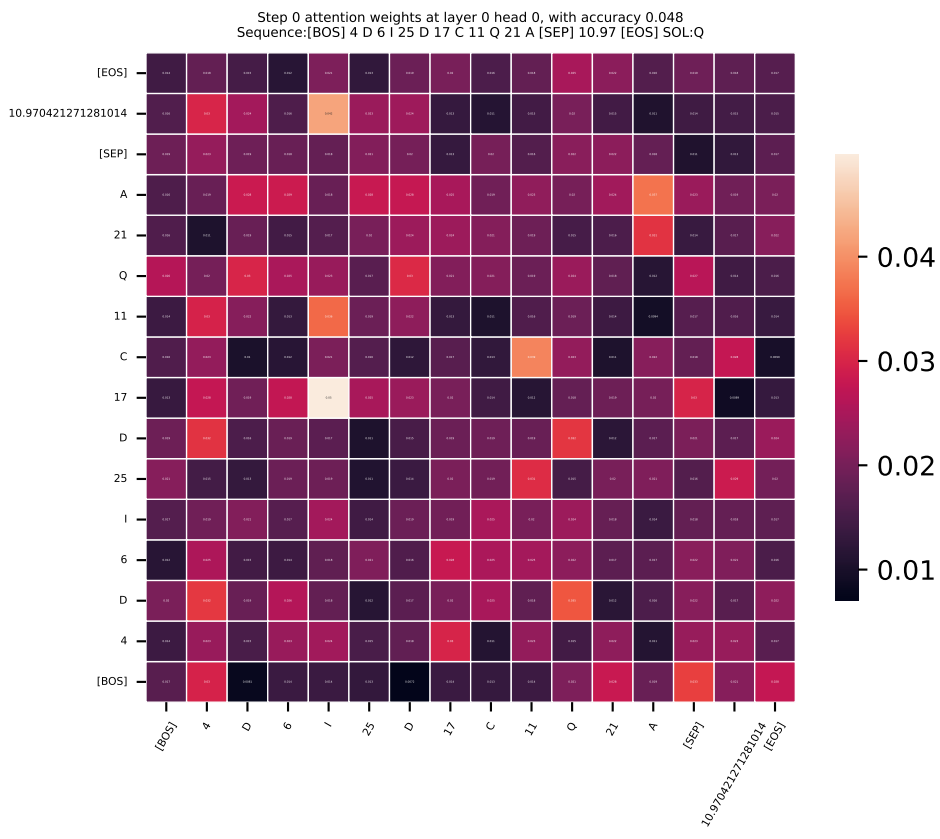
Step 0 attention weights at layer 0 head 0, with accuracy 0.048
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[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
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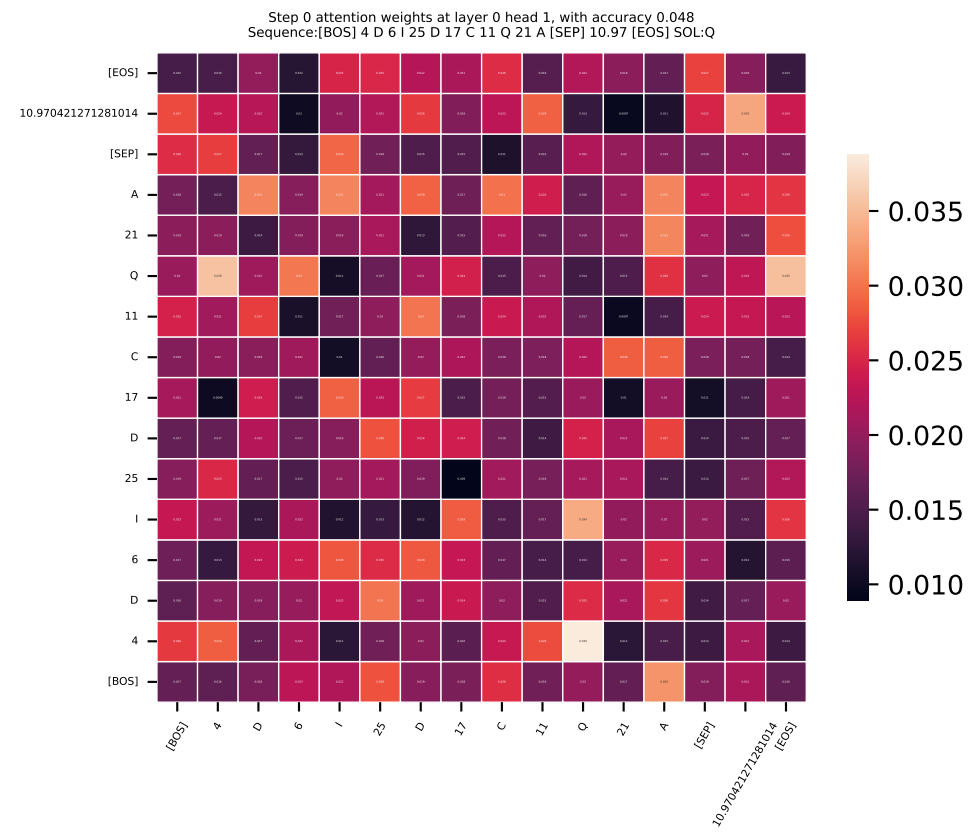
0.02
0.01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[EOS]
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[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
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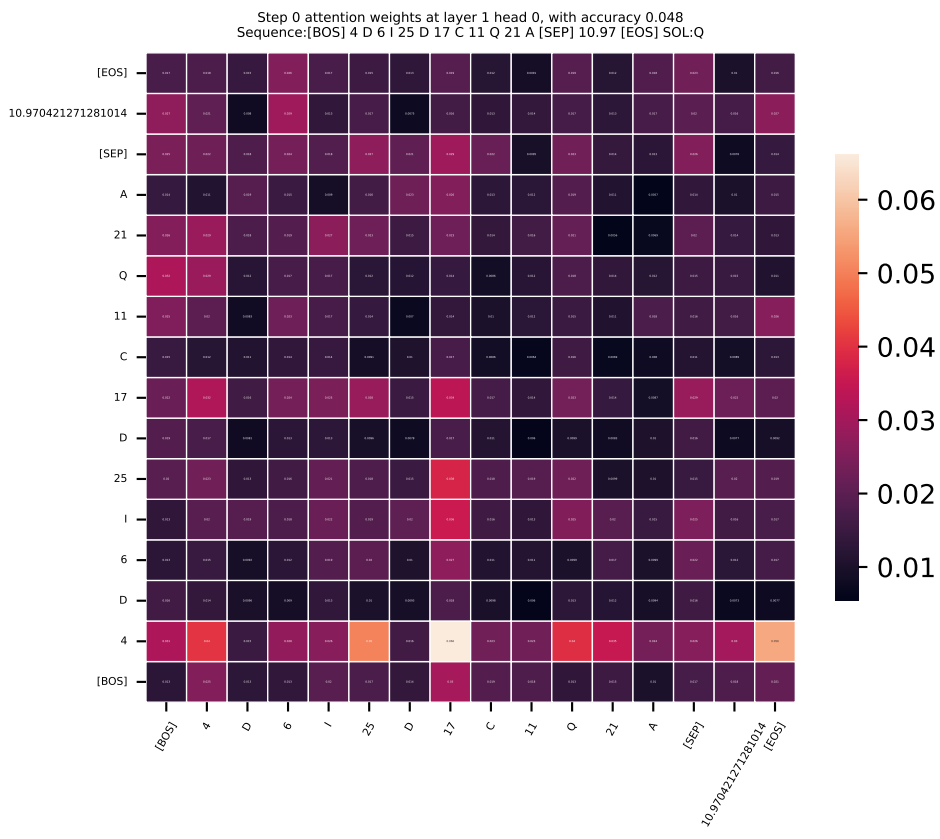
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Q
11
C
17
D
25
I
6
D
4
[BOS]
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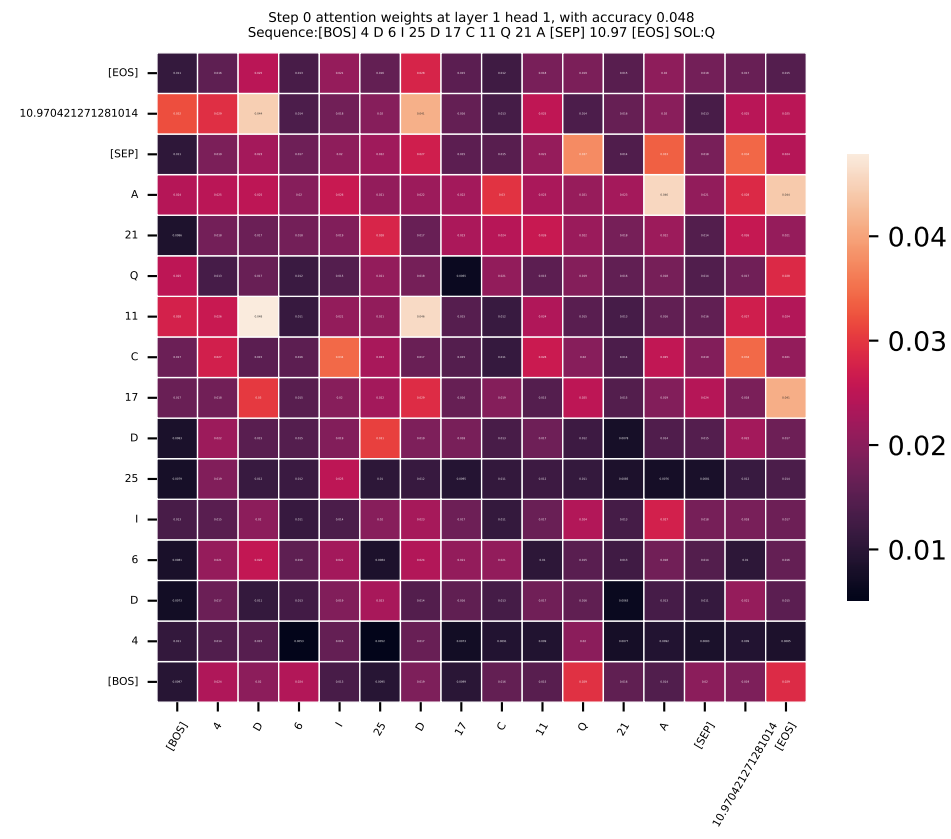
Step 0 attention weights at layer 1 head 1, with accuracy 0.048
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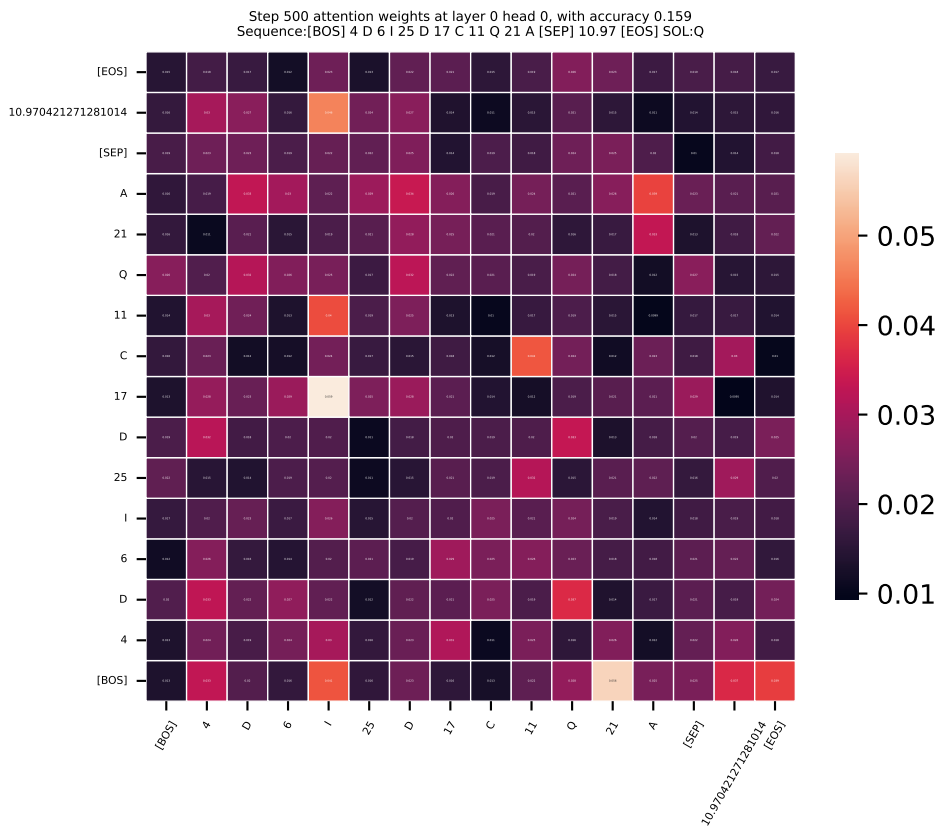
Step 500 attention weights at layer 0 head 0, with accuracy 0.159
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[SEP]
A
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Q
11
C
17
D
25
I
6
D
4
[BOS]
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0.02
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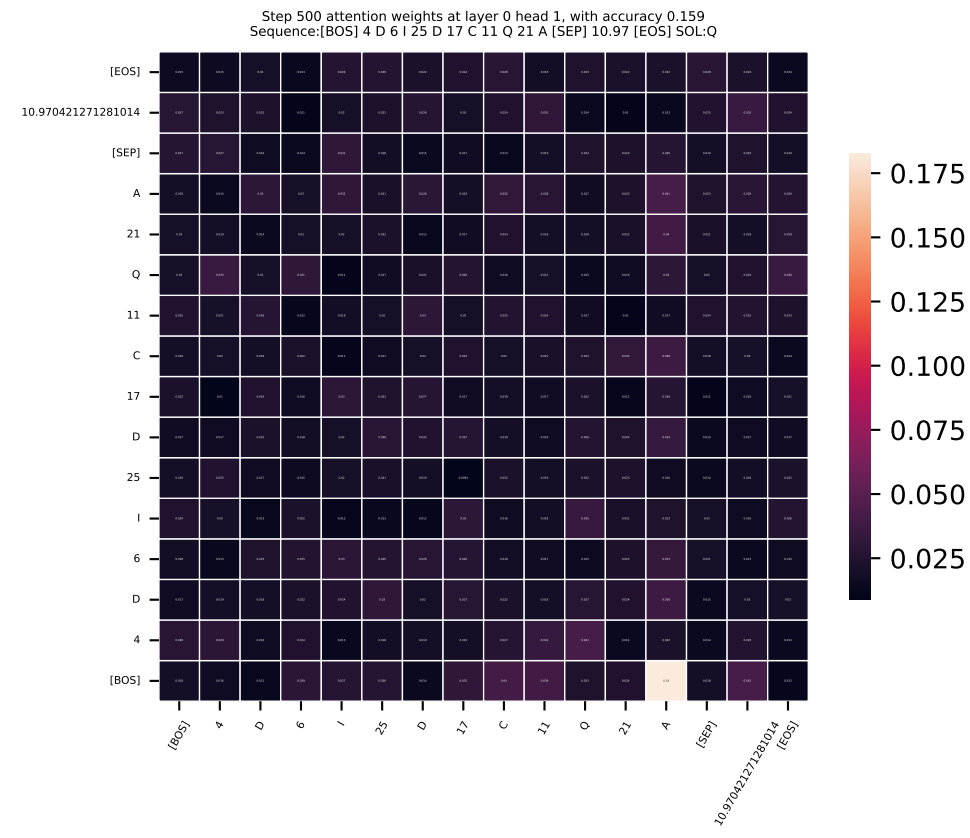
Step 500 attention weights at layer 0 head 1, with accuracy 0.159
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[SEP]
A
21
Q
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D
25
I
6
D
4
[BOS]
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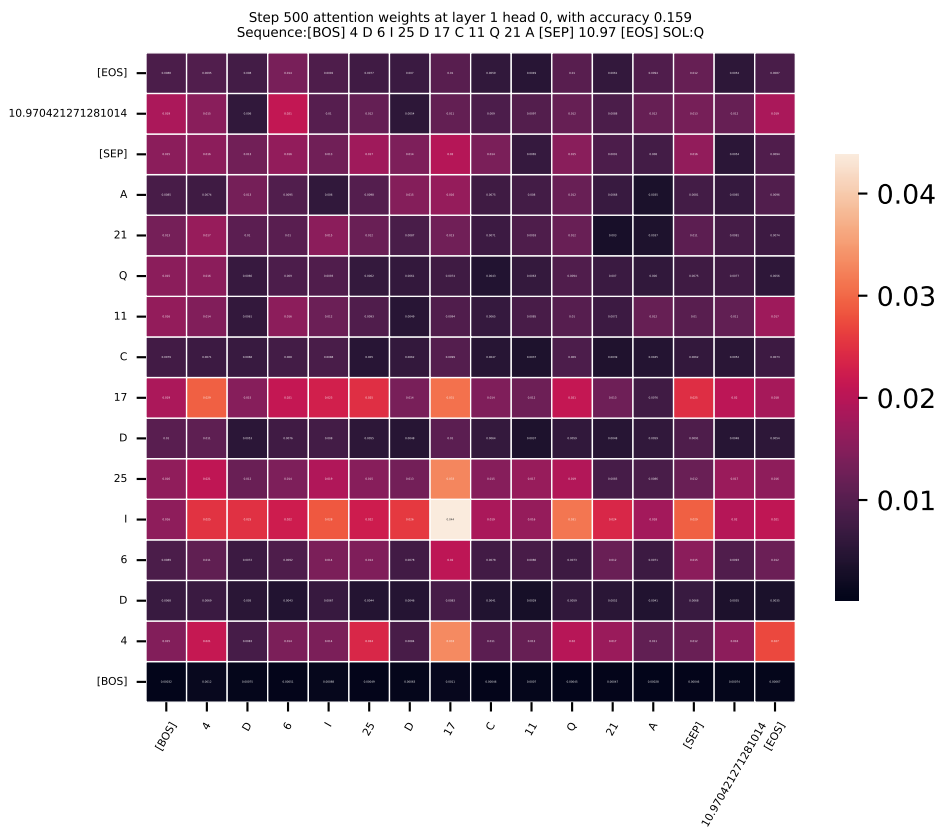
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C
17
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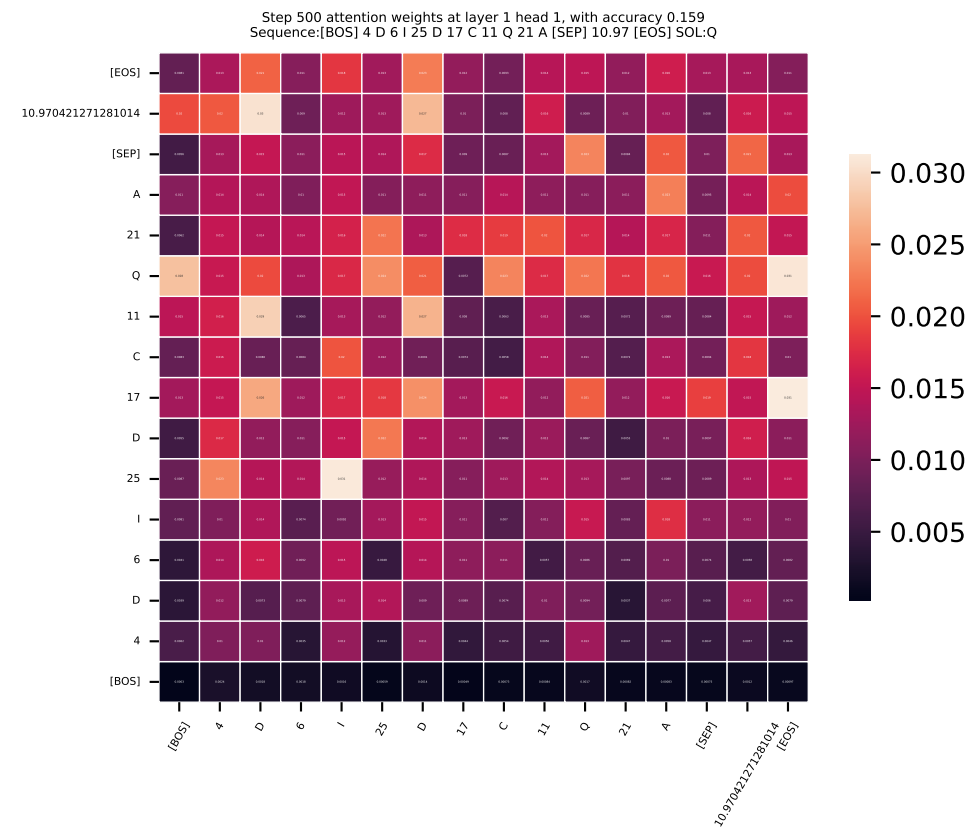
Step 500 attention weights at layer 1 head 1, with accuracy 0.159
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Q
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C
17
D
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I
6
D
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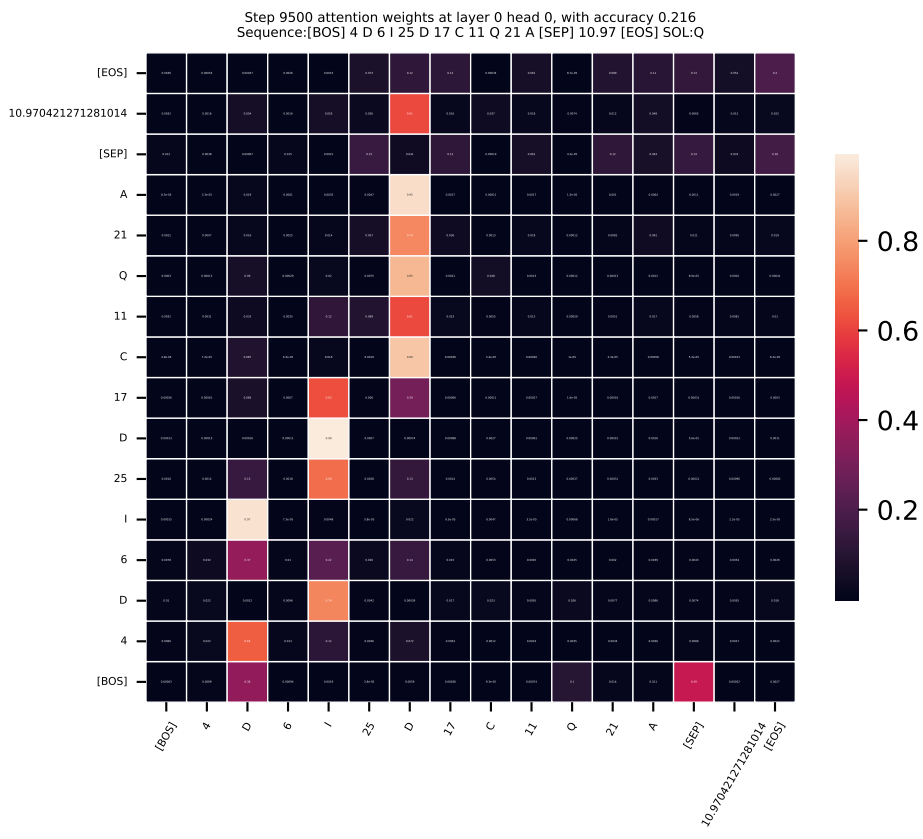
Step 9500 attention weights at layer 0 head 0, with accuracy 0.216
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[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
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0.4
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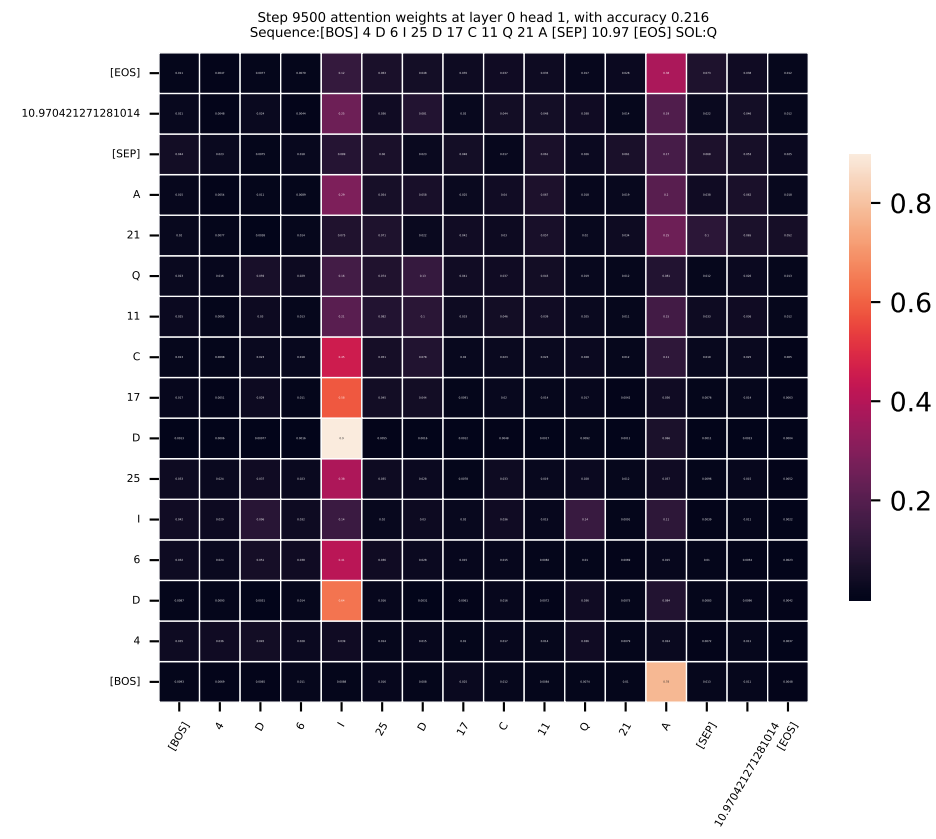
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[SEP]
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C
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6
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0.6
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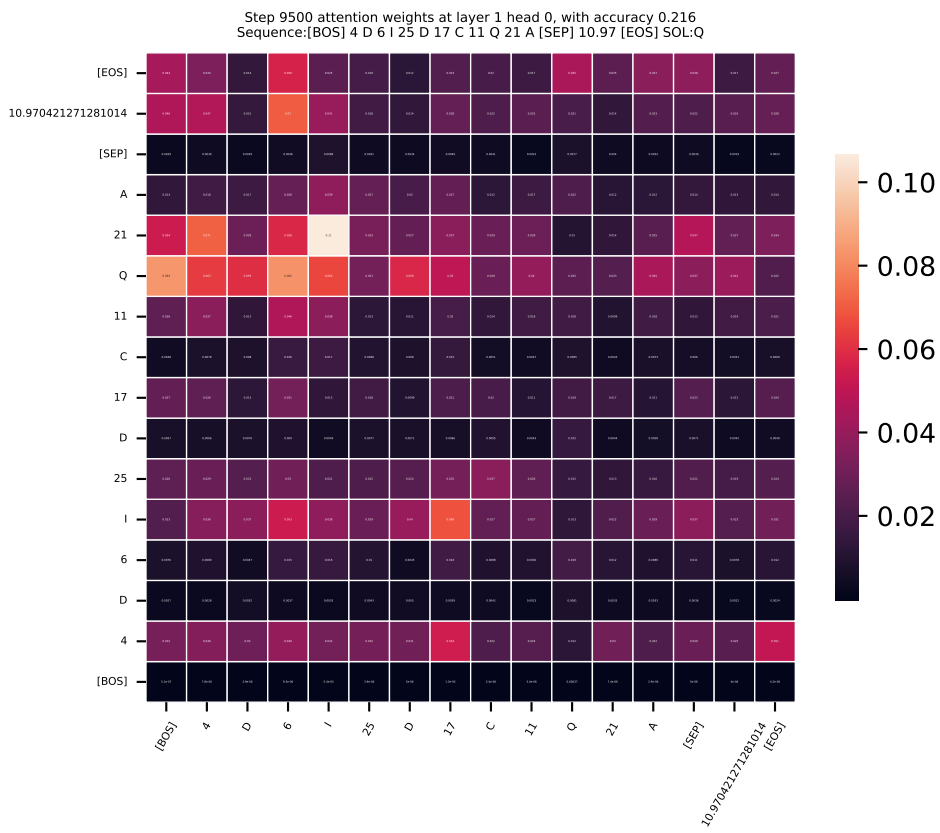
Step 9500 attention weights at layer 1 head 0, with accuracy 0.216
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D
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I
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D
4
[BOS]
[BOS]
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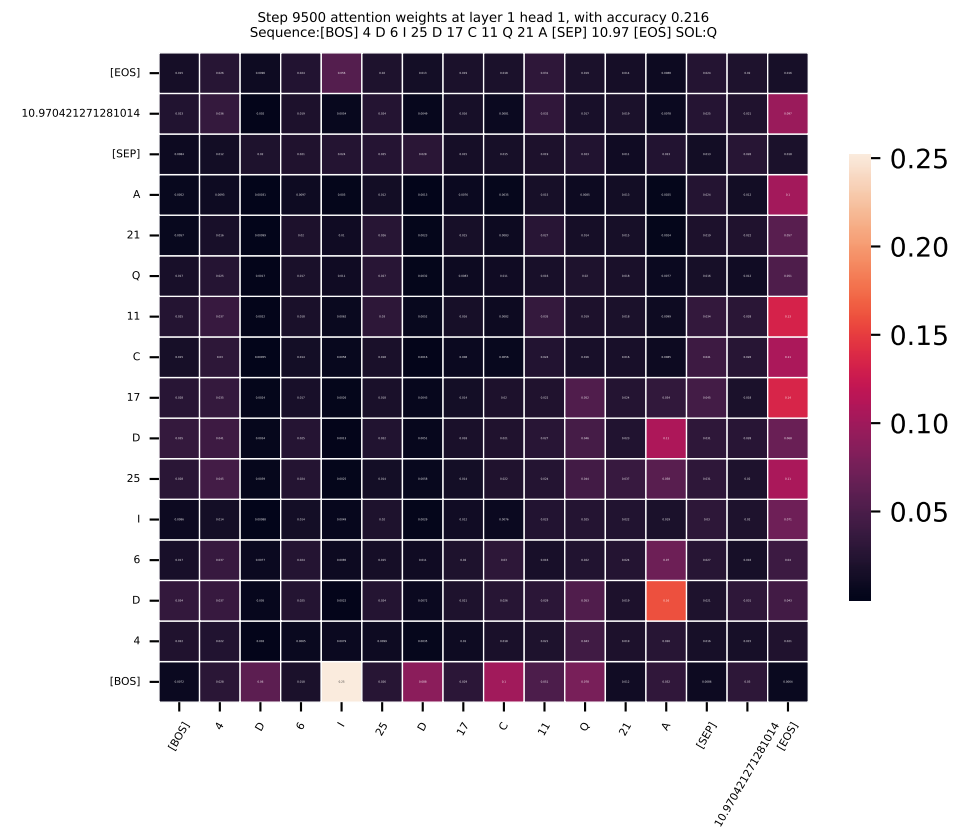
Step 9500 attention weights at layer 1 head 1, with accuracy 0.216
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I
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4
[BOS]
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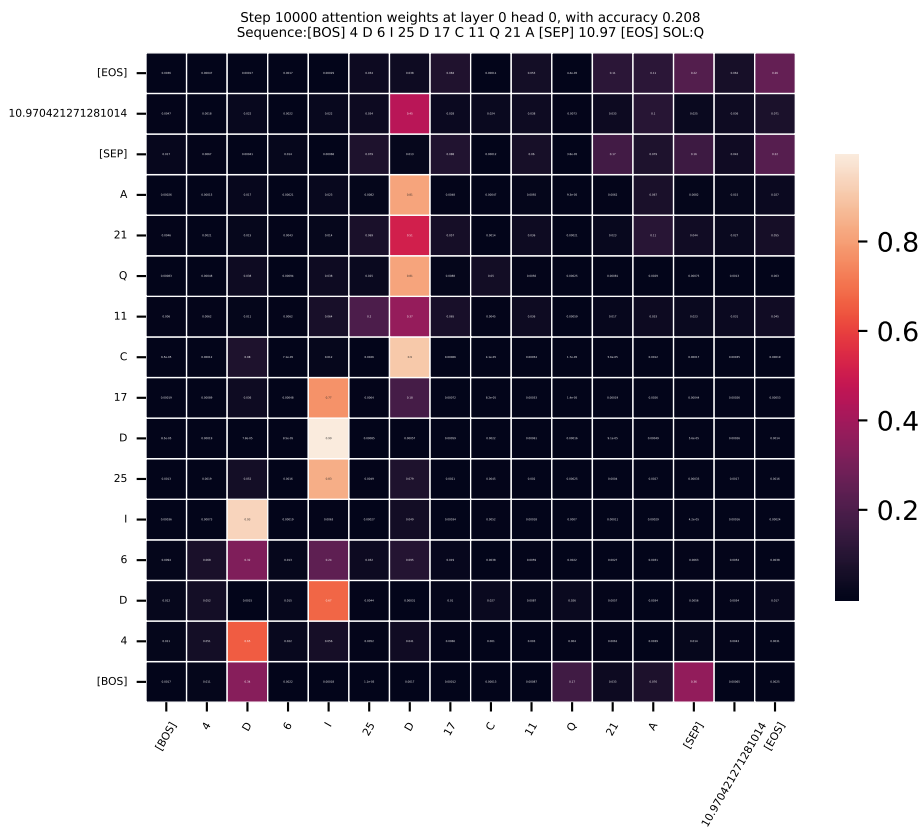
Step 10000 attention weights at layer 0 head 0, with accuracy 0.208
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[EOS]
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[SEP]
A
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C
17
D
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I
6
D
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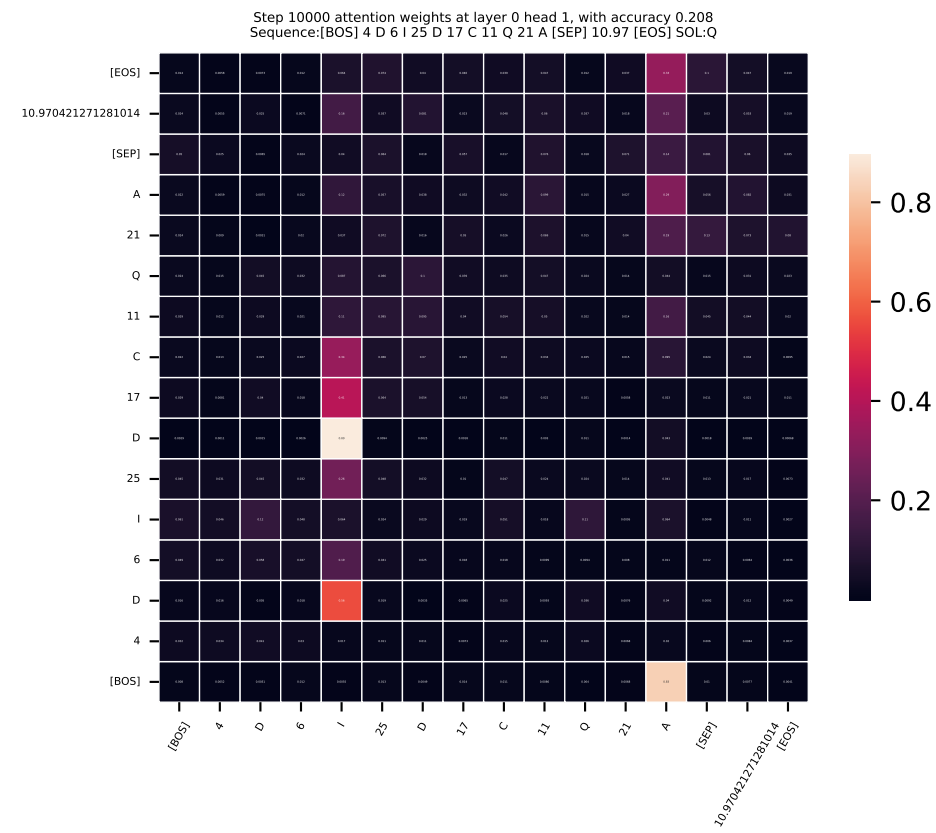
Step 10000 attention weights at layer 0 head 1, with accuracy 0.208
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Q
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C
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I
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D
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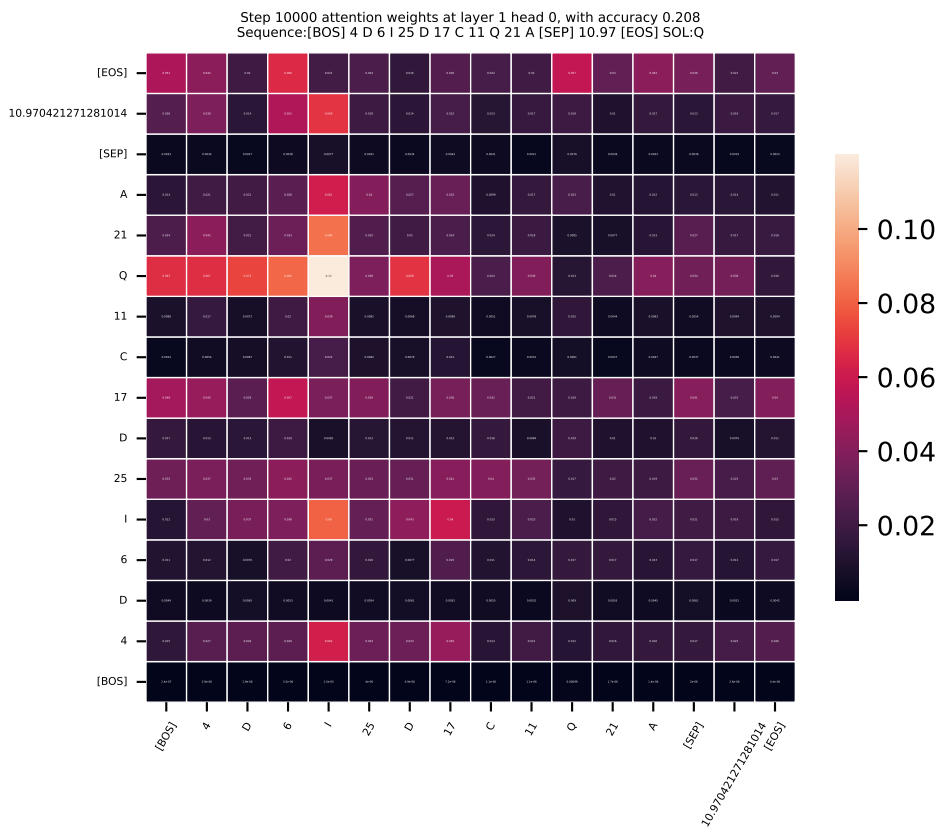
Step 10000 attention weights at layer 1 head 0, with accuracy 0.208
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I
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D
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[BOS]
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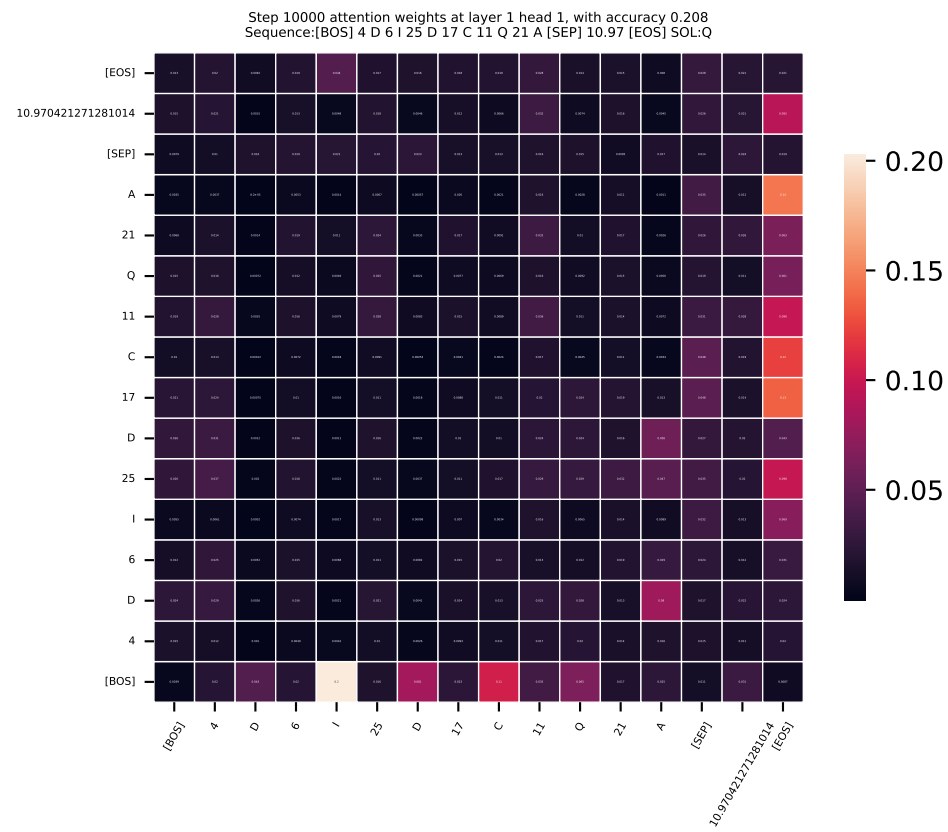
Step 10000 attention weights at layer 1 head 1, with accuracy 0.208
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[EOS]
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A
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Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
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D
6
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Q
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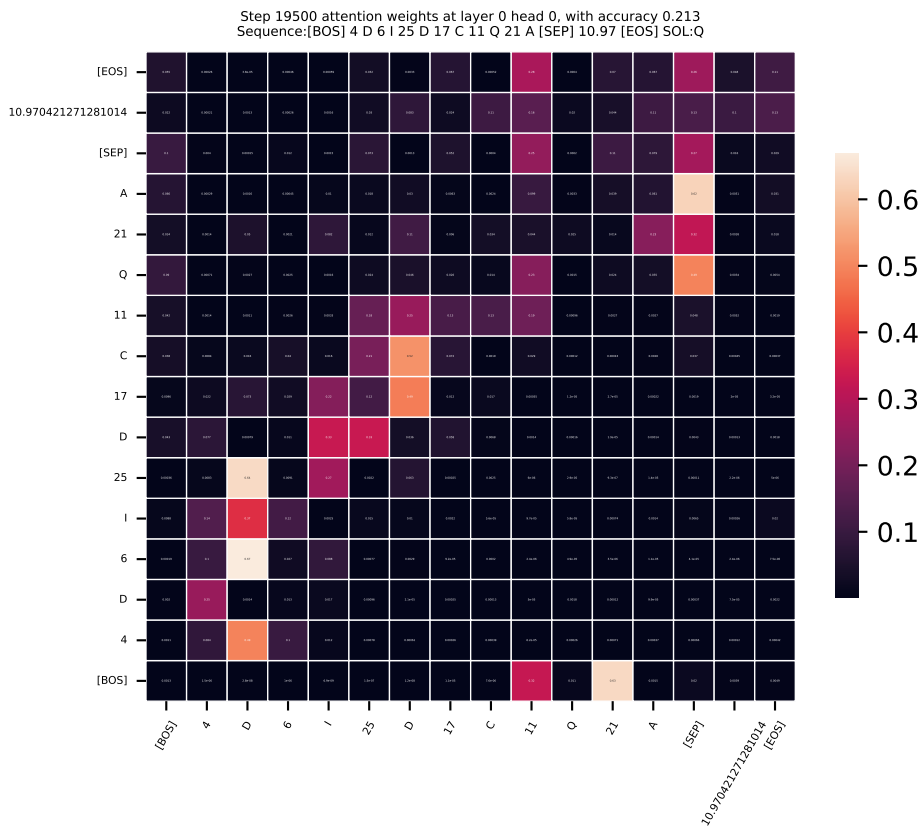
Step 19500 attention weights at layer 0 head 0, with accuracy 0.213
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[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
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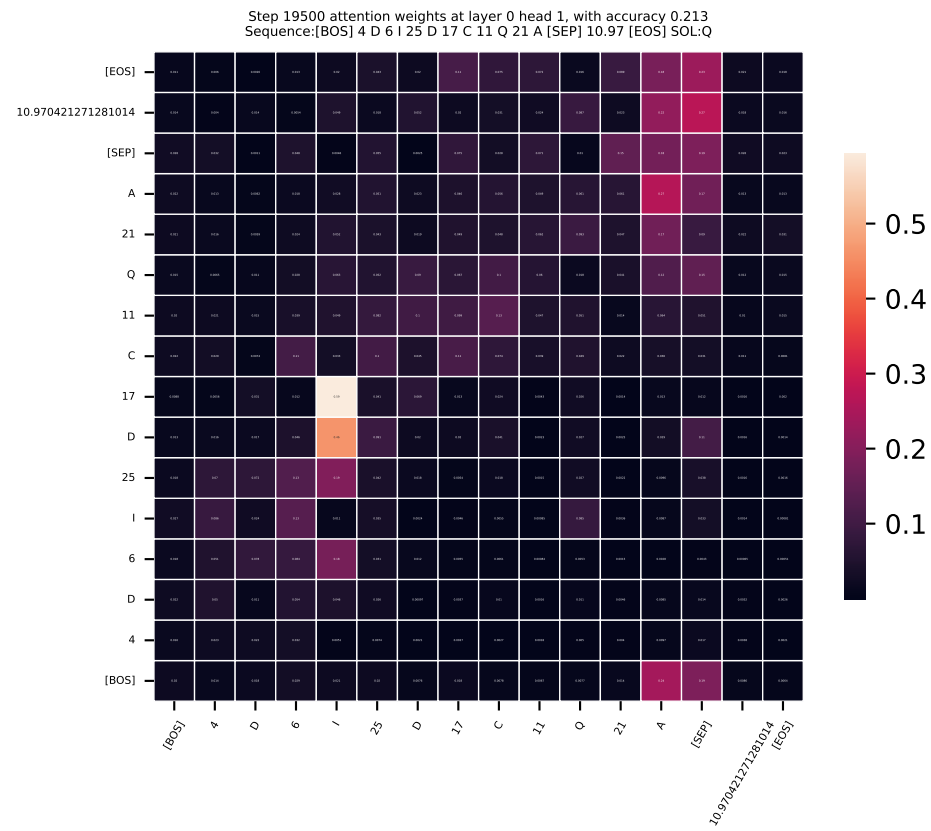
0.4
0.3
0.2
0.1


