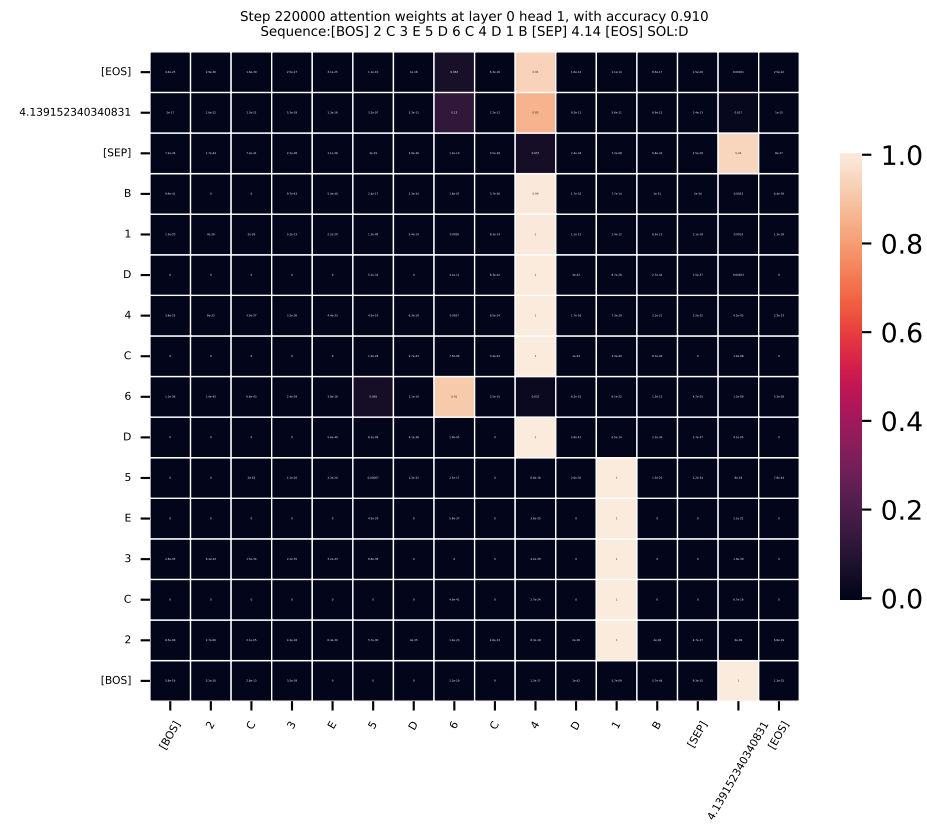
Step 220000 attention weights at layer 0 head 1, with accuracy 0.910
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[BOS]
[BOS]
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C
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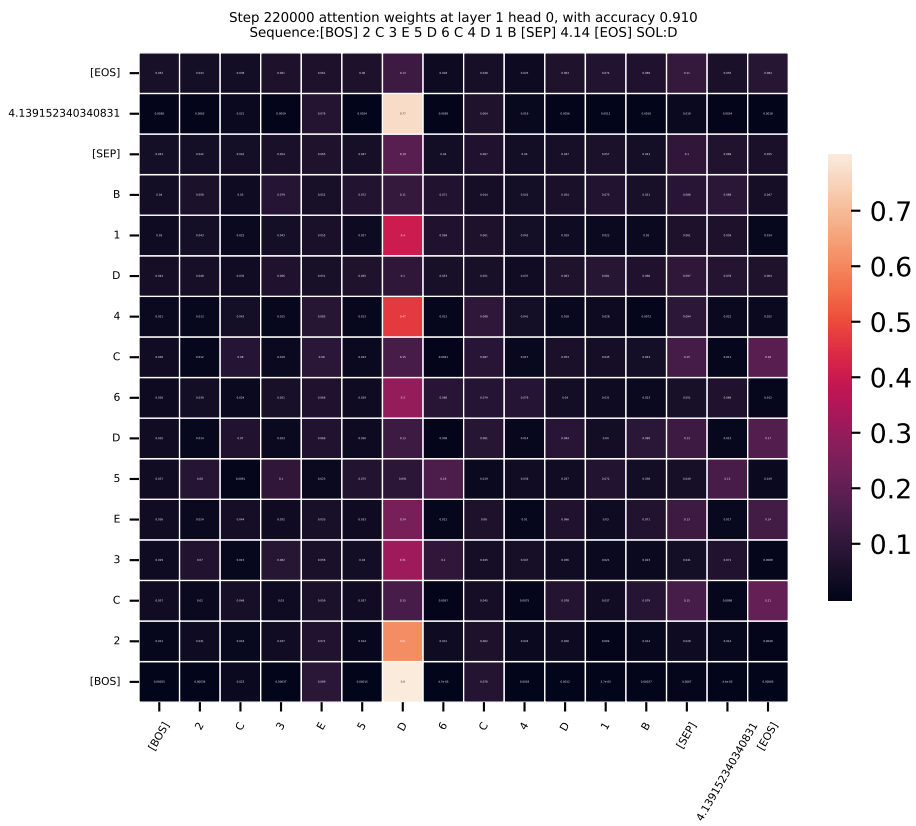
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[SEP]
B
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C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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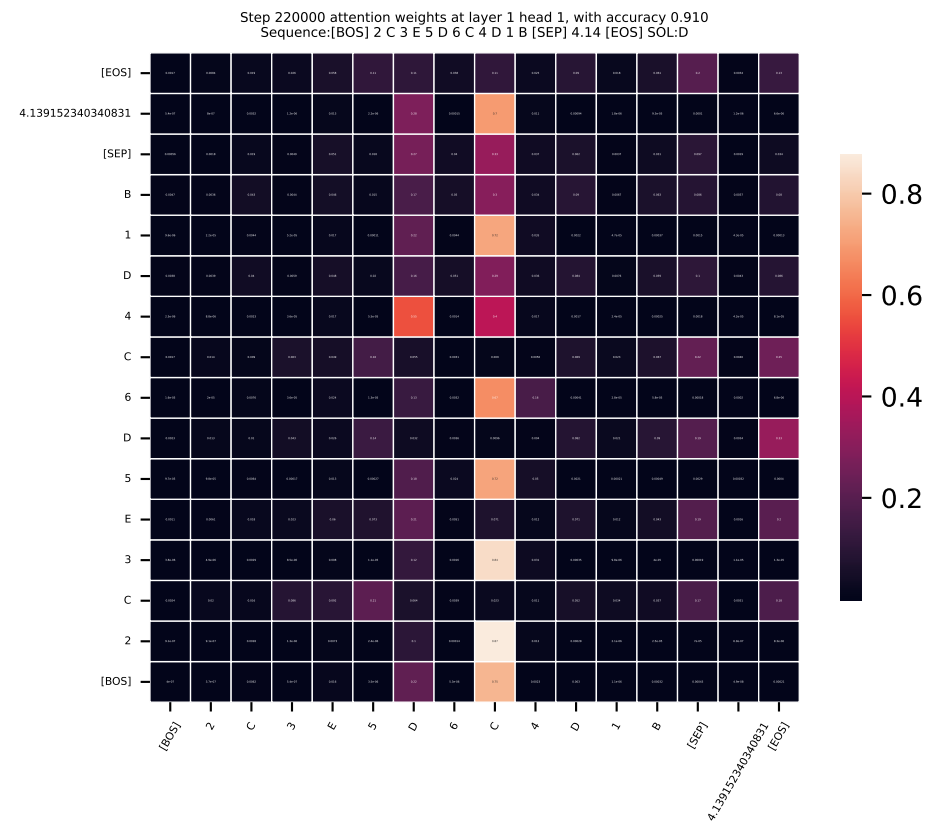
0.4
0.3
0.2
0.1


Step 220000 attention weights at layer 1 head 1, with accuracy 0.910
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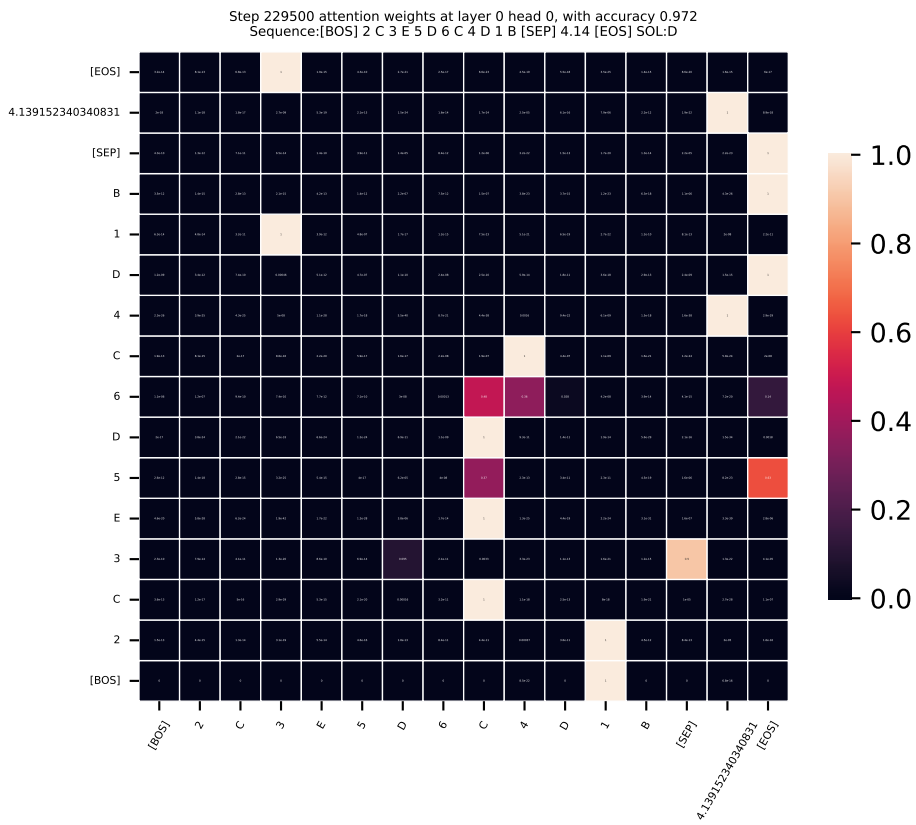
Step 229500 attention weights at layer 0 head 0, with accuracy 0.972
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