Step 19500 attention weights at layer 0 head 1, with accuracy 0.213
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[EOS]
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C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
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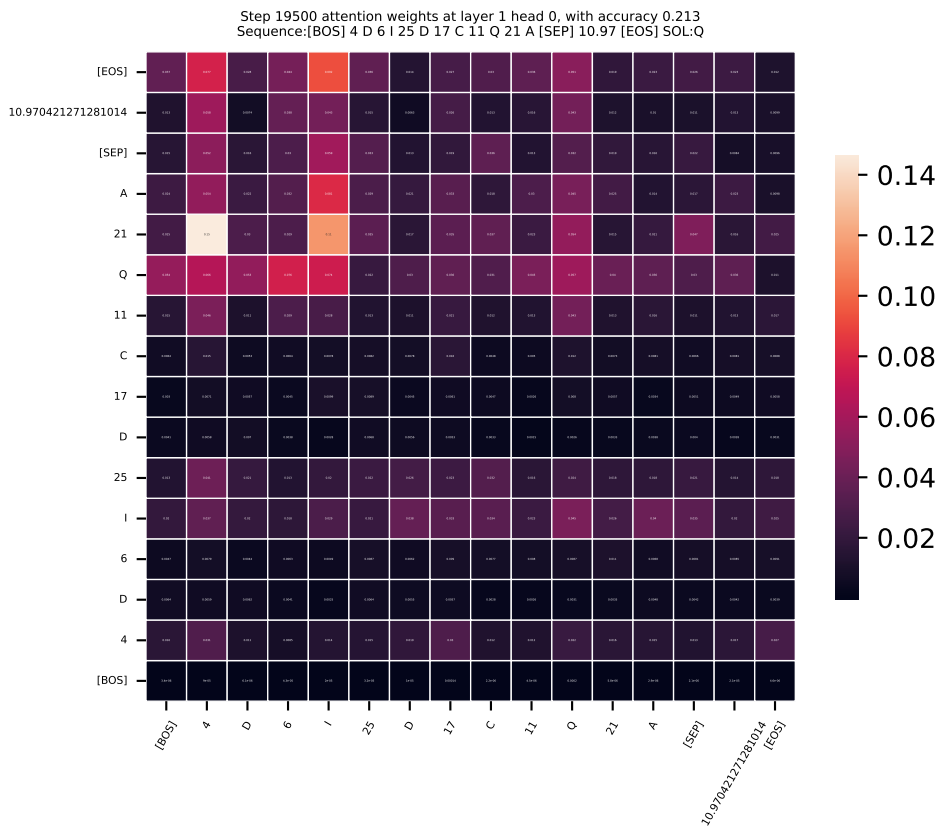
0.1


Step 19500 attention weights at layer 1 head 0, with accuracy 0.213
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[EOS]
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[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
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D
6
I
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17
C
11
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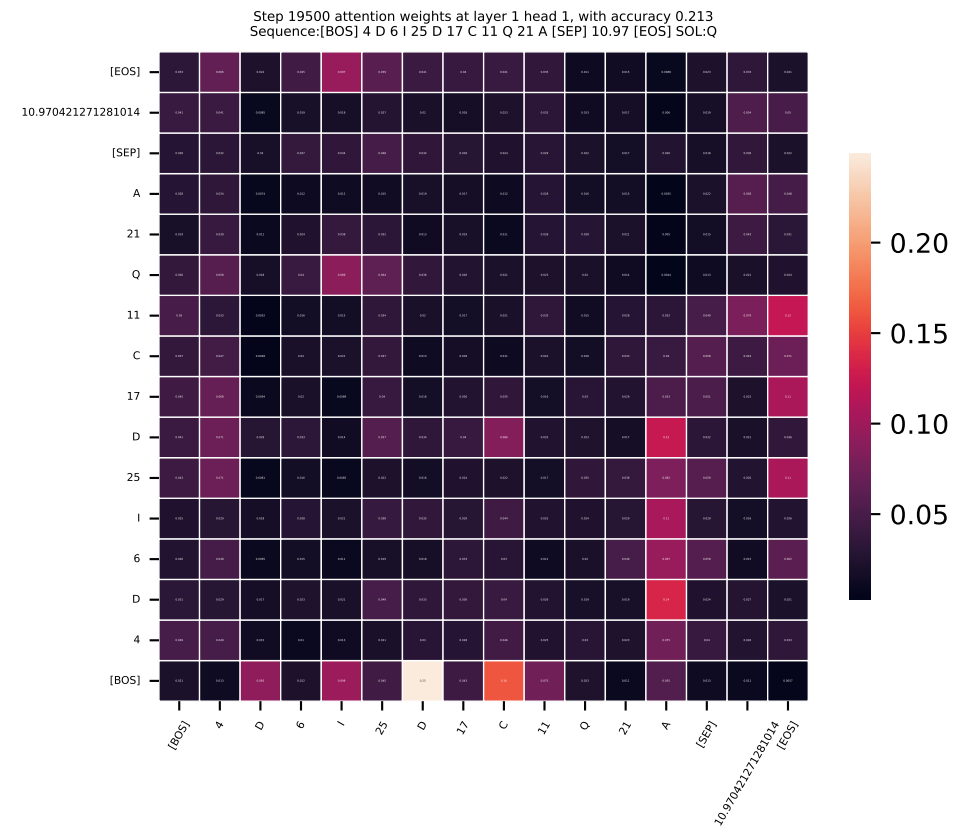
Step 19500 attention weights at layer 1 head 1, with accuracy 0.213
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
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C
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D
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I
6
D
4
[BOS]
[BOS]
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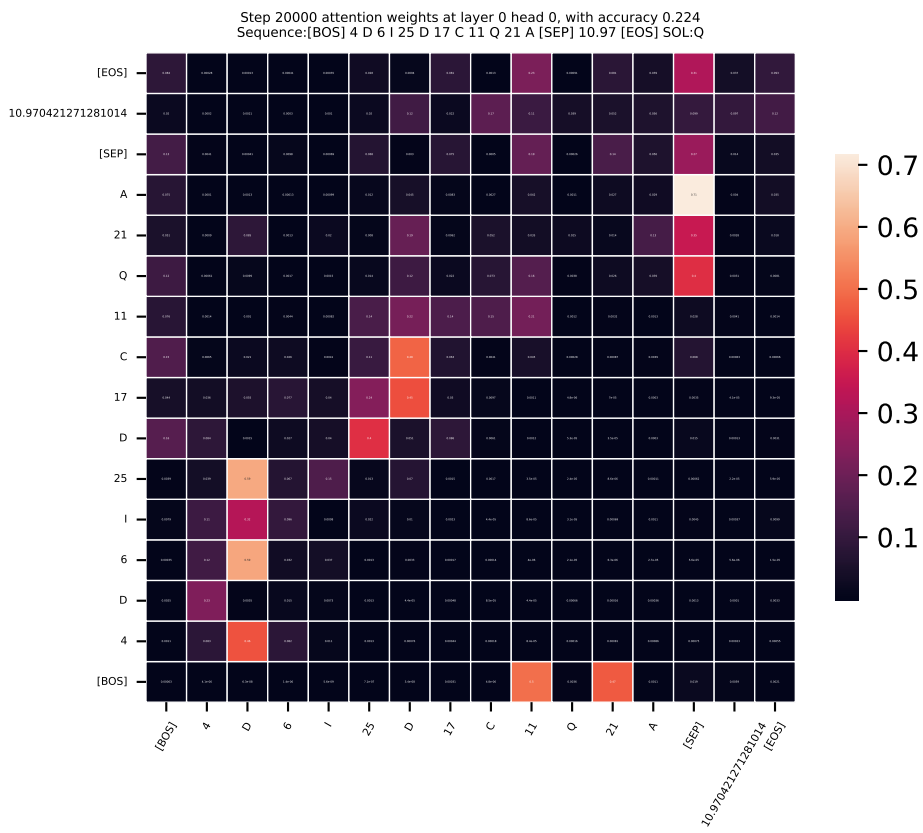
Step 20000 attention weights at layer 0 head 0, with accuracy 0.224
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
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0.6
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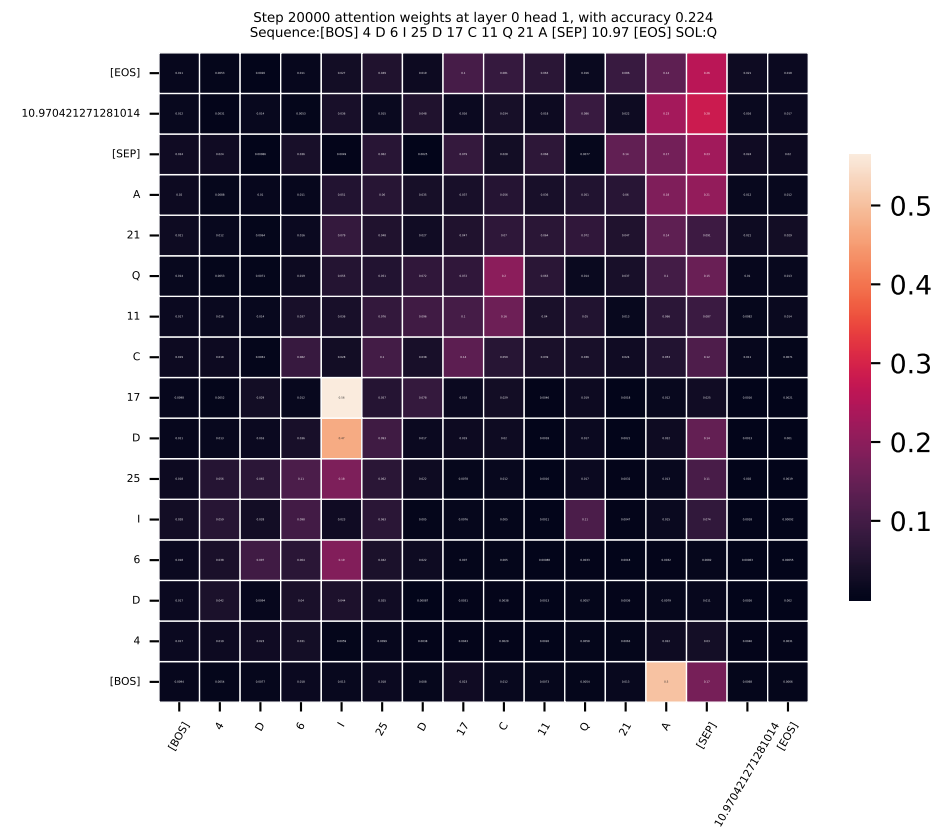
0.3
0.2
0.1