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[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
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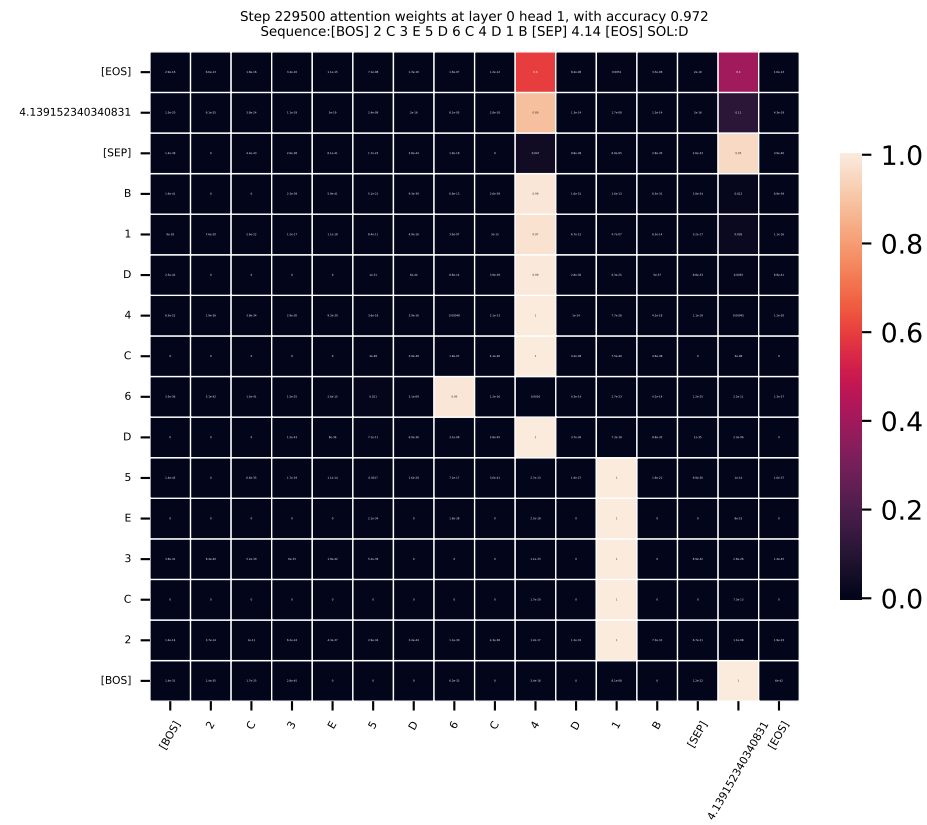
Step 229500 attention weights at layer 0 head 1, with accuracy 0.972
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[SEP]
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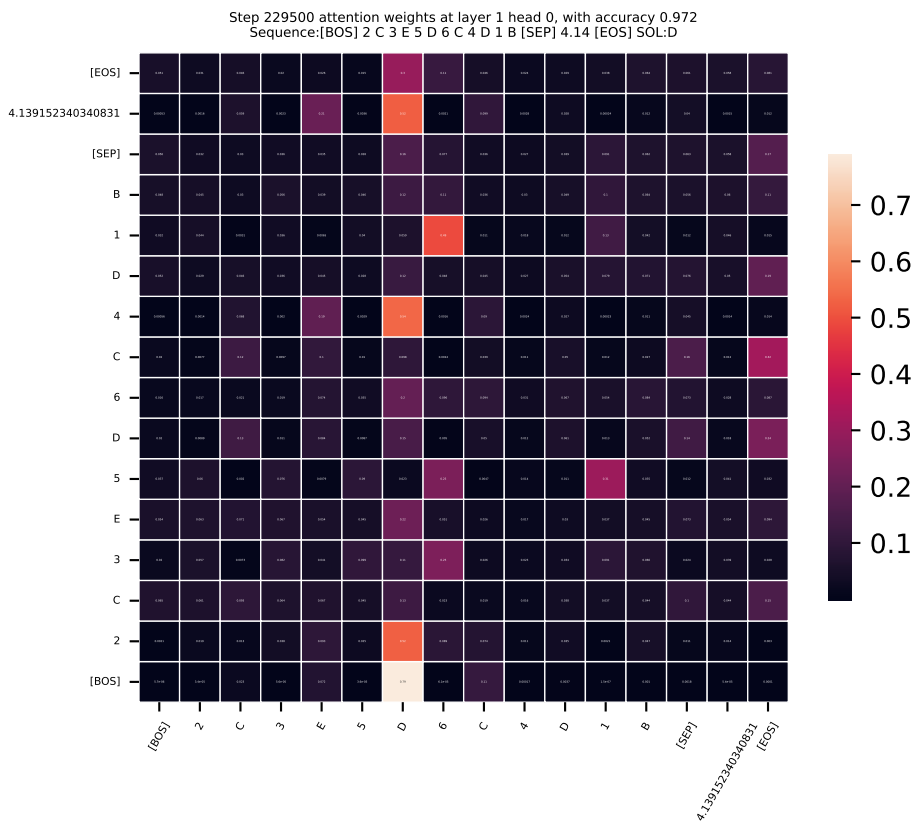
Step 229500 attention weights at layer 1 head 0, with accuracy 0.972
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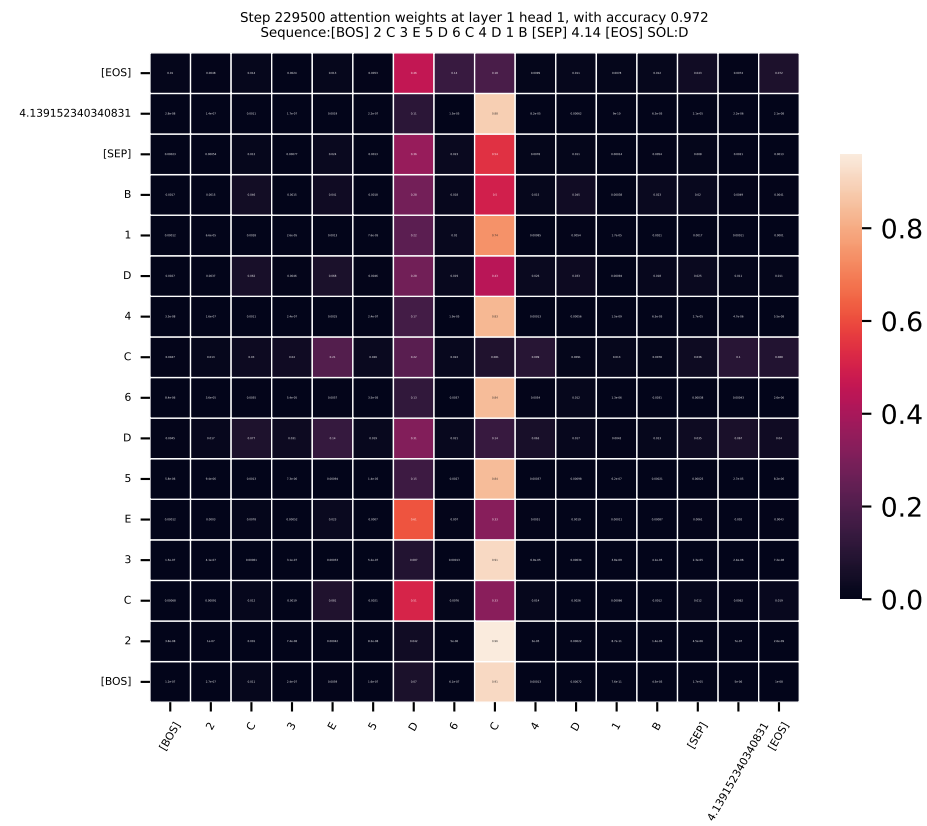
Step 229500 attention weights at layer 1 head 1, with accuracy 0.972
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
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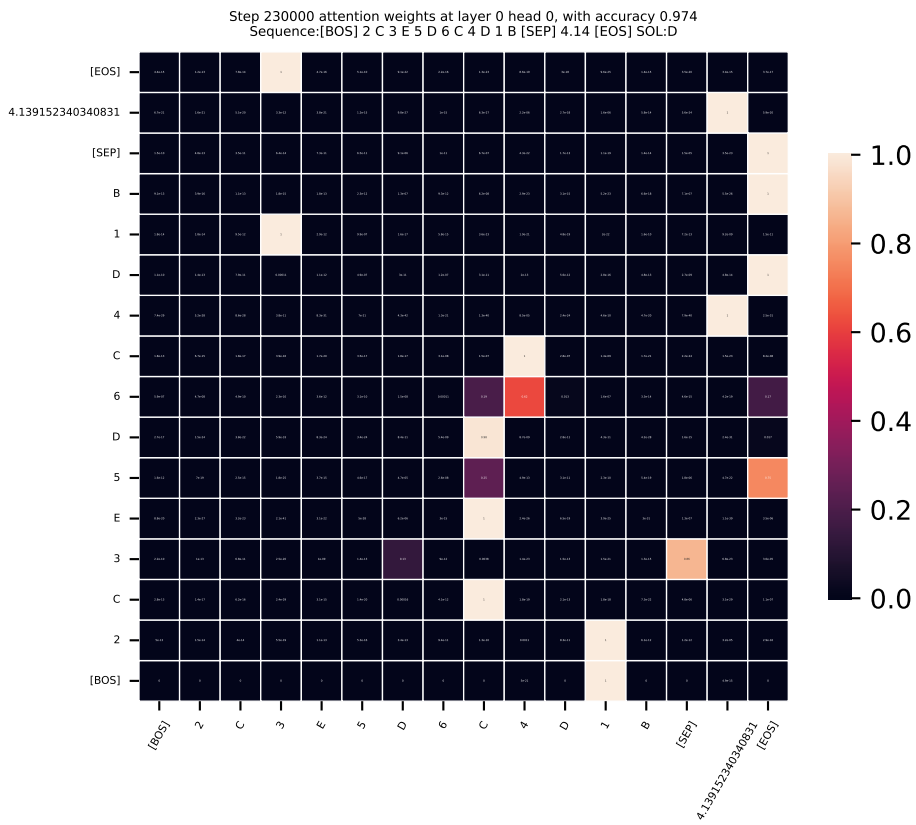
Step 230000 attention weights at layer 0 head 0, with accuracy 0.974