Step 20000 attention weights at layer 0 head 1, with accuracy 0.224
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
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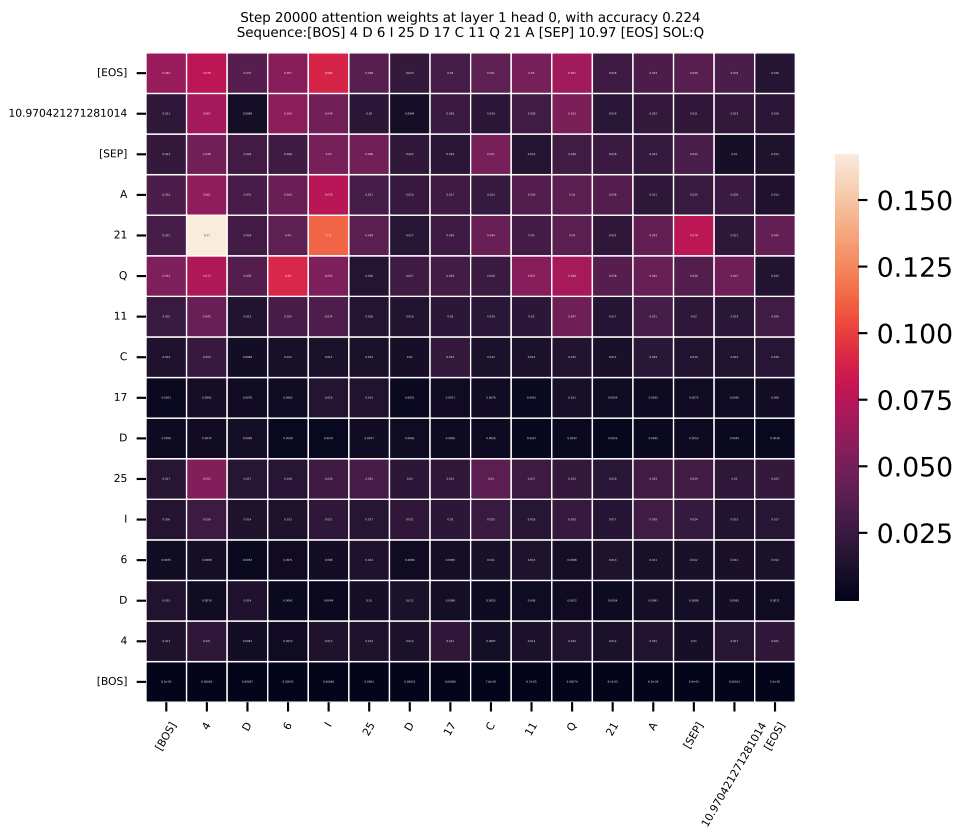
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
0.5
0.4
0.3
0.2
0.1


Step 20000 attention weights at layer 1 head 0, with accuracy 0.224
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
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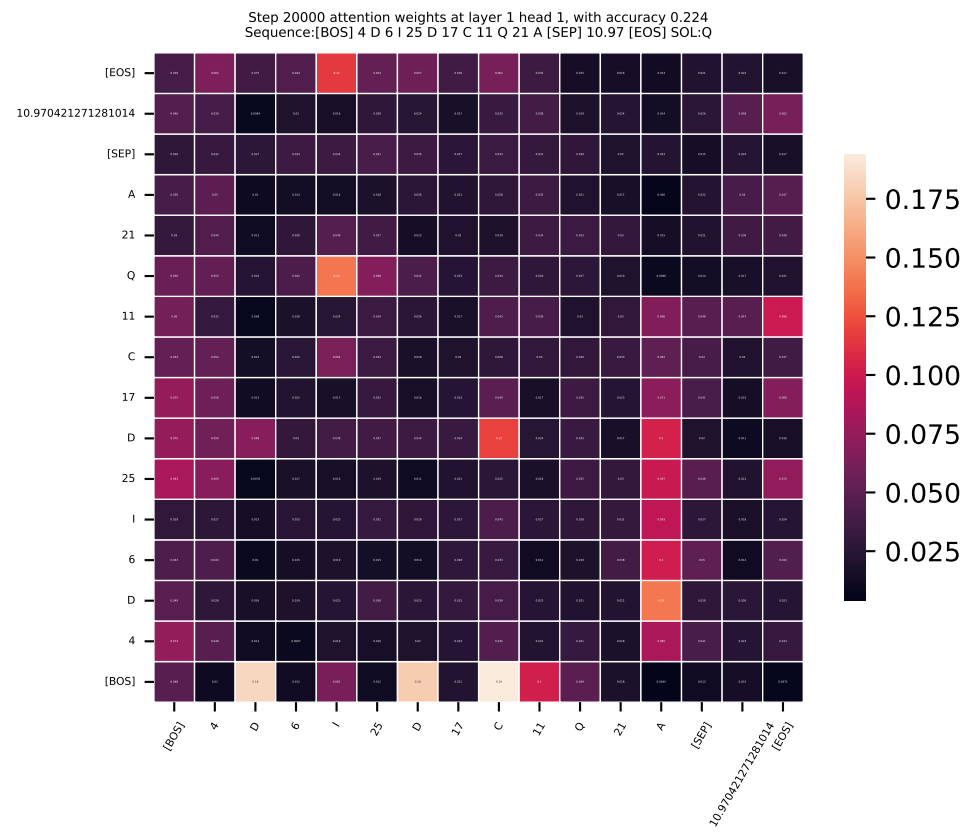
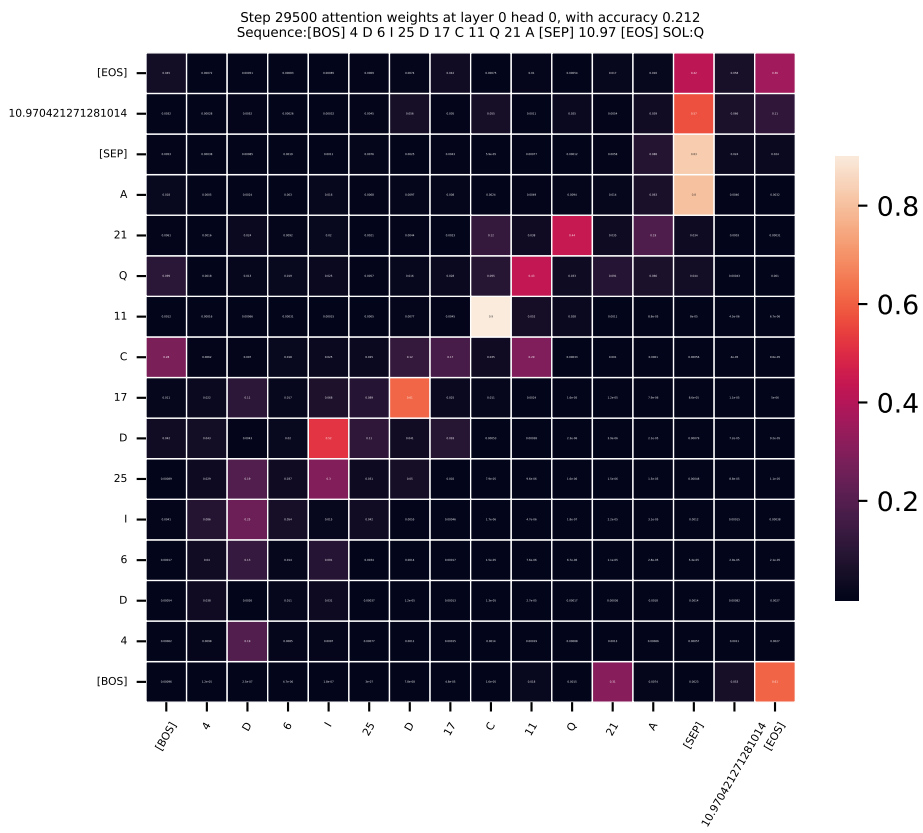
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
0.150
0.125
0.100
0.075
0.050
0.025


Step 20000 attention weights at layer 1 head 1, with accuracy 0.224
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
0.175
0.150
0.125
0.100
0.075
0.050
0.025


Step 29500 attention weights at layer 0 head 0, with accuracy 0.212
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
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[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
4
D
6
I
25
D
17
C
11
Q
21
A
[SEP]
10.970421271281014
[EOS]
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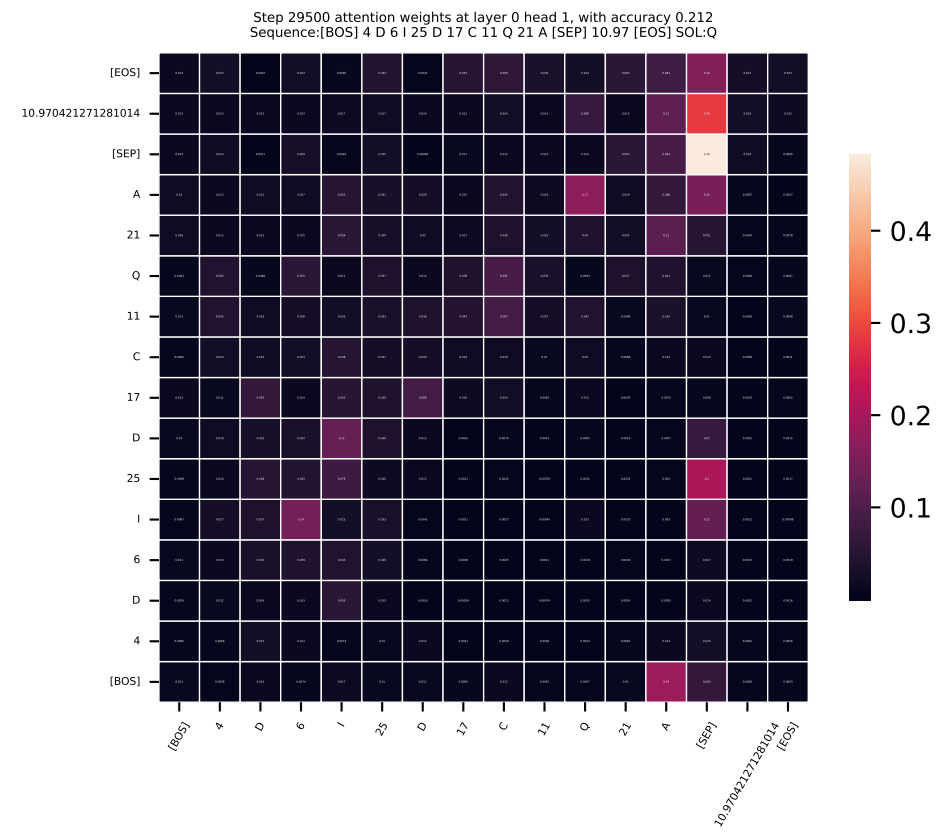
0.4
0.2


Step 29500 attention weights at layer 0 head 1, with accuracy 0.212
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
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[SEP]
A
21
Q
11
C
17
D
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I
6
D
4
[BOS]
[BOS]
4
D
6
I
25
D
17
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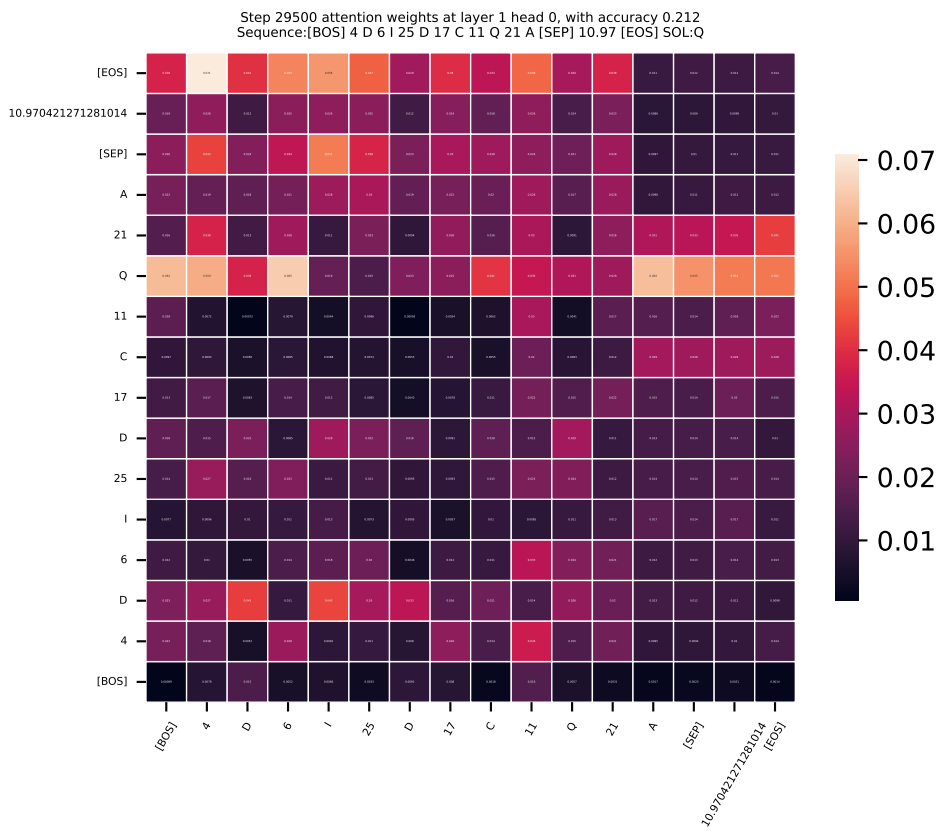
Step 29500 attention weights at layer 1 head 0, with accuracy 0.212
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[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
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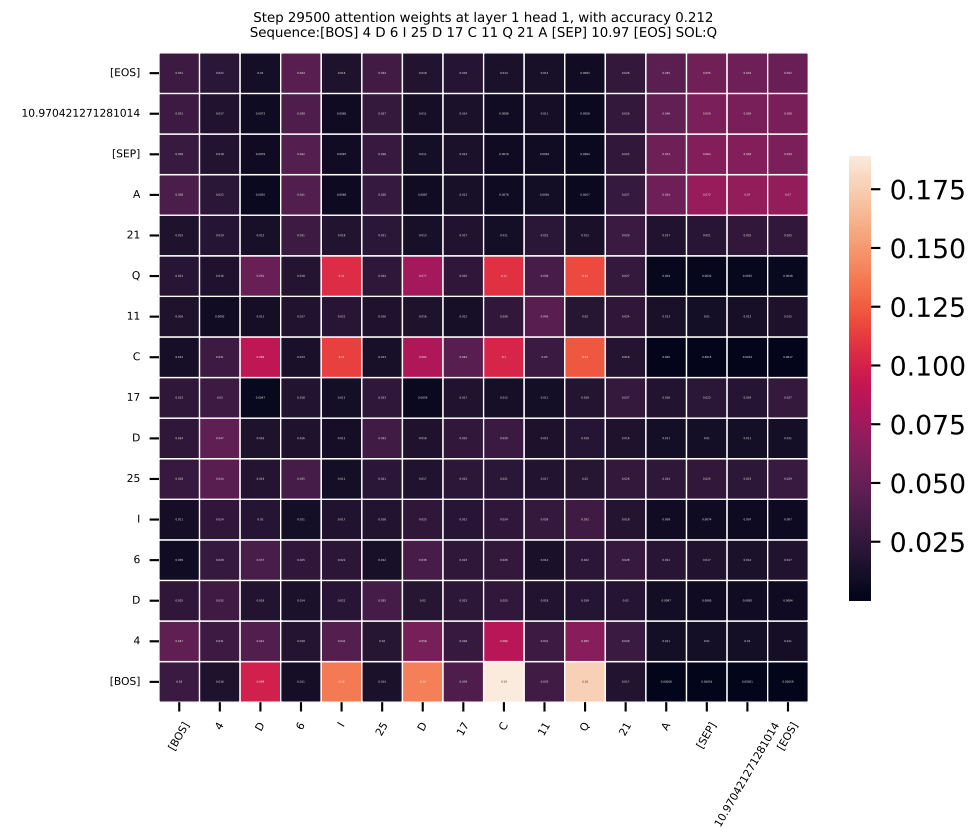
Step 29500 attention weights at layer 1 head 1, with accuracy 0.212
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[EOS]
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[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
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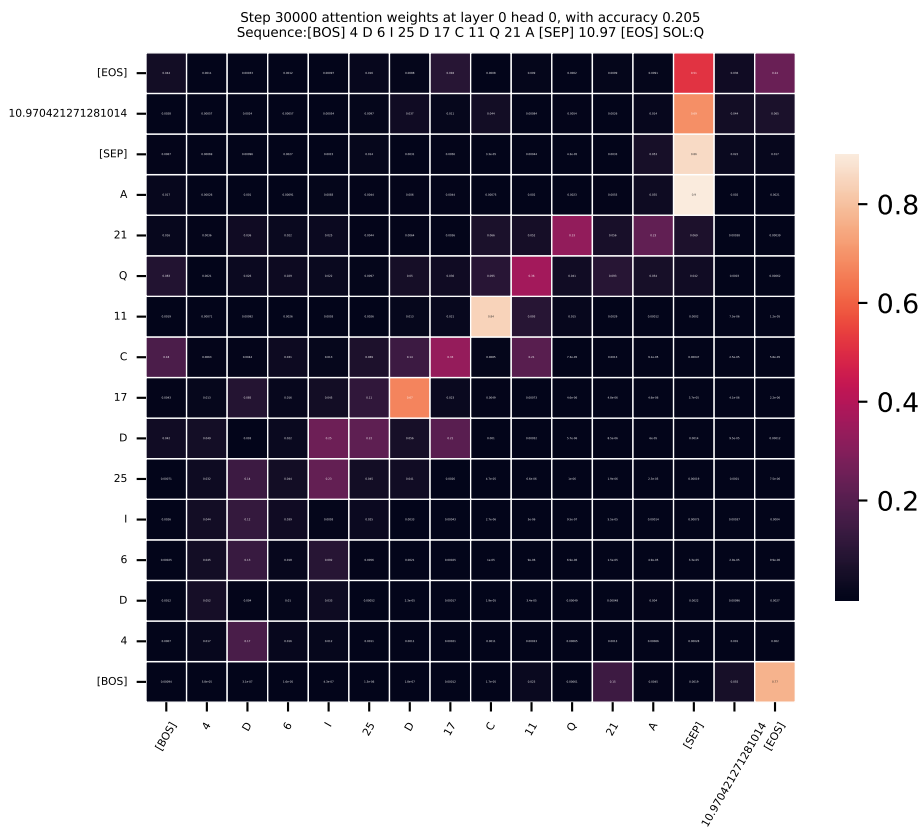
0.025


Step 30000 attention weights at layer 0 head 0, with accuracy 0.205
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
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[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
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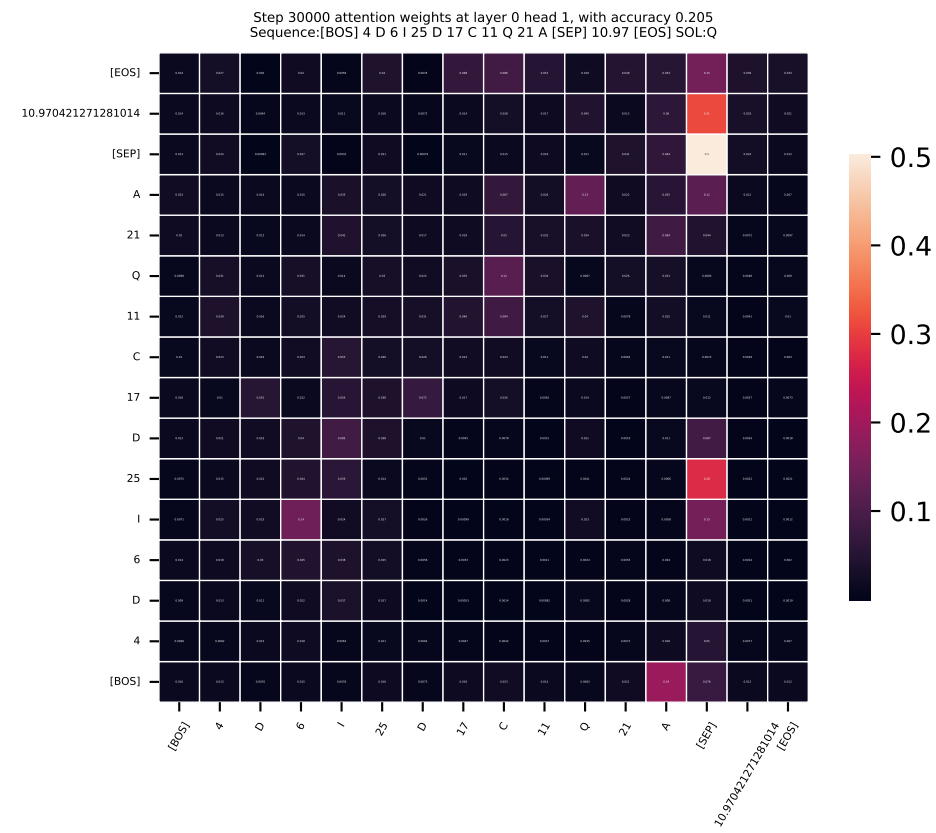
Step 30000 attention weights at layer 0 head 1, with accuracy 0.205
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
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[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
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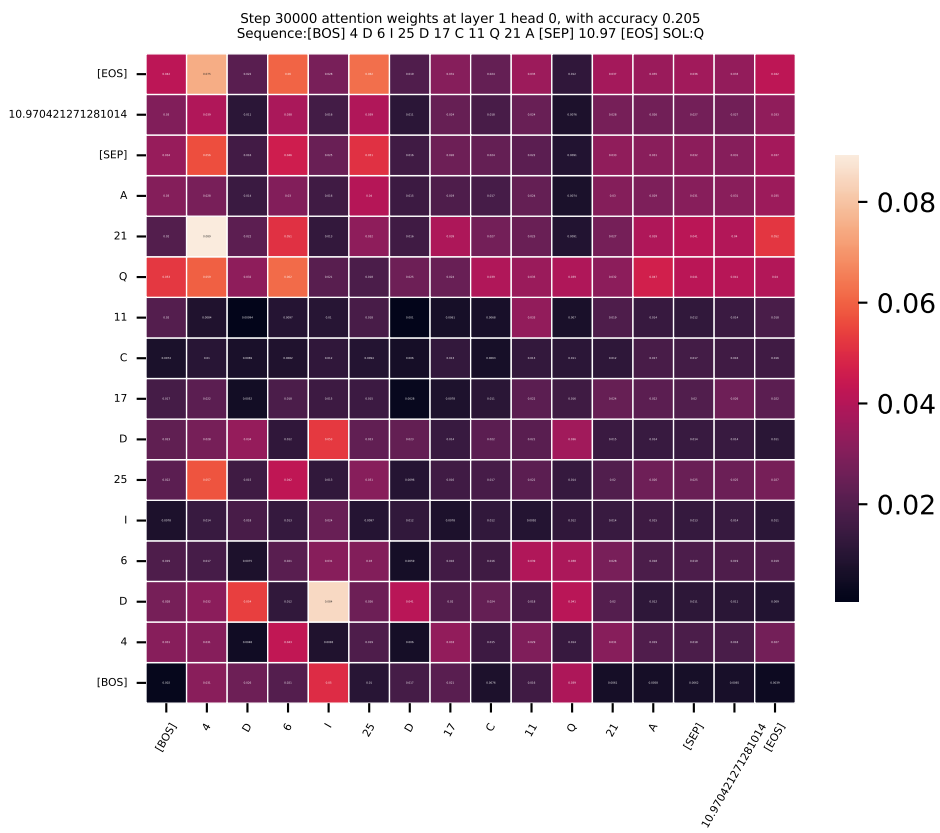
0.2
0.1


Step 30000 attention weights at layer 1 head 0, with accuracy 0.205
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[EOS]
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[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
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D
6
I
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Q
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A
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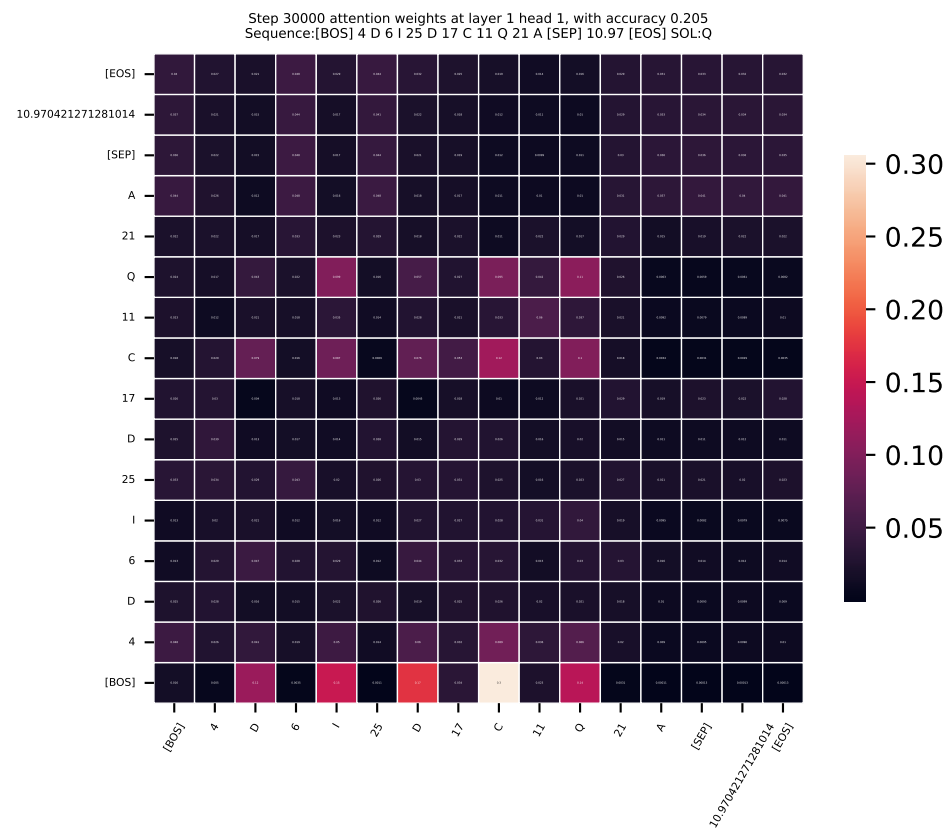
0.02


Step 30000 attention weights at layer 1 head 1, with accuracy 0.205
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
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[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
4
D
6
I
25
D
17
C
11
Q
21
A
[SEP]
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[EOS]
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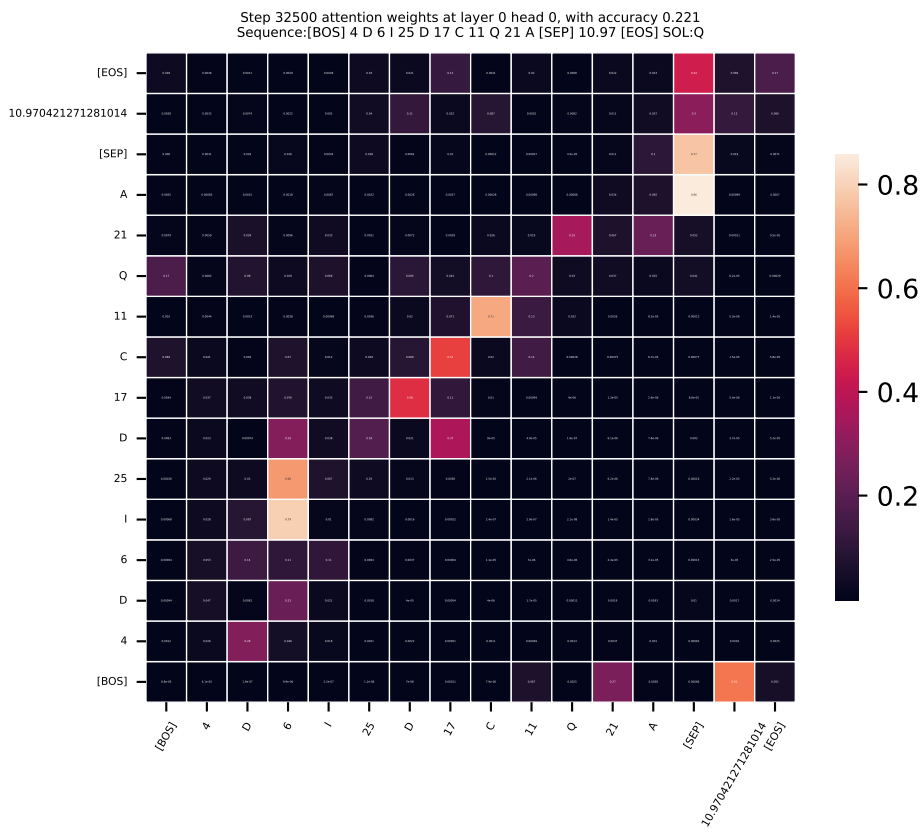
0.10
0.05


Step 32500 attention weights at layer 0 head 0, with accuracy 0.221
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
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[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
4
D
6
I
25
D
17
C
11
Q
21
A
[SEP]
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[EOS]
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0.6
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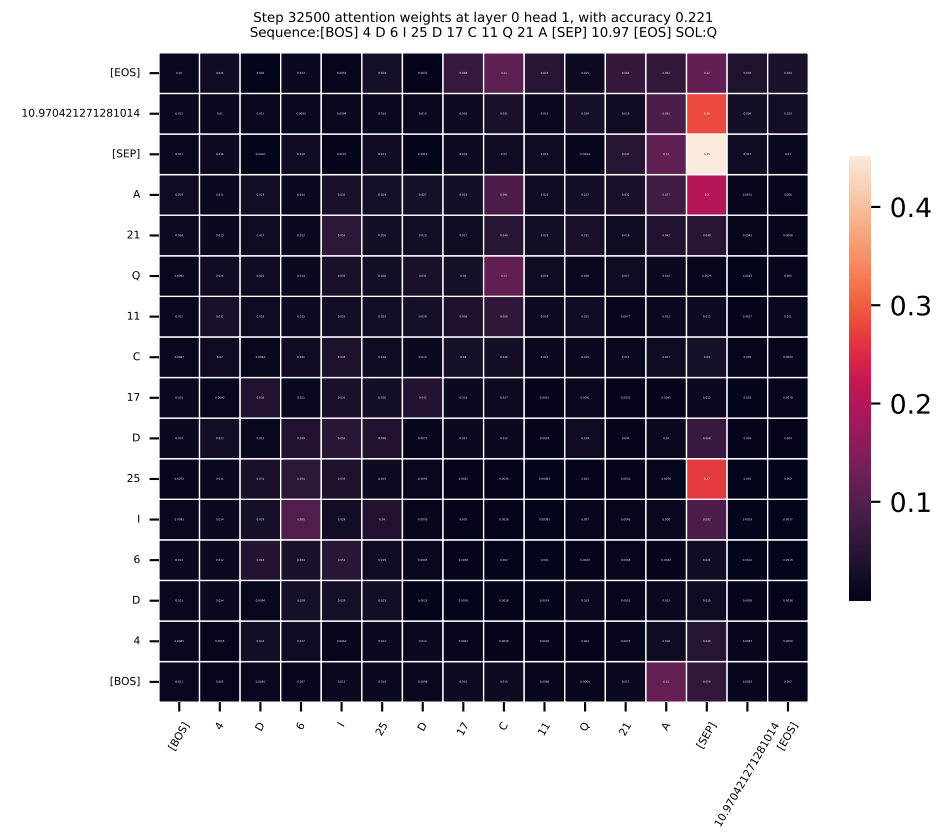
Step 32500 attention weights at layer 0 head 1, with accuracy 0.221
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[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
4
D
6
I
25
D
17
C
11
Q
21
A
[SEP]
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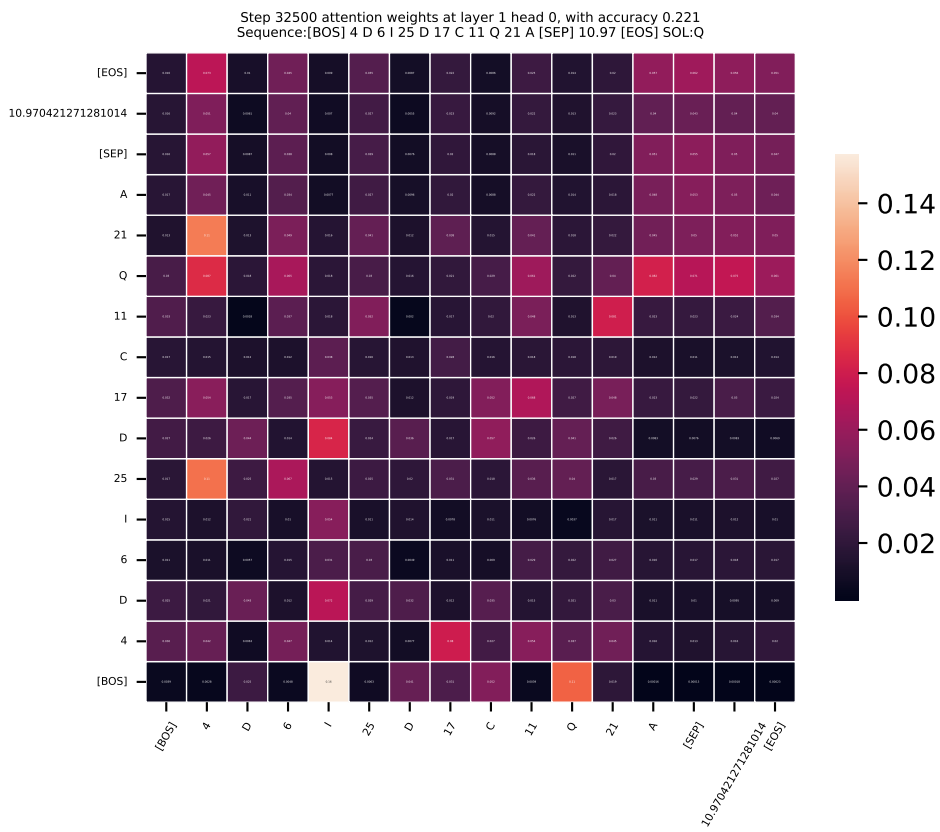
Step 32500 attention weights at layer 1 head 0, with accuracy 0.221
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
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[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
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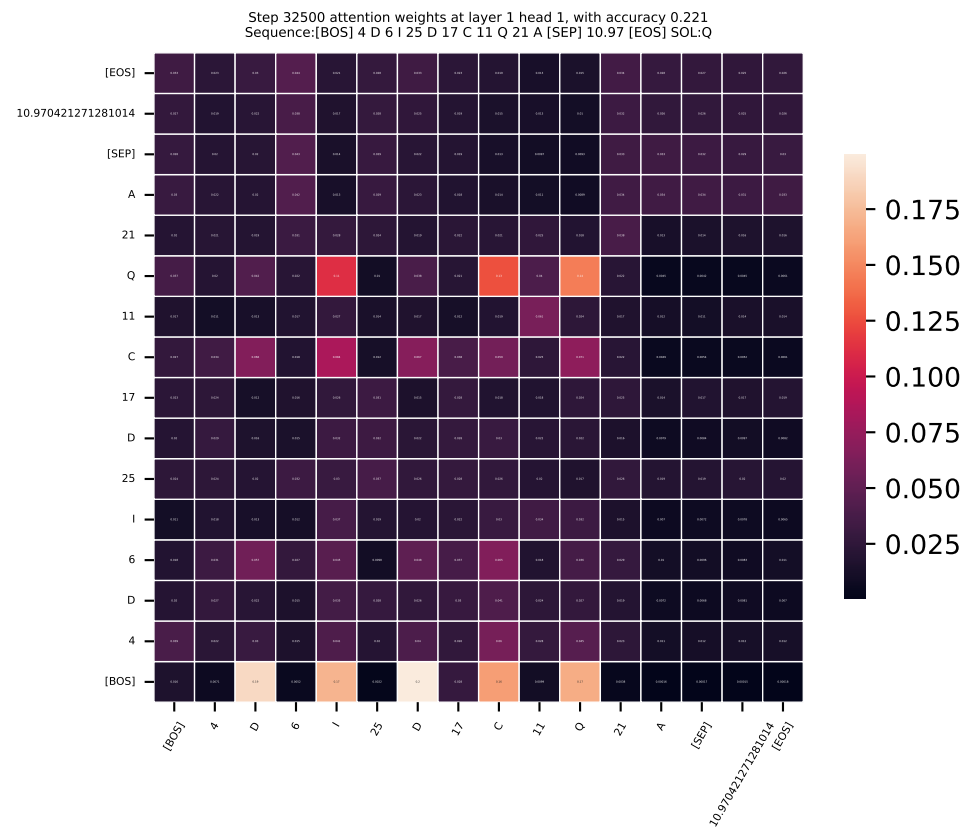
0.12
0.10
0.08
0.06
0.04
0.02


Step 32500 attention weights at layer 1 head 1, with accuracy 0.221
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
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[SEP]
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21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
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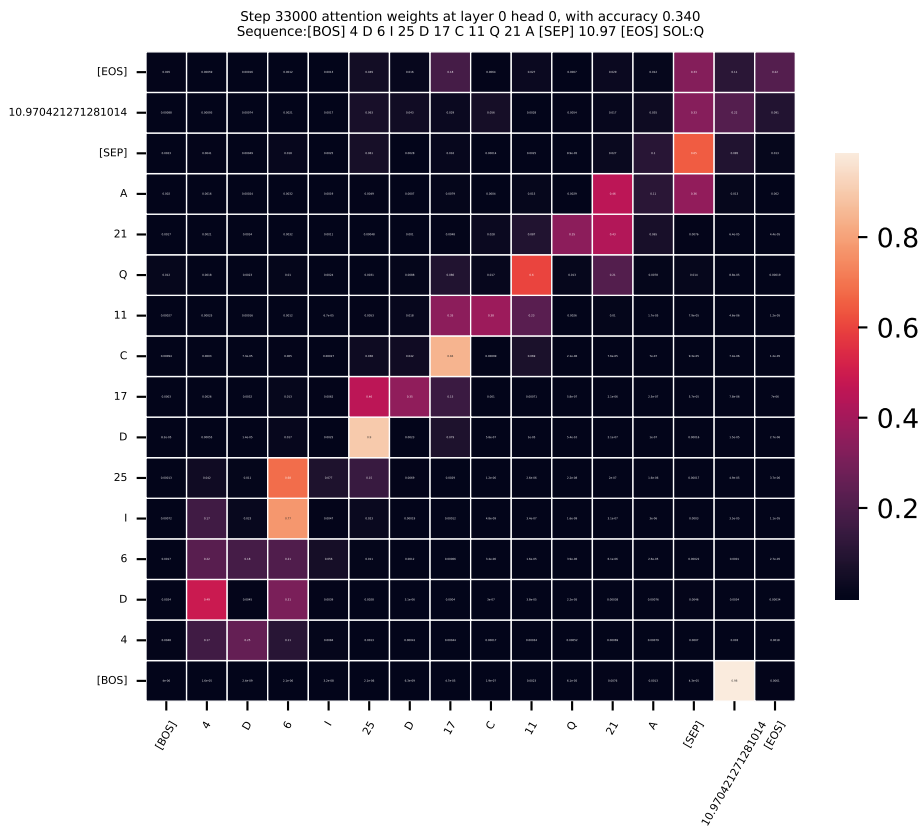
0.025