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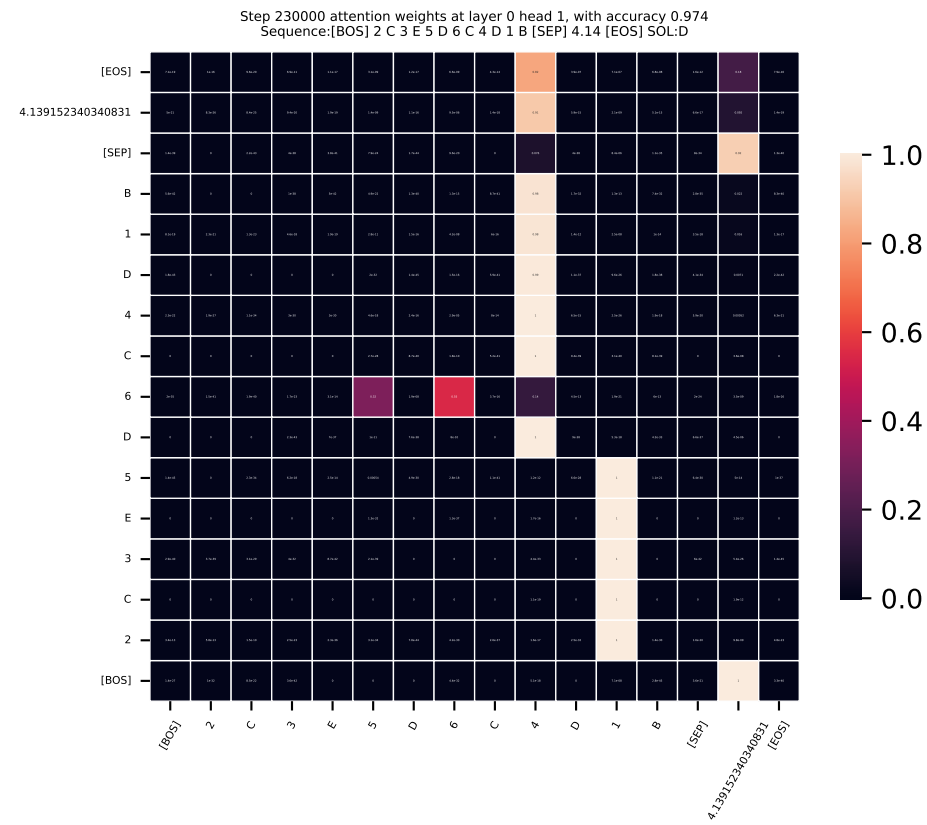
Step 230000 attention weights at layer 0 head 1, with accuracy 0.974
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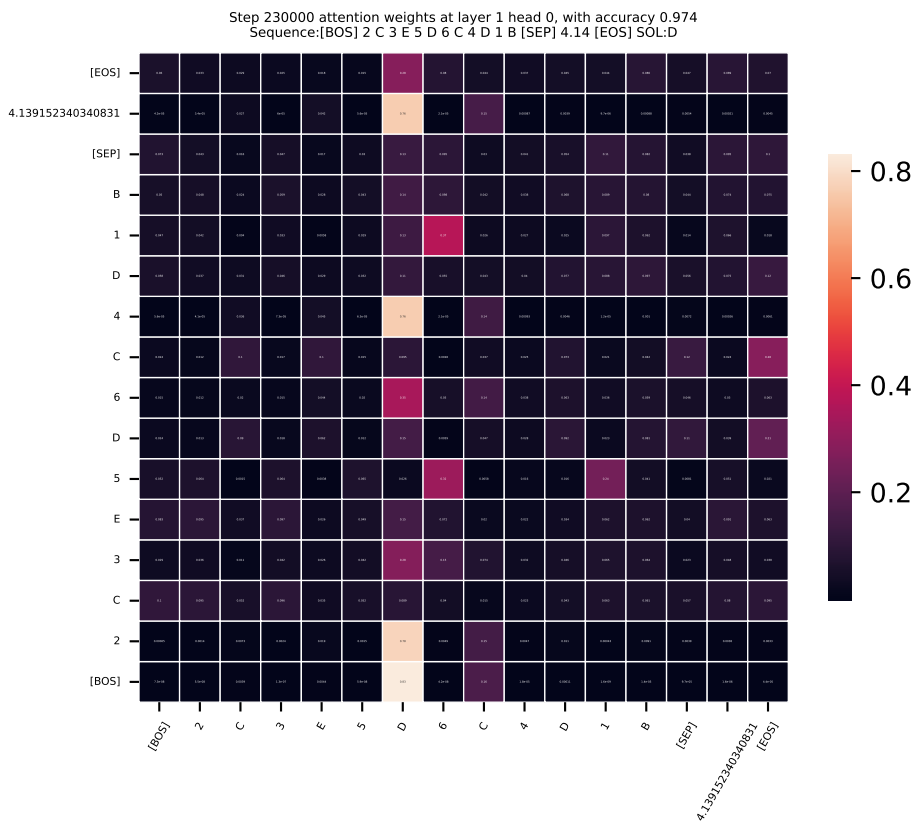
Step 230000 attention weights at layer 1 head 0, with accuracy 0.974
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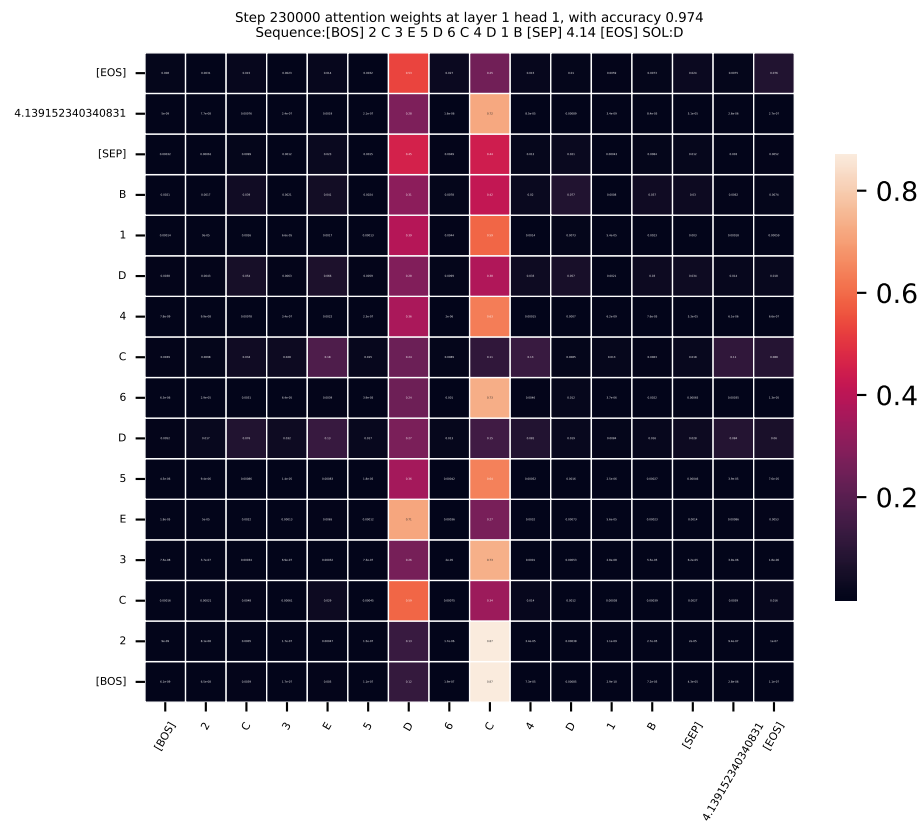
Step 230000 attention weights at layer 1 head 1, with accuracy 0.974
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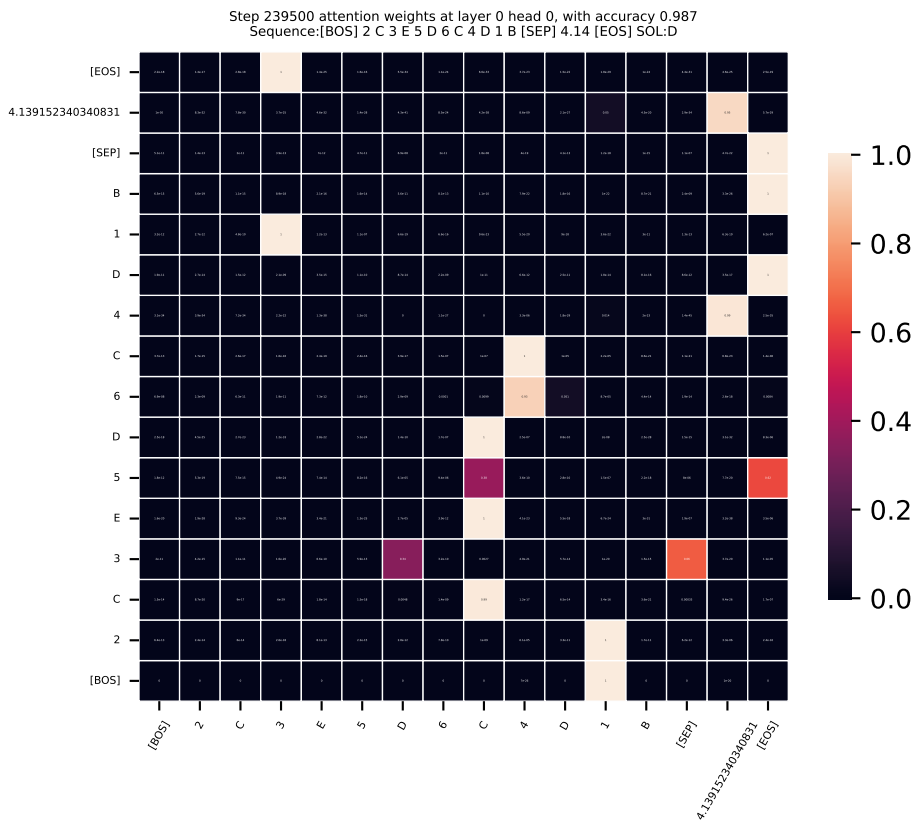
Step 239500 attention weights at layer 0 head 0, with accuracy 0.987
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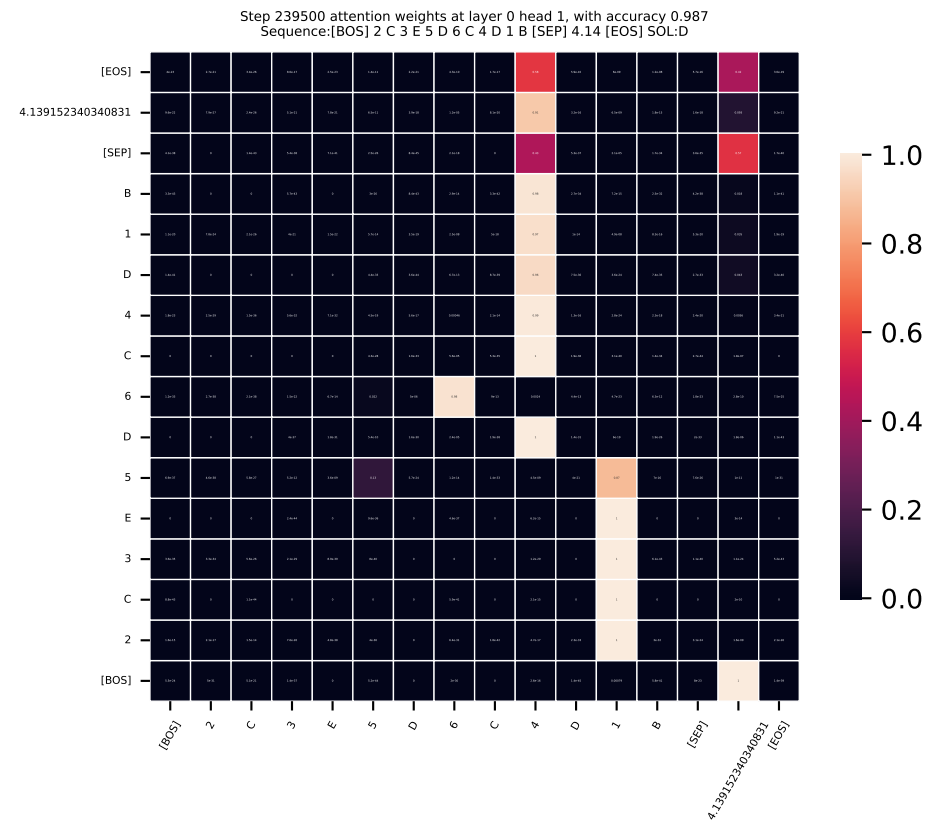
Step 239500 attention weights at layer 0 head 1, with accuracy 0.987