Step 33000 attention weights at layer 0 head 0, with accuracy 0.340
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
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[SEP]
A
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Q
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C
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D
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I
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D
4
[BOS]
[BOS]
4
D
6
I
25
D
17
C
11
Q
21
A
[SEP]
10.970421271281014
[EOS]
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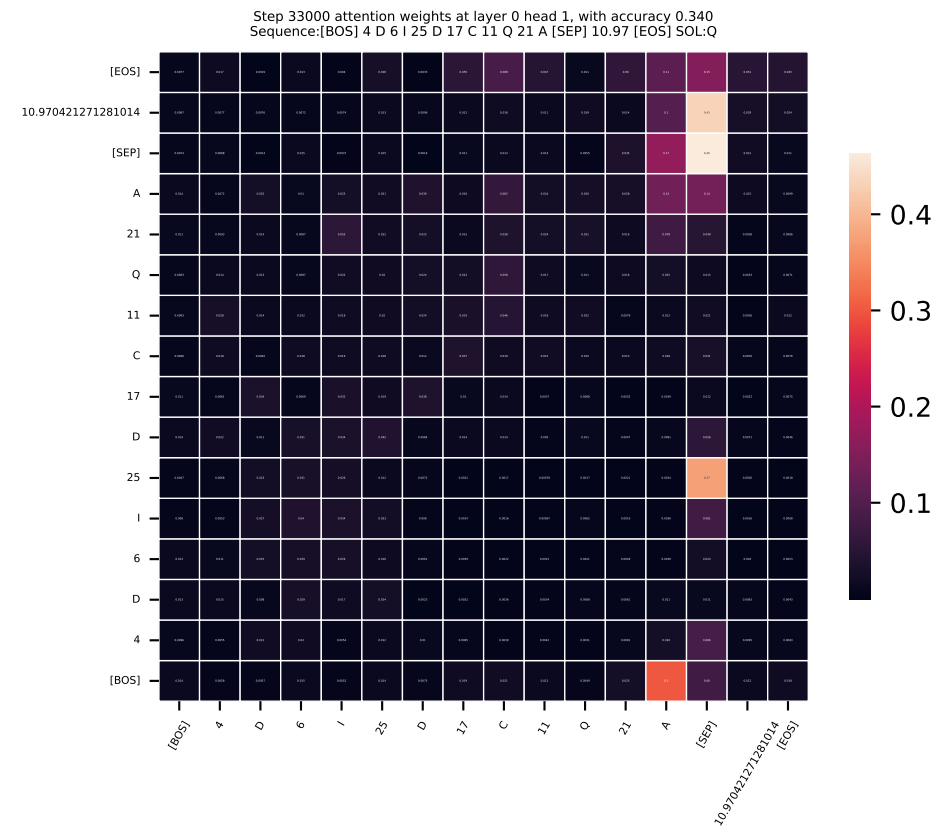
0.6
0.4
0.2


Step 33000 attention weights at layer 0 head 1, with accuracy 0.340
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A
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Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
4
D
6
I
25
D
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Q
21
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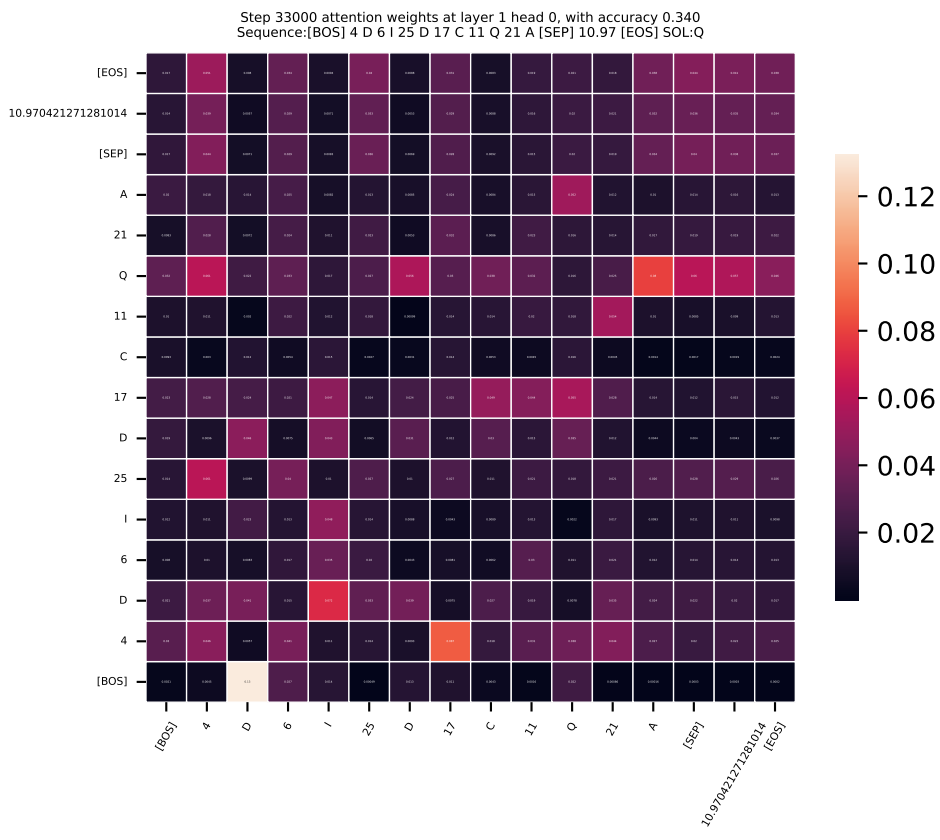
Step 33000 attention weights at layer 1 head 0, with accuracy 0.340
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
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Q
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C
17
D
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D
4
[BOS]
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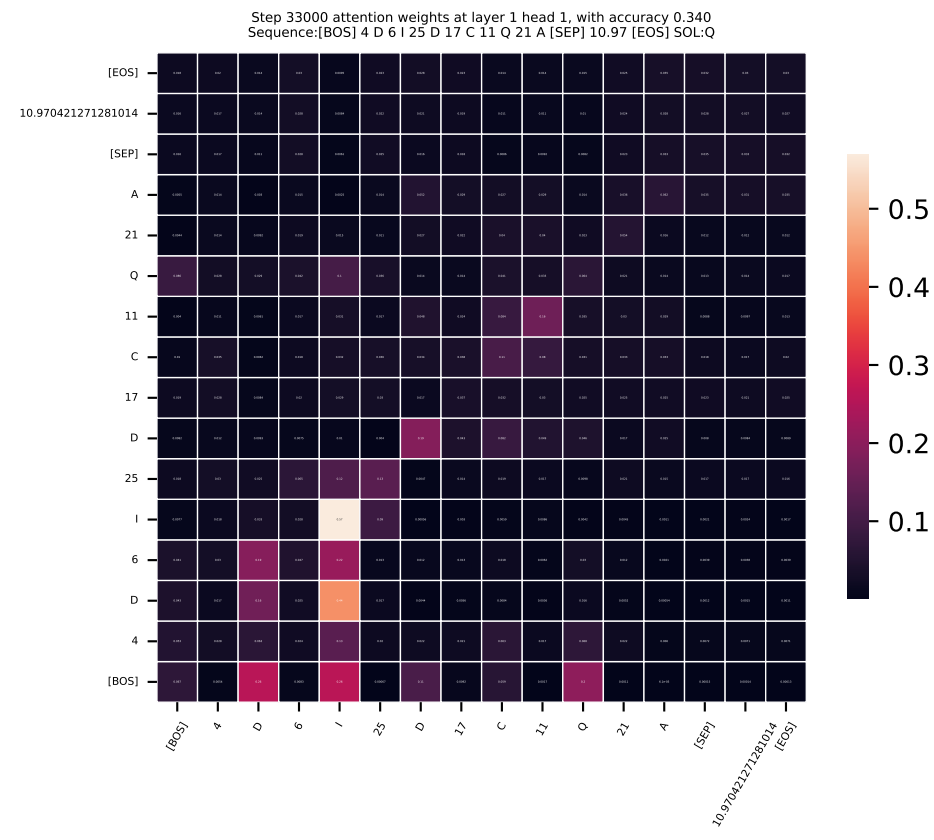
Step 33000 attention weights at layer 1 head 1, with accuracy 0.340
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
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Q
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C
17
D
25
I
6
D
4
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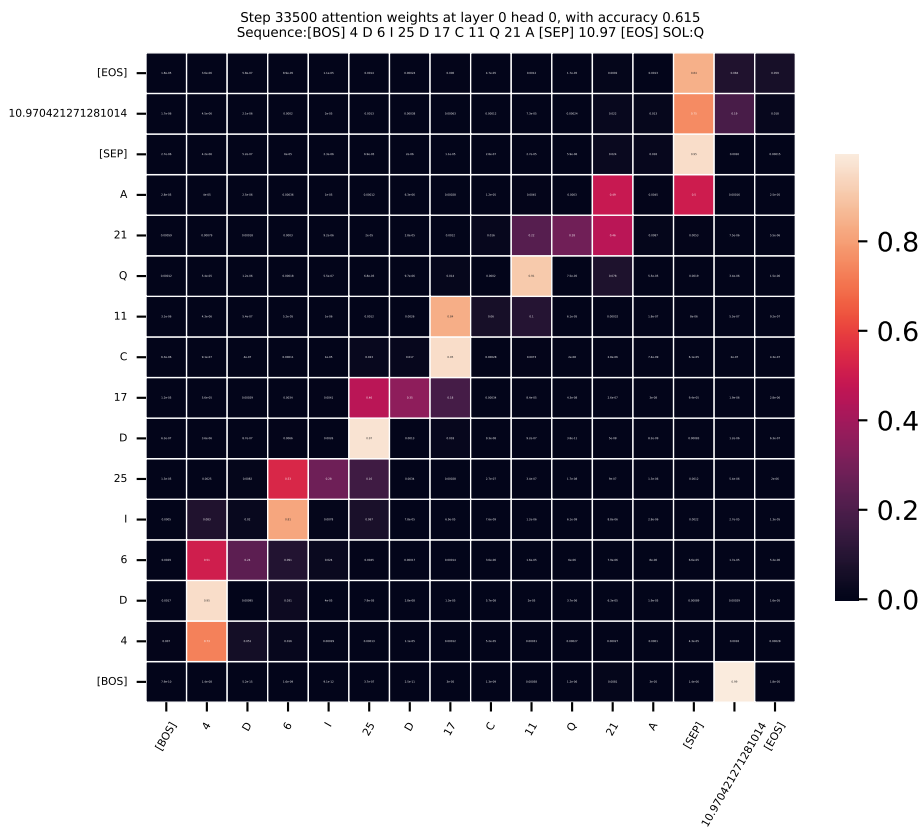
Step 33500 attention weights at layer 0 head 0, with accuracy 0.615
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
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Q
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C
17
D
25
I
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D
4
[BOS]
[BOS]
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D
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I
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D
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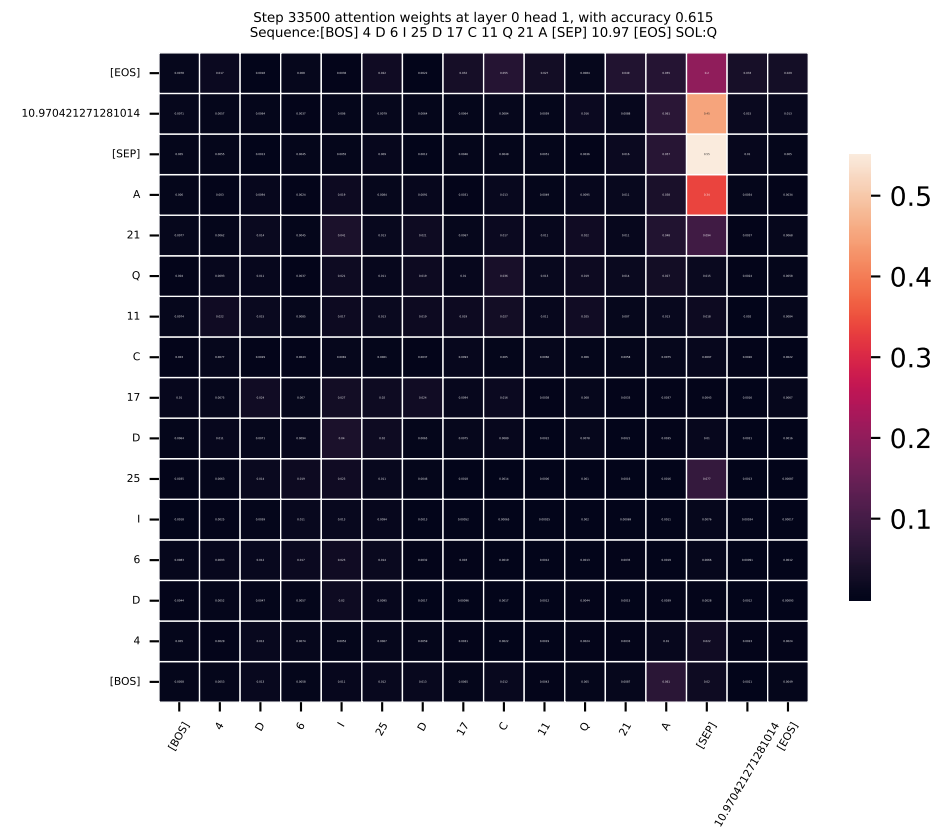
Step 33500 attention weights at layer 0 head 1, with accuracy 0.615
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[EOS]
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[SEP]
A
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Q
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C
17
D
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I
6
D
4
[BOS]
[BOS]
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21
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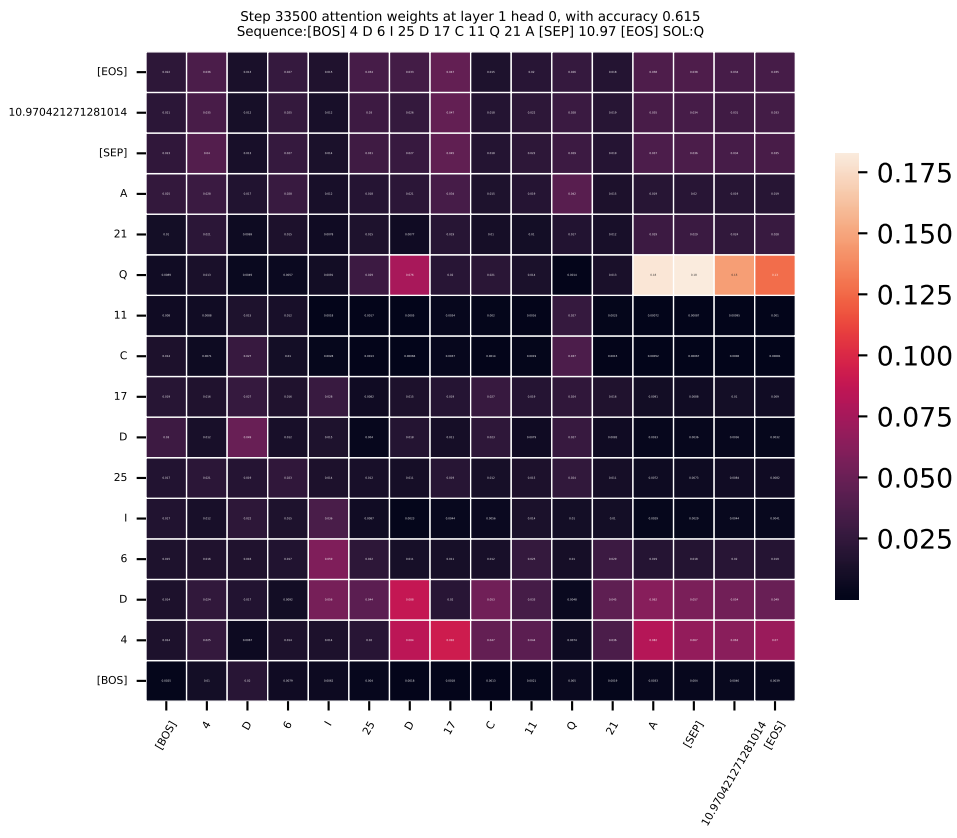
Step 33500 attention weights at layer 1 head 0, with accuracy 0.615
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
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A
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Q
11
C
17
D
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I
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D
4
[BOS]
[BOS]
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D
6
I
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D
17
C
11
Q
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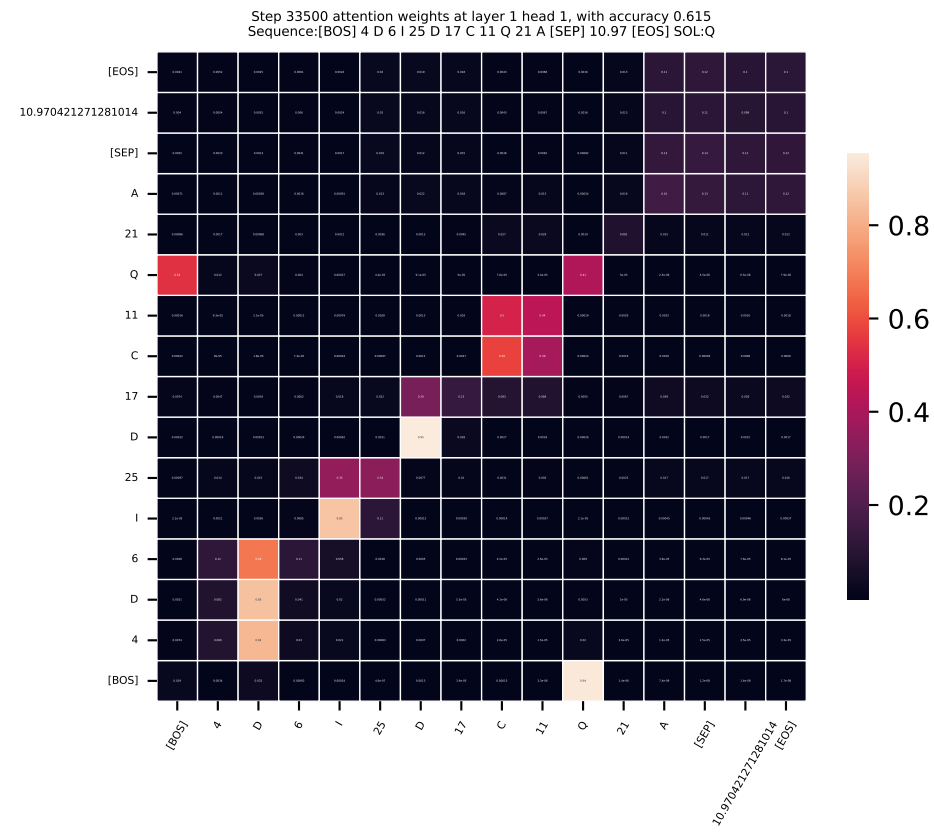
Step 33500 attention weights at layer 1 head 1, with accuracy 0.615
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[SEP]
A
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Q
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C
17
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I
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D
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[BOS]
[BOS]
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C
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Q
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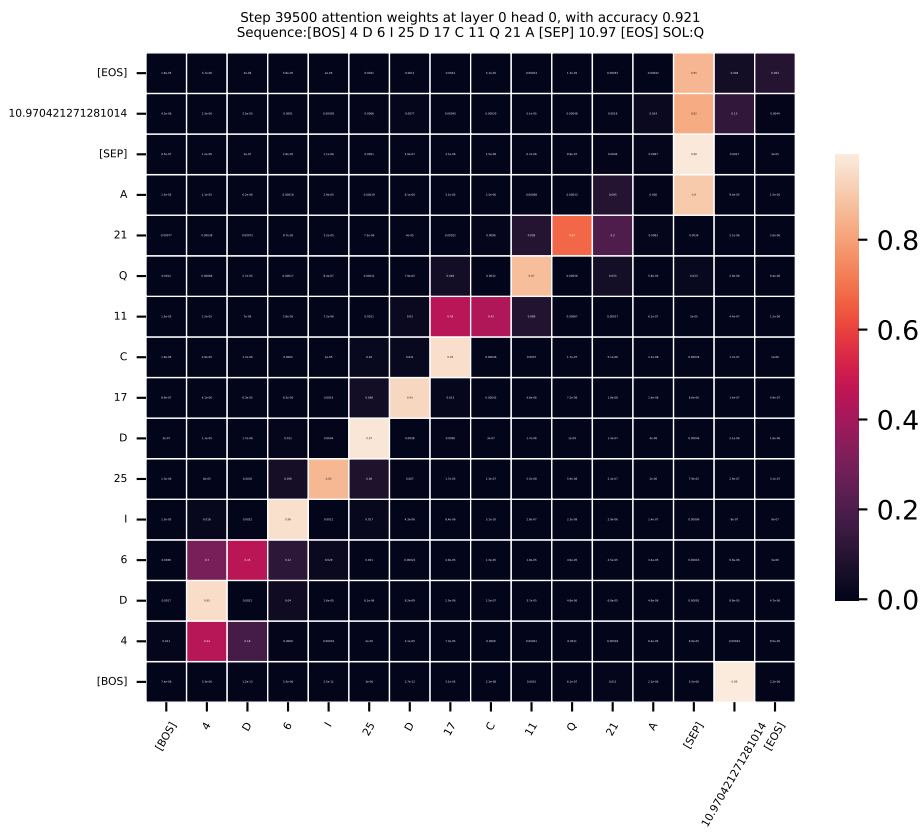
Step 39500 attention weights at layer 0 head 0, with accuracy 0.921
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
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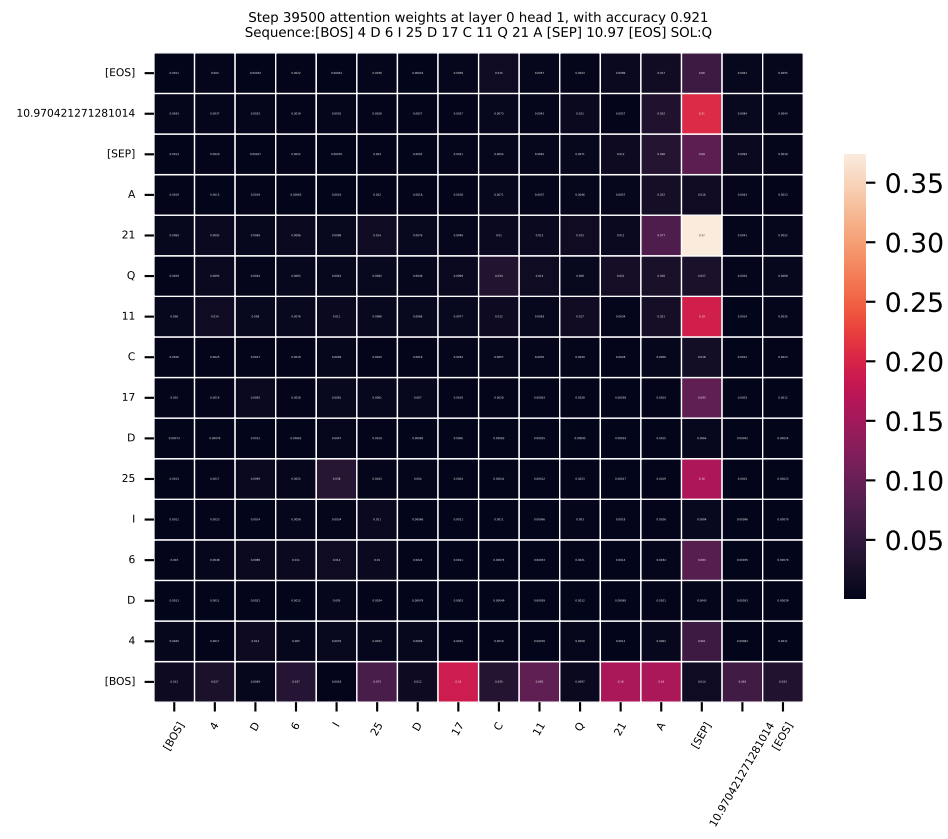
Step 39500 attention weights at layer 0 head 1, with accuracy 0.921
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
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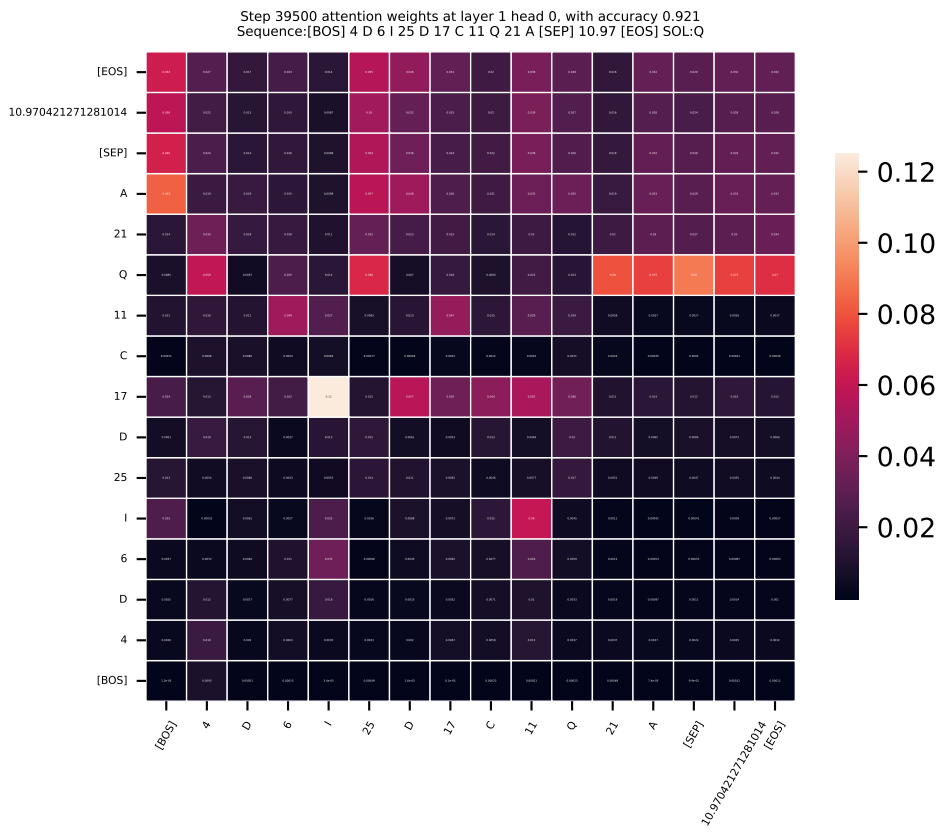
0.10
0.05


Step 39500 attention weights at layer 1 head 0, with accuracy 0.921
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
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I
6
D
4
[BOS]
[BOS]
4
D
6
I
25
D
17
C
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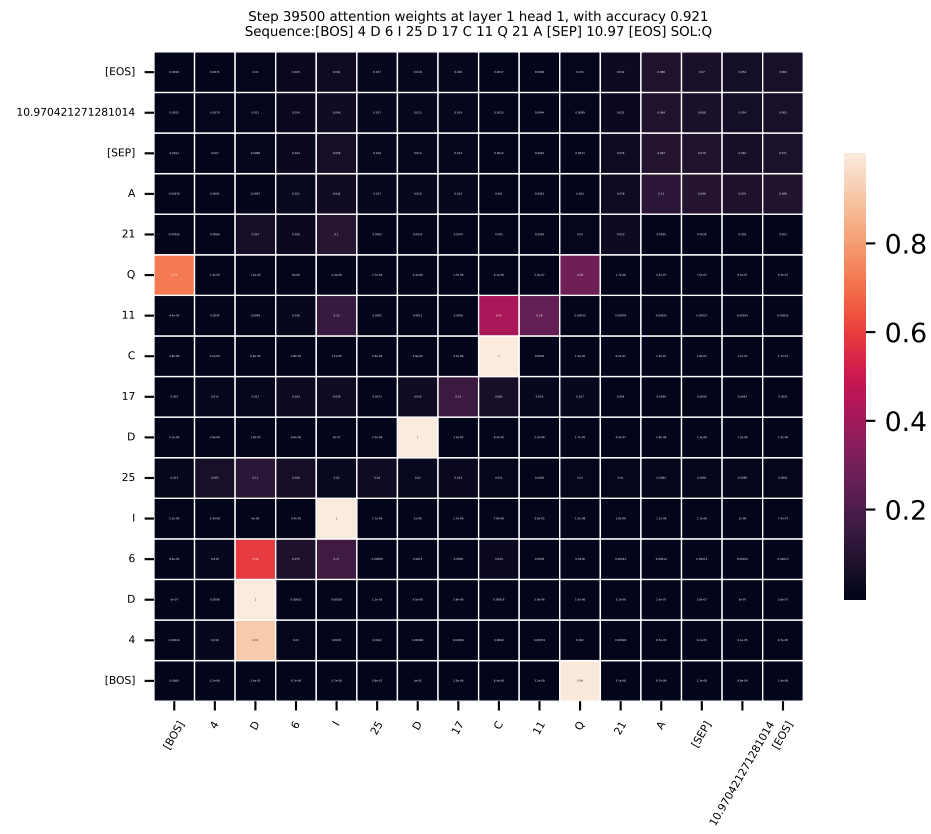
0.04
0.02


Step 39500 attention weights at layer 1 head 1, with accuracy 0.921
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
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D
6
I
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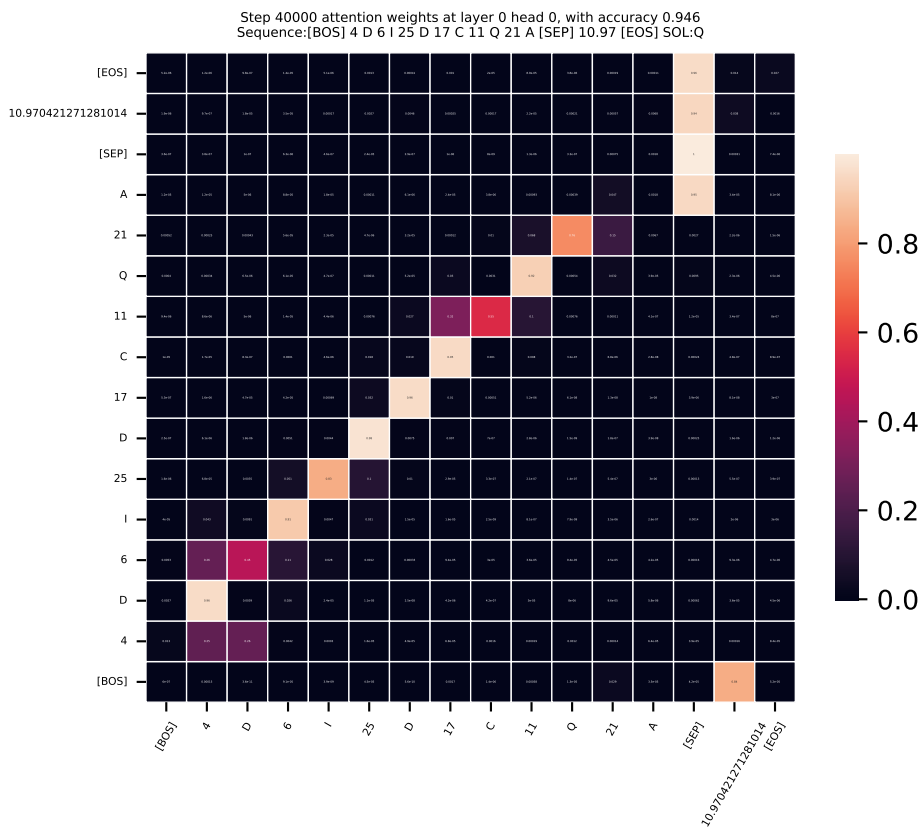
Step 40000 attention weights at layer 0 head 0, with accuracy 0.946
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[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
4
D
6
I
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D
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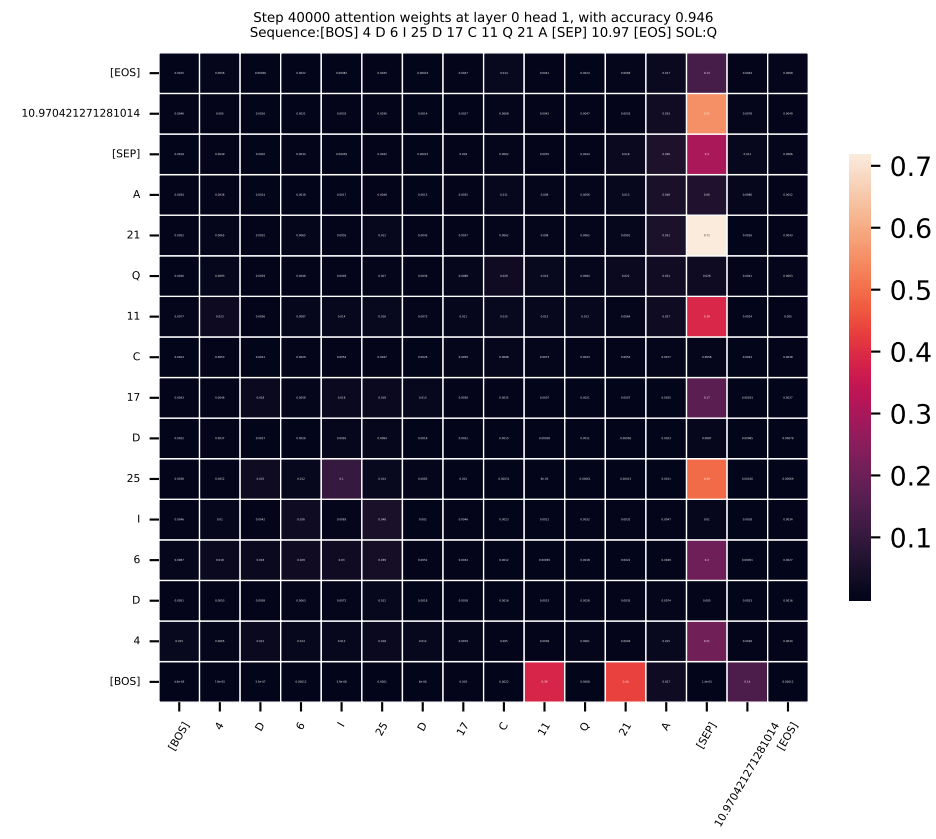
Step 40000 attention weights at layer 0 head 1, with accuracy 0.946
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
4
D
6
I
25
D
17
C
11
Q
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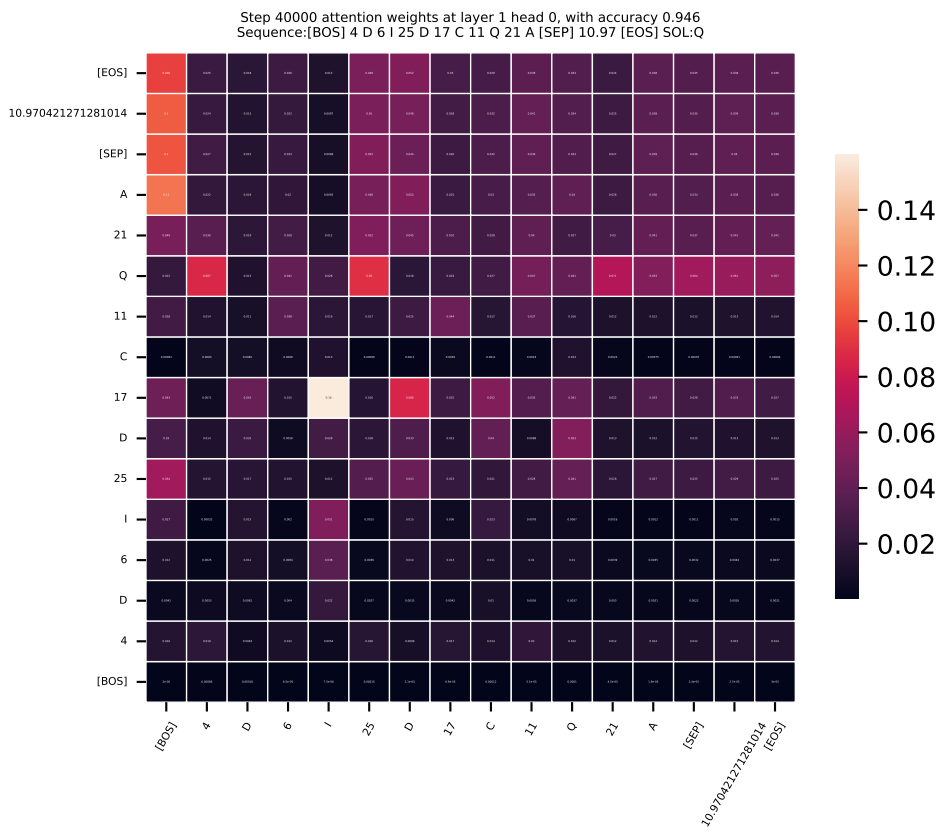
0.2
0.1