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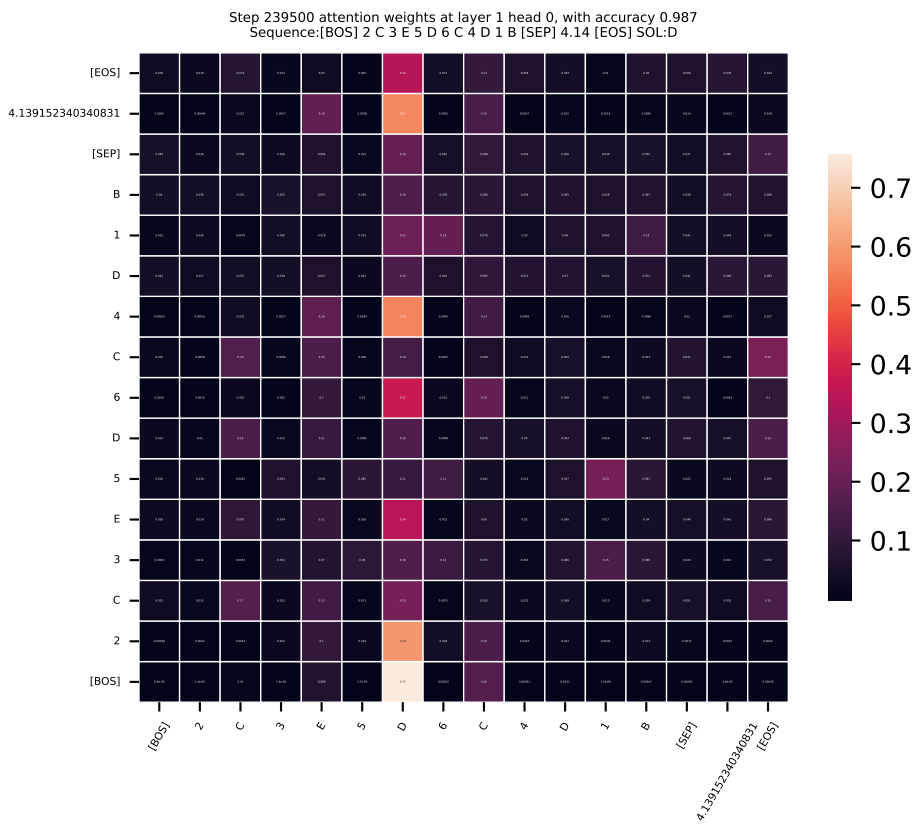
Step 239500 attention weights at layer 1 head 0, with accuracy 0.987
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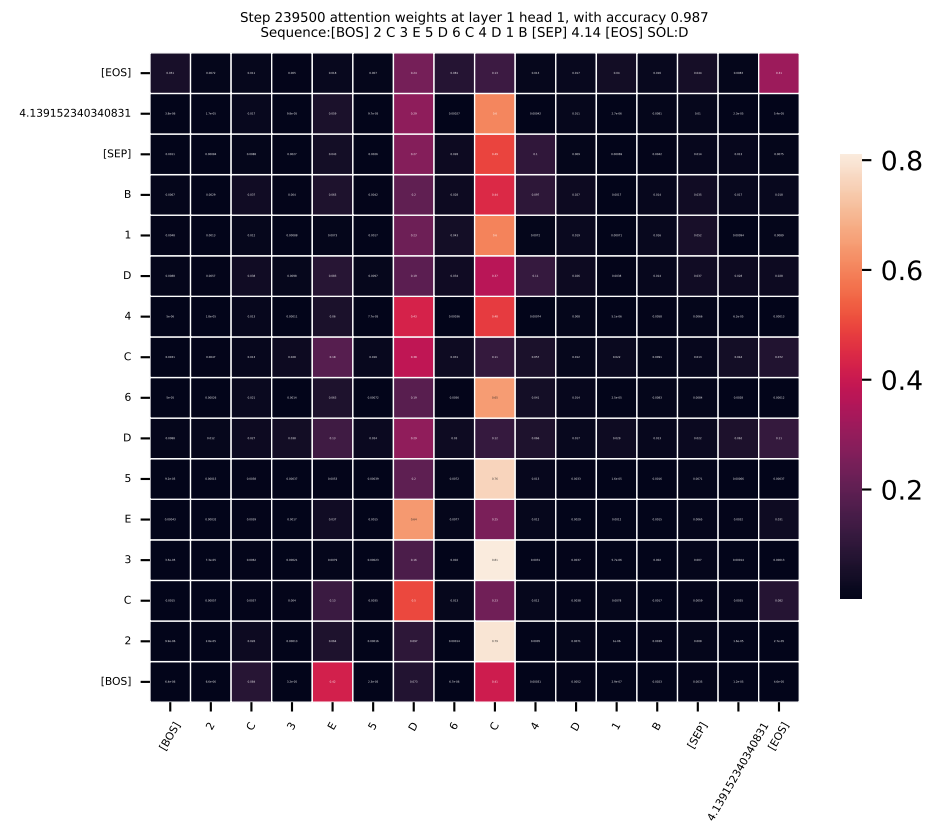
Step 239500 attention weights at layer 1 head 1, with accuracy 0.987
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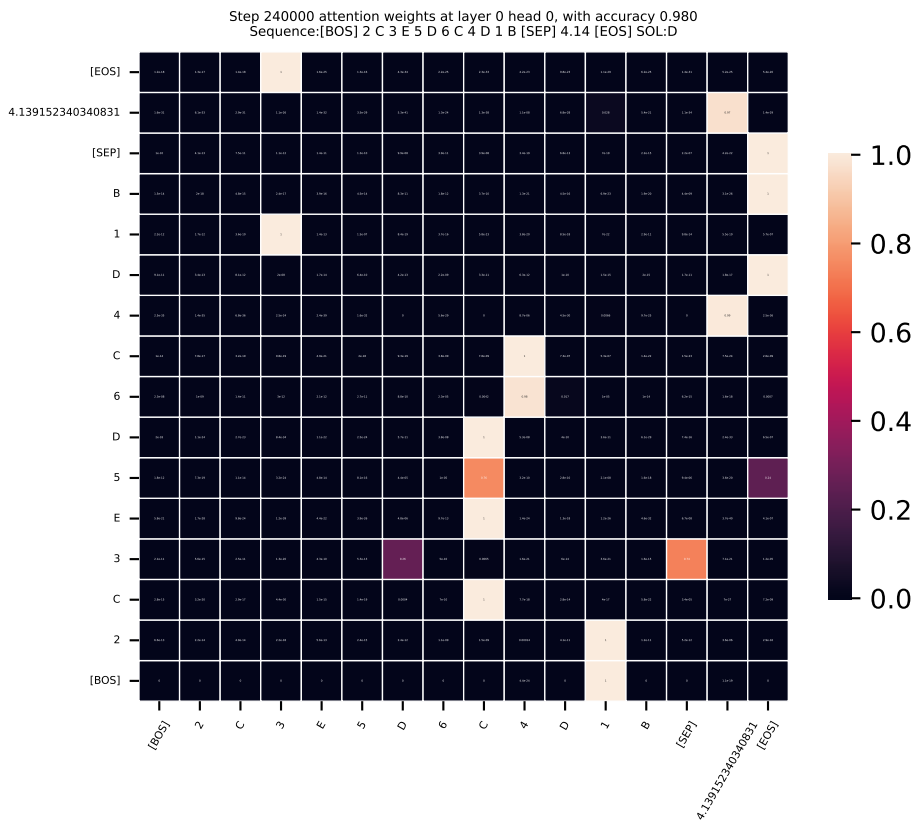
Step 240000 attention weights at layer 0 head 0, with accuracy 0.980
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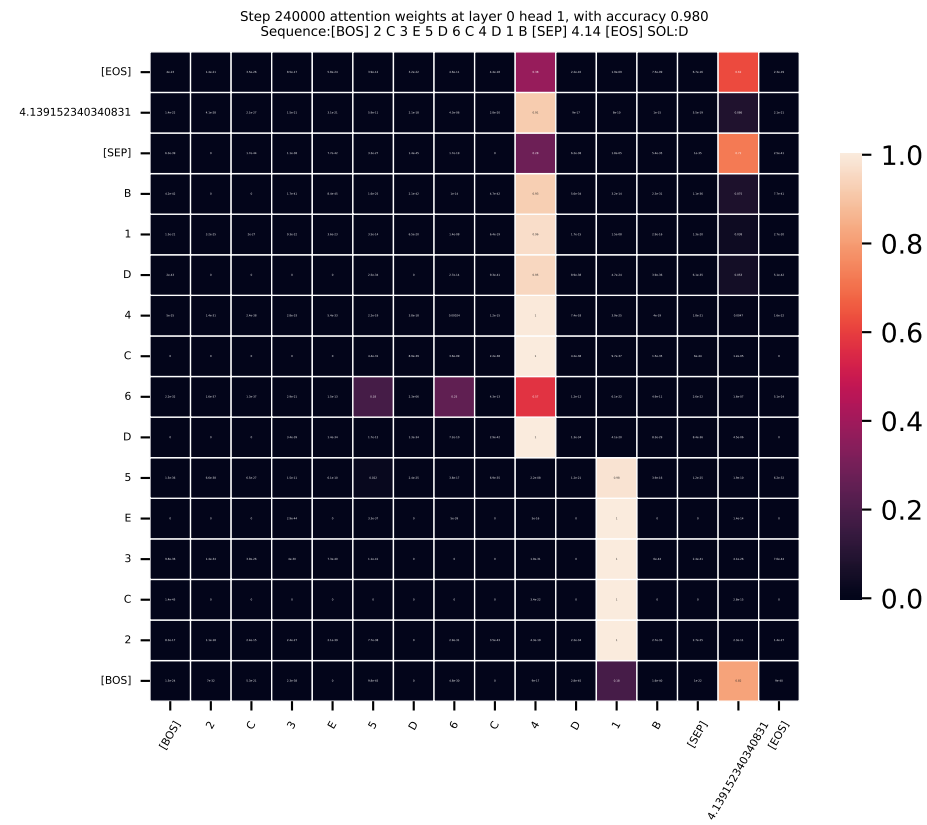
Step 240000 attention weights at layer 0 head 1, with accuracy 0.980
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C
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C
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[BOS]
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C
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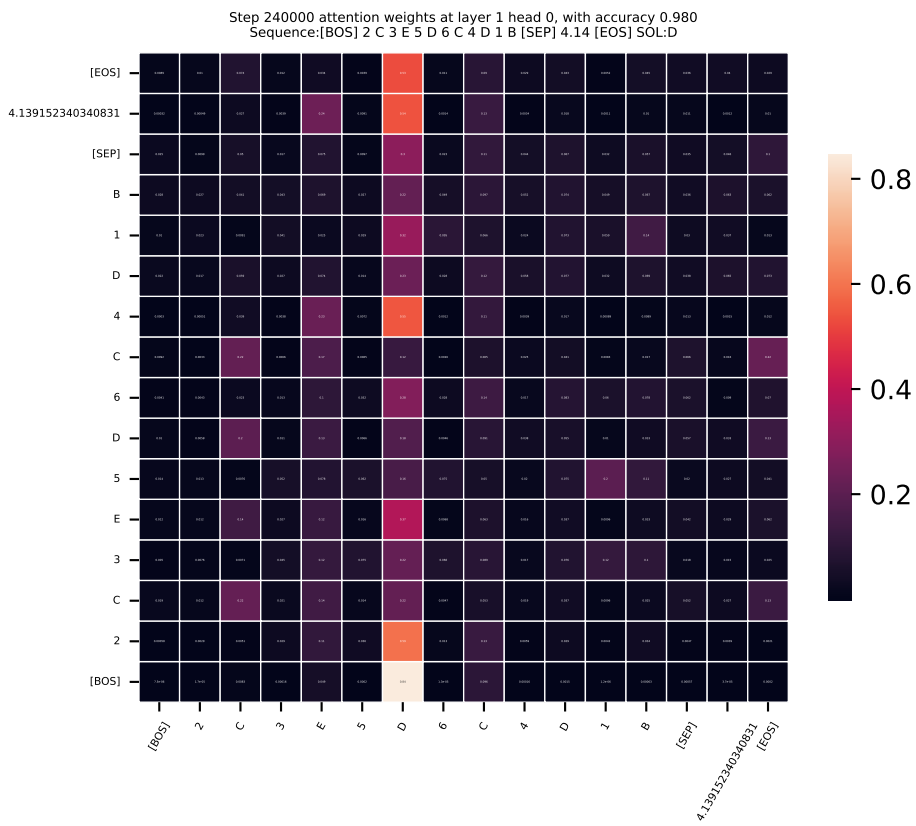
Step 240000 attention weights at layer 1 head 0, with accuracy 0.980
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D
4
C
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D
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E
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C
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0.4
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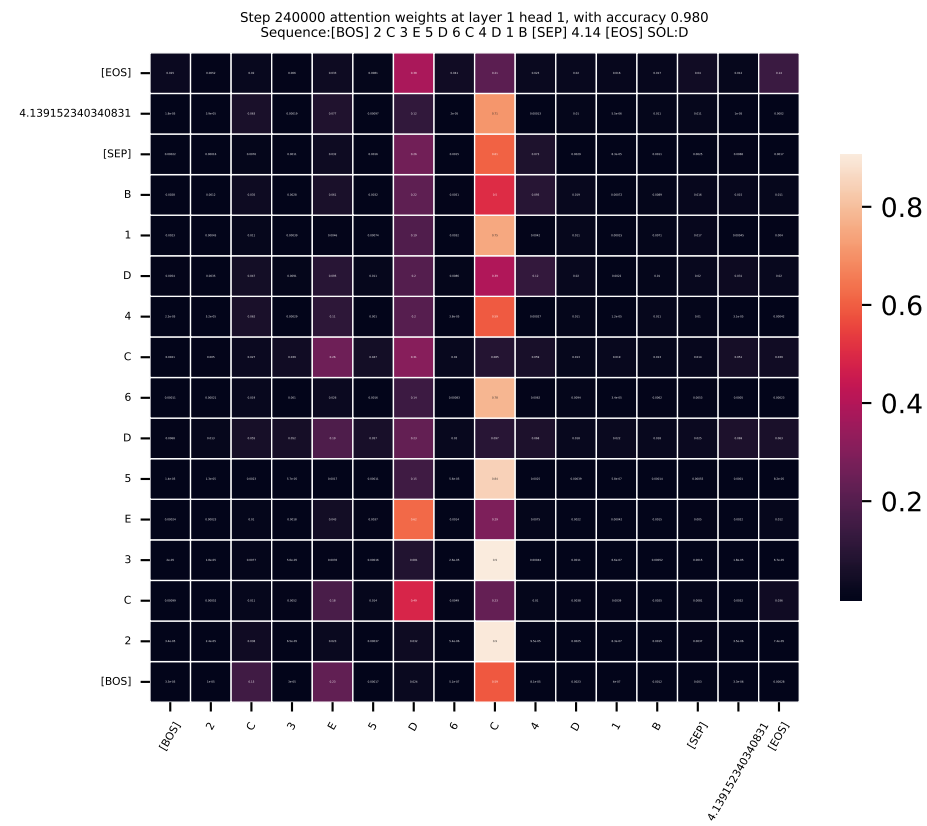
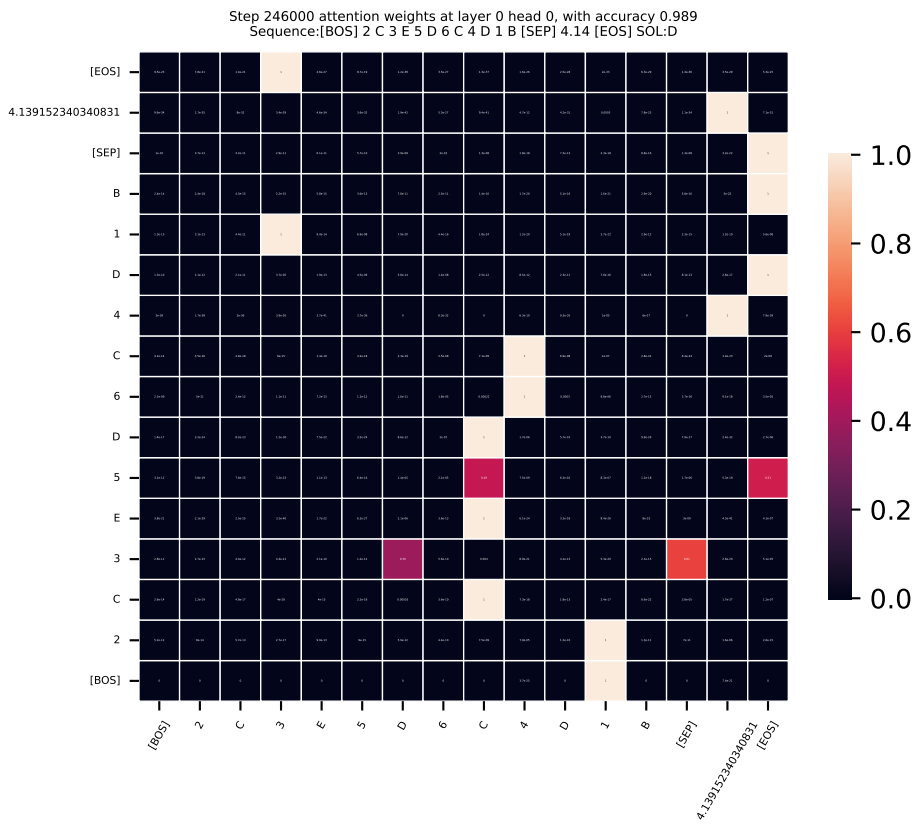

Step 240000 attention weights at layer 1 head 1, with accuracy 0.980
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
1
D
4
C
6
D
5
E
3
C
2
[BOS]
[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.139152340340831 [EOS]
0.8
0.6
0.4
0.2


Step 246000 attention weights at layer 0 head 0, with accuracy 0.989
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
B
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E
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C
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[BOS]
[BOS]
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5
D
6
C
4
D
1
B
[SEP]
4.139152340340831
[EOS]
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0.8
0.6
0.4
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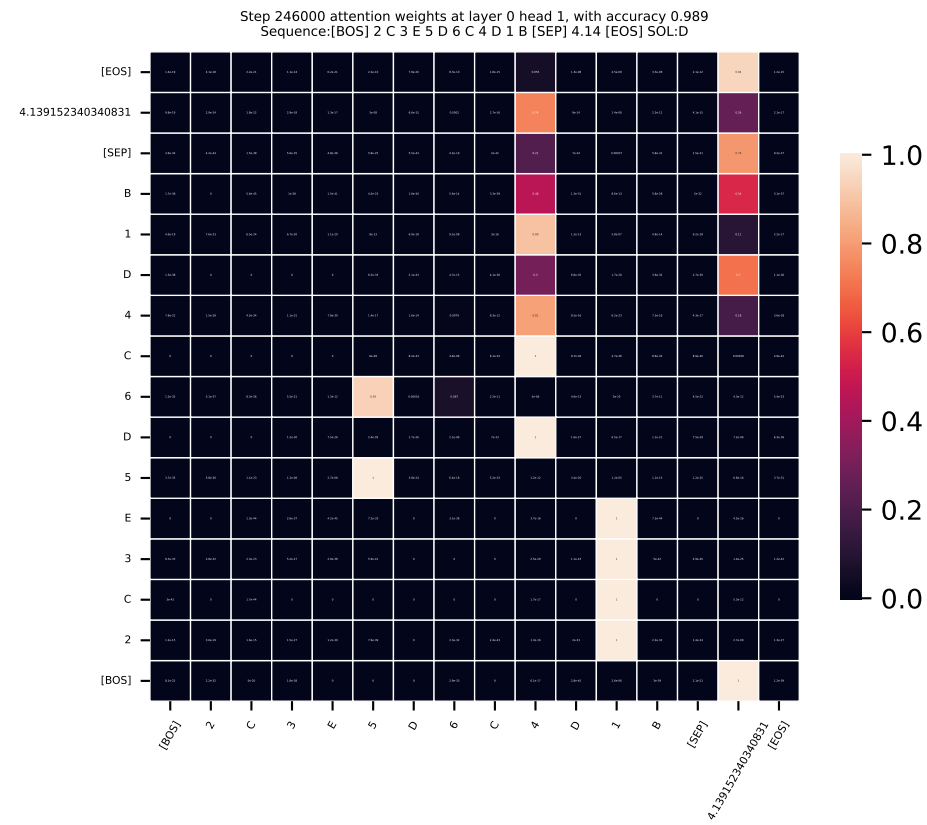
Step 246000 attention weights at layer 0 head 1, with accuracy 0.989
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
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[SEP]
4.139152340340831
[EOS]
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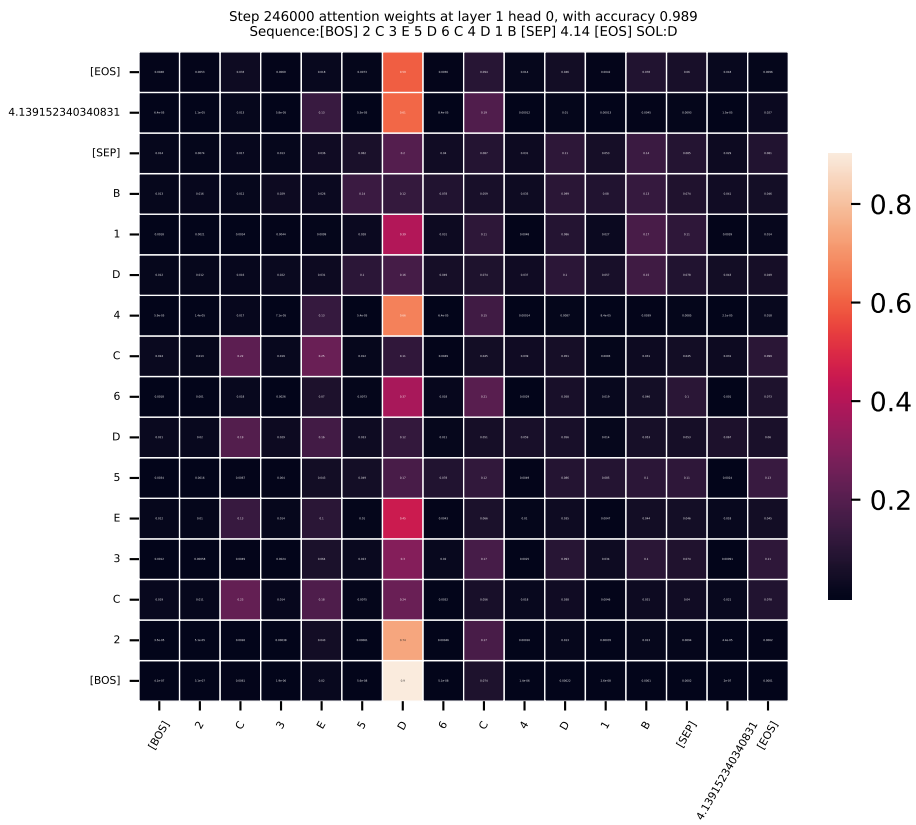
Step 246000 attention weights at layer 1 head 0, with accuracy 0.989
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
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4.139152340340831
[EOS]
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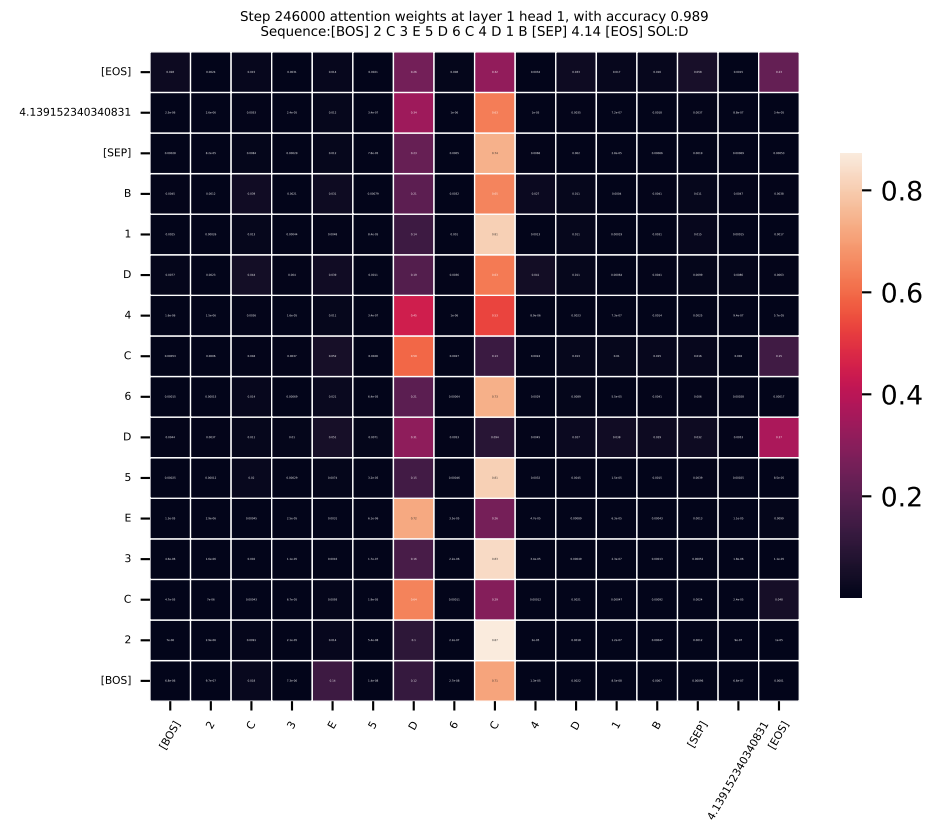
Step 246000 attention weights at layer 1 head 1, with accuracy 0.989
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
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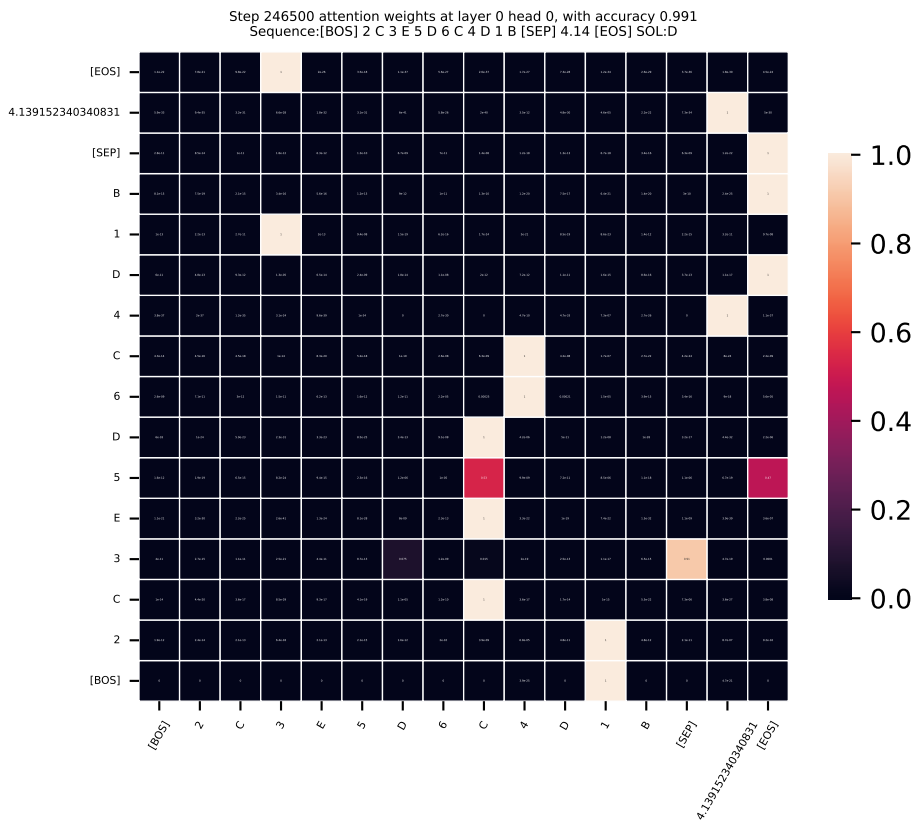
Step 246500 attention weights at layer 0 head 0, with accuracy 0.991
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
[SEP]
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E
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2
[BOS]
[BOS]
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C
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D
1
B
[SEP]
4.139152340340831
[EOS]
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0.8
0.6
0.4
0.2
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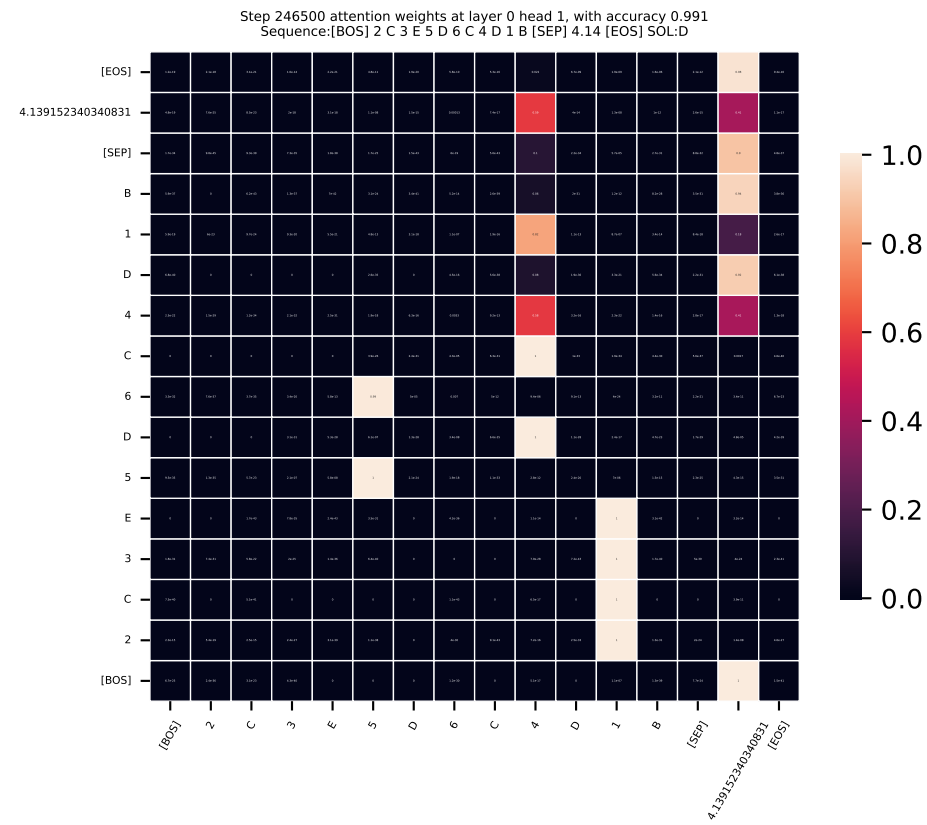
Step 246500 attention weights at layer 0 head 1, with accuracy 0.991
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
4.139152340340831
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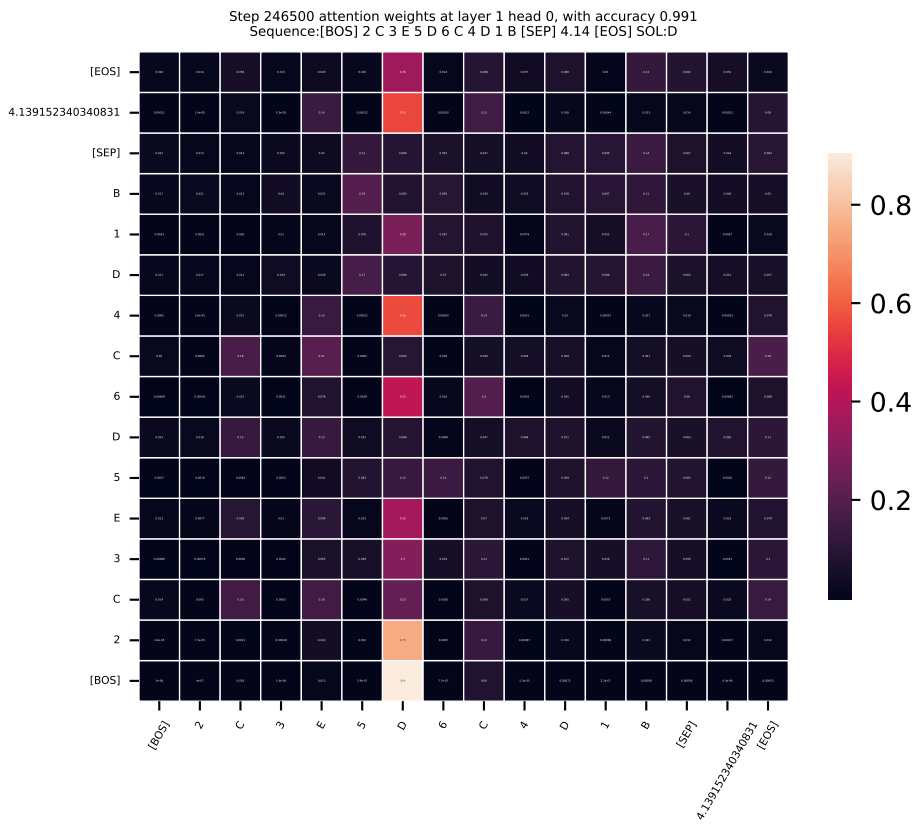
Step 246500 attention weights at layer 1 head 0, with accuracy 0.991
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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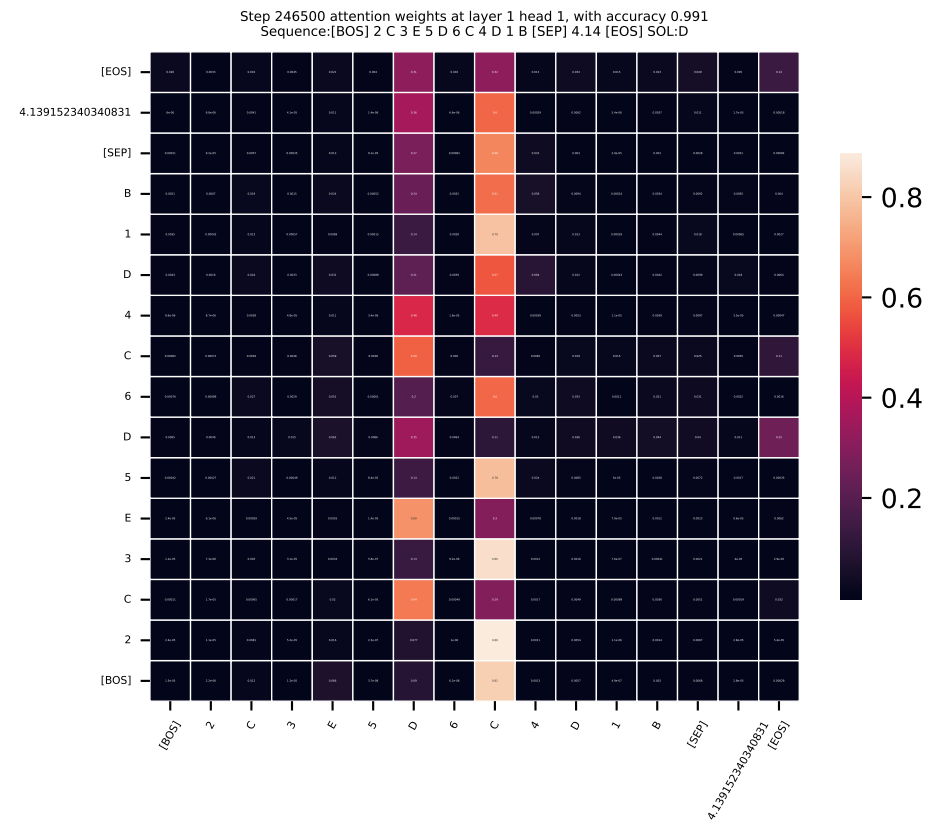
Step 246500 attention weights at layer 1 head 1, with accuracy 0.991
Sequence:[BOS] 2 C 3 E 5 D 6 C 4 D 1 B [SEP] 4.14 [EOS] SOL:D
[EOS]
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[SEP]
4.139152340340831
[EOS]
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