Step 40000 attention weights at layer 1 head 0, with accuracy 0.946
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
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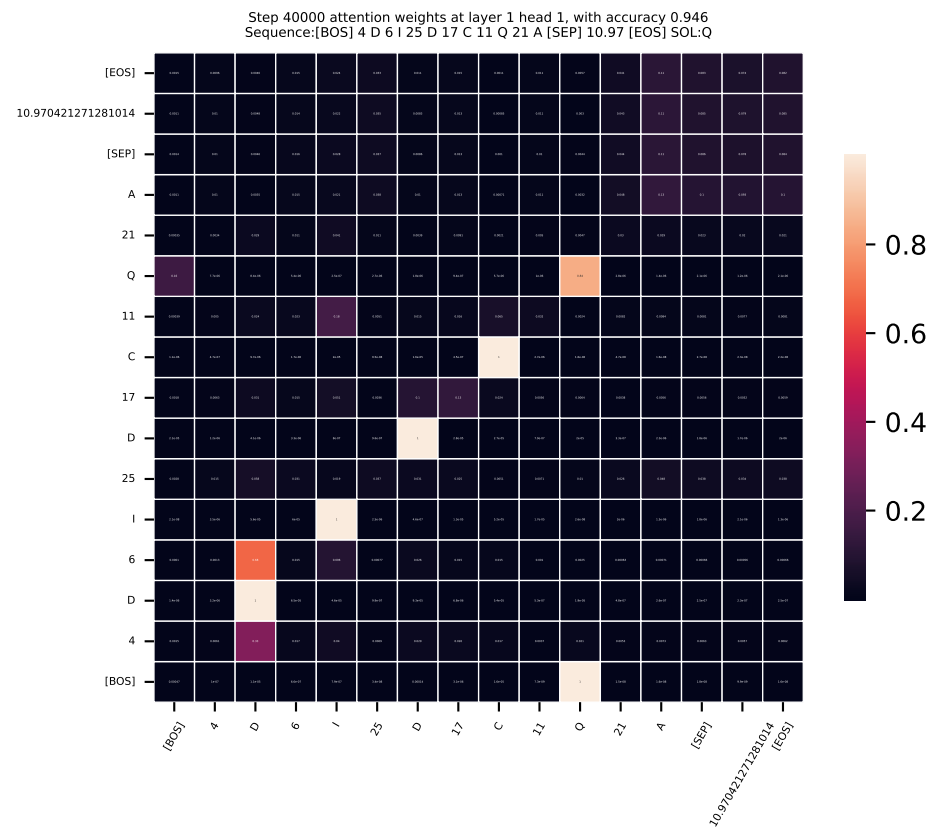
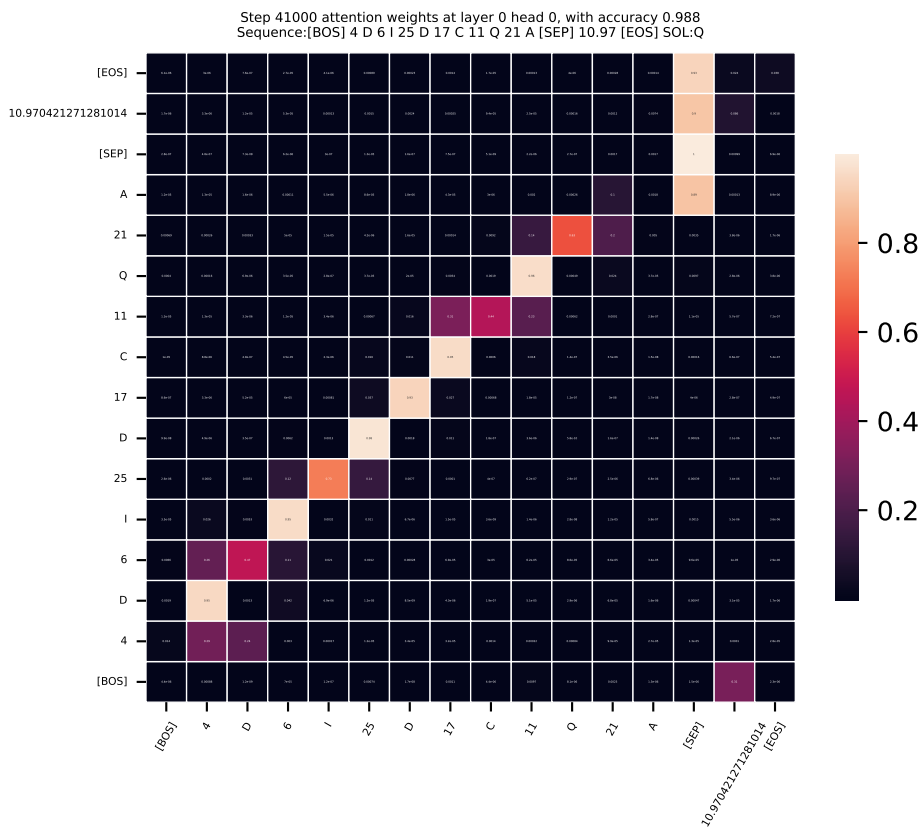
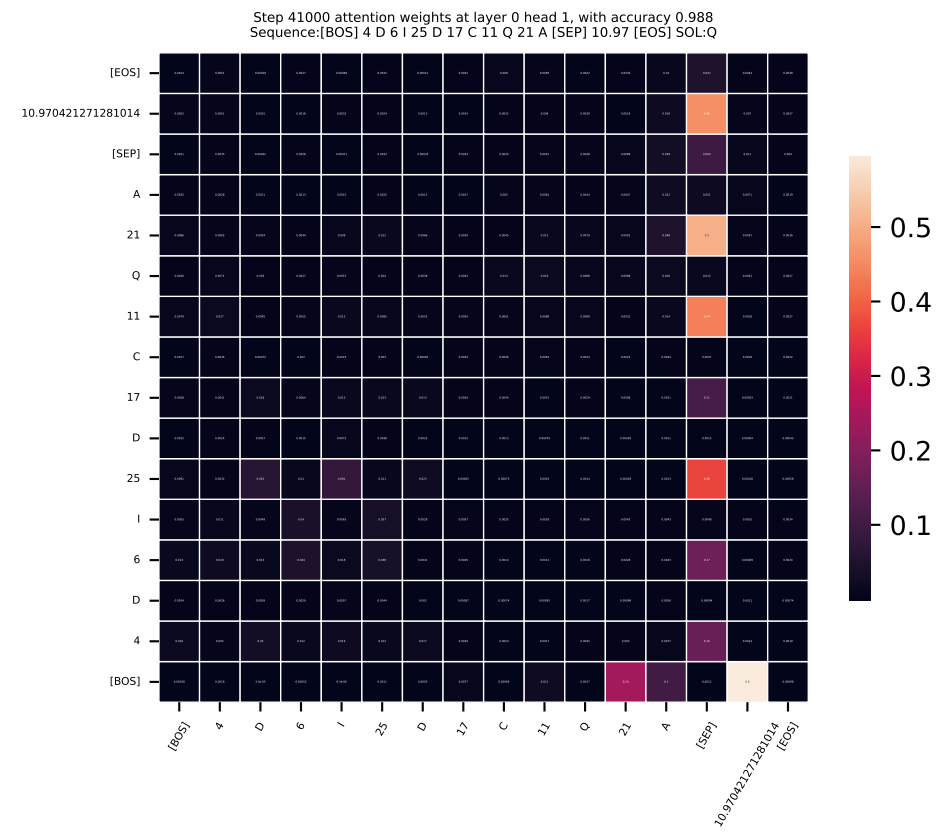
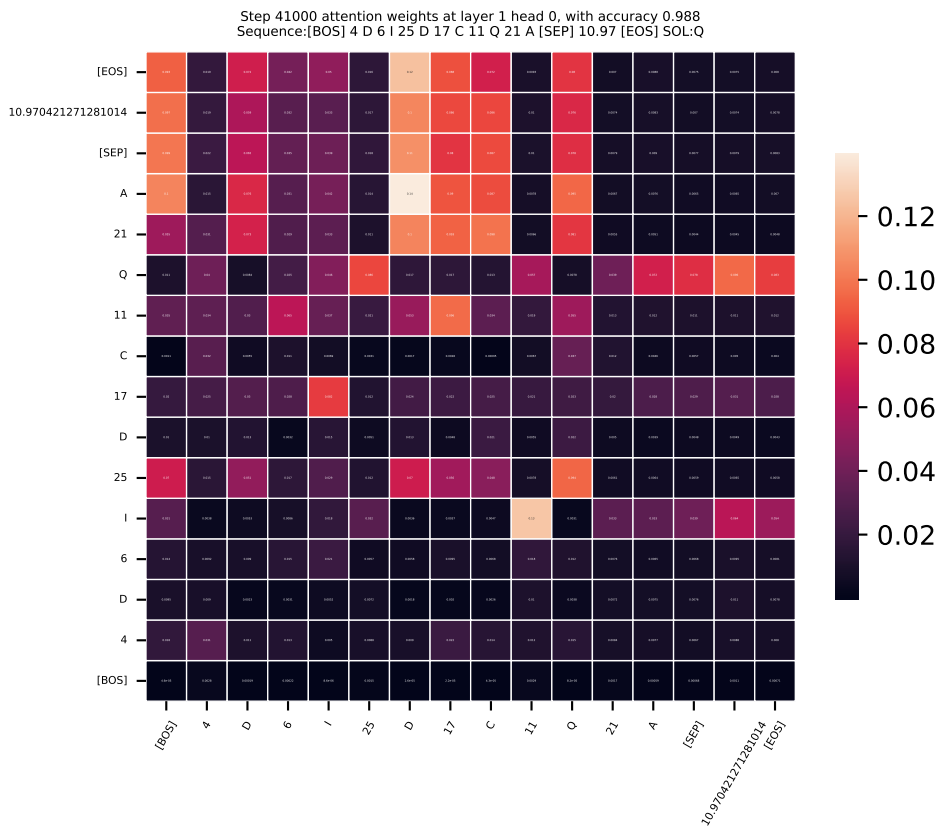
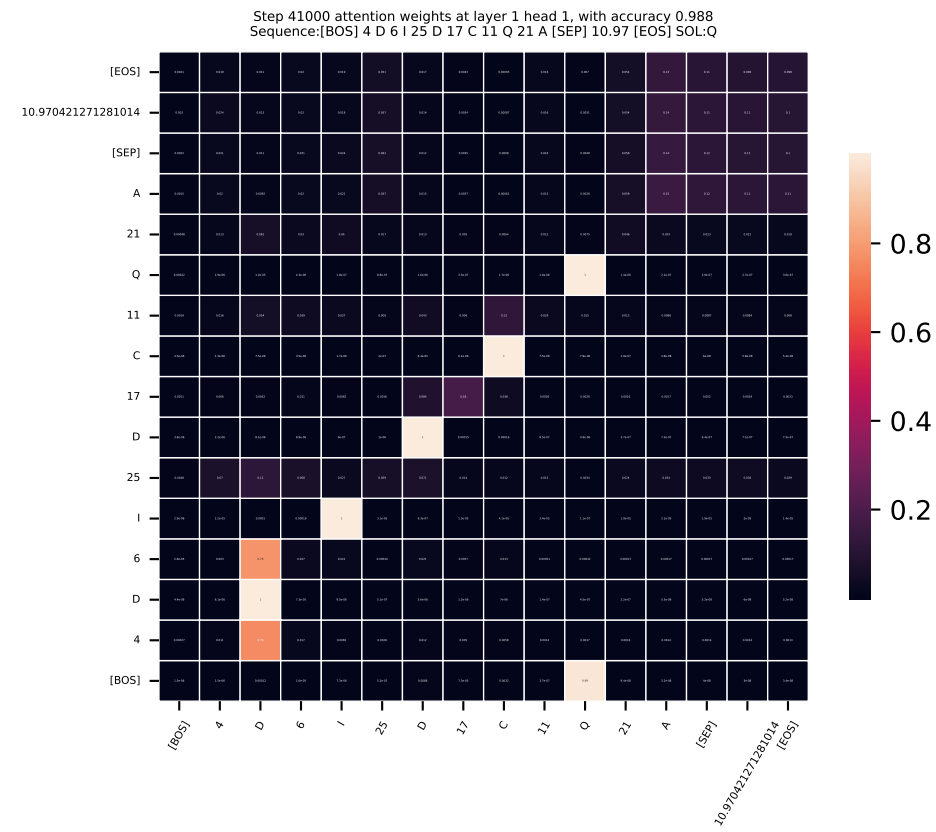
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
0.14
0.12
0.10
0.08
0.06
0.04
0.02

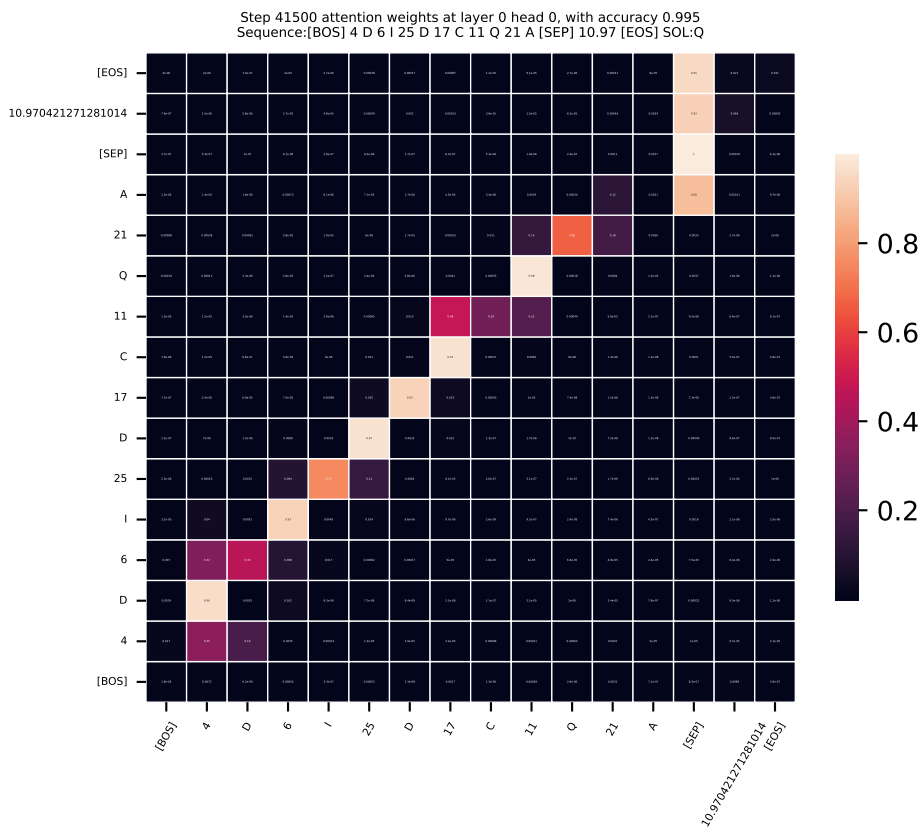

Step 40000 attention weights at layer 1 head 1, with accuracy 0.946
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
0.8
0.6
0.4
0.2

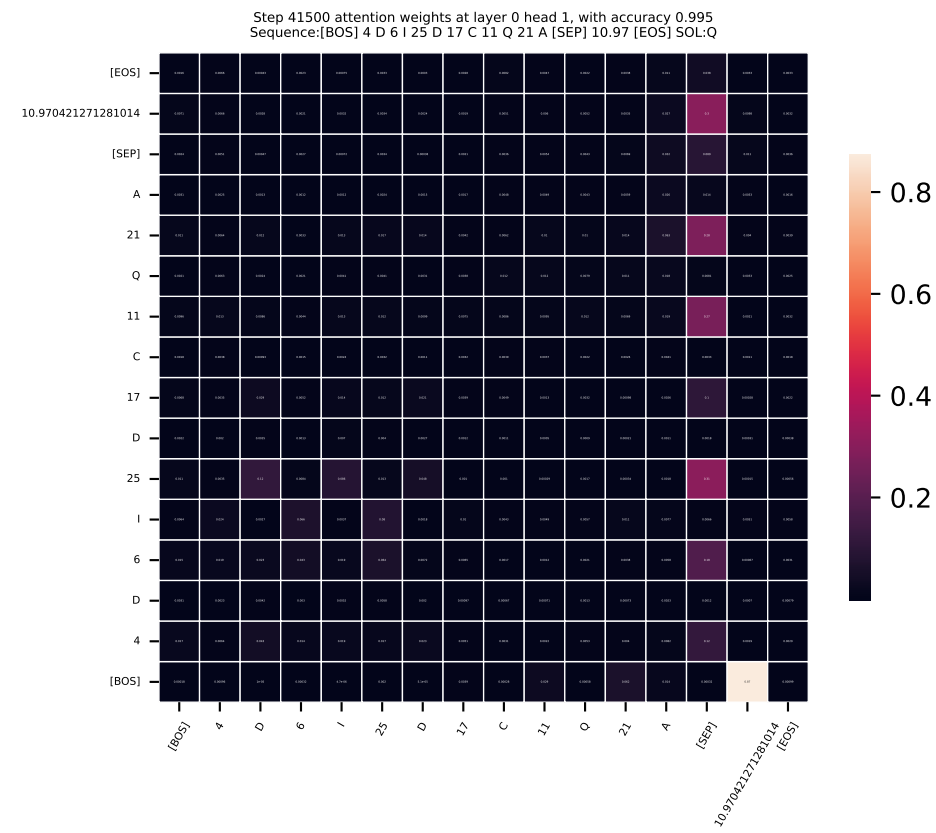

Step 41000 attention weights at layer 0 head 0, with accuracy 0.988
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
0.8
0.6
0.4
0.2

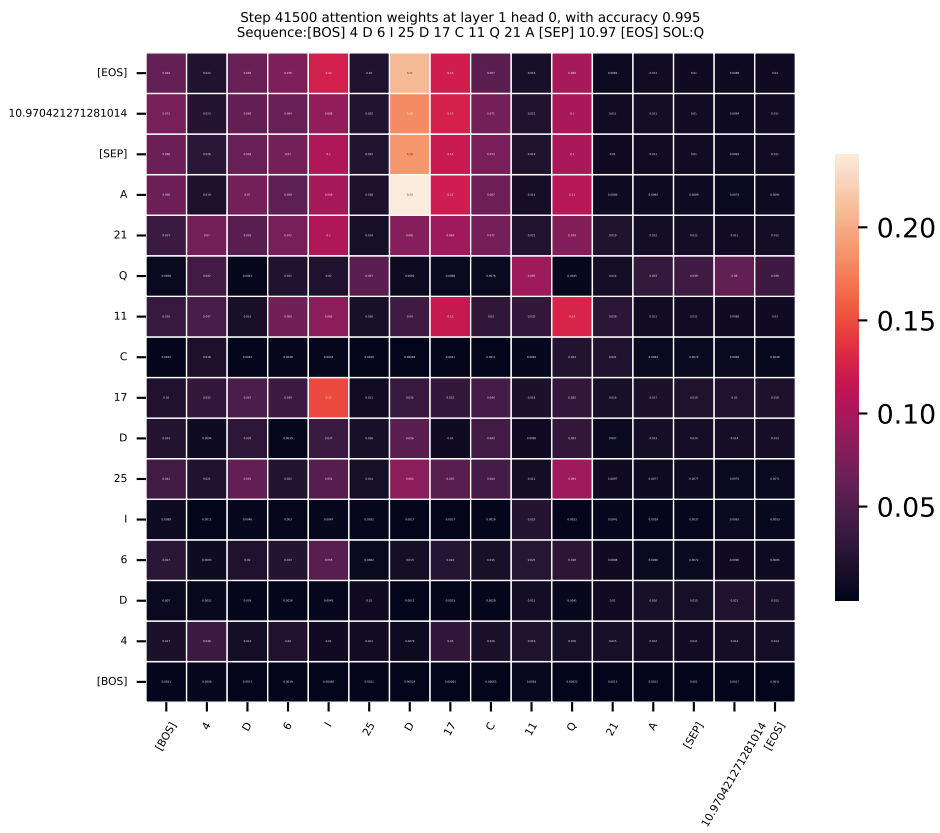

Step 41000 attention weights at layer 0 head 1, with accuracy 0.988
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
0.5
0.4
0.3
0.2
0.1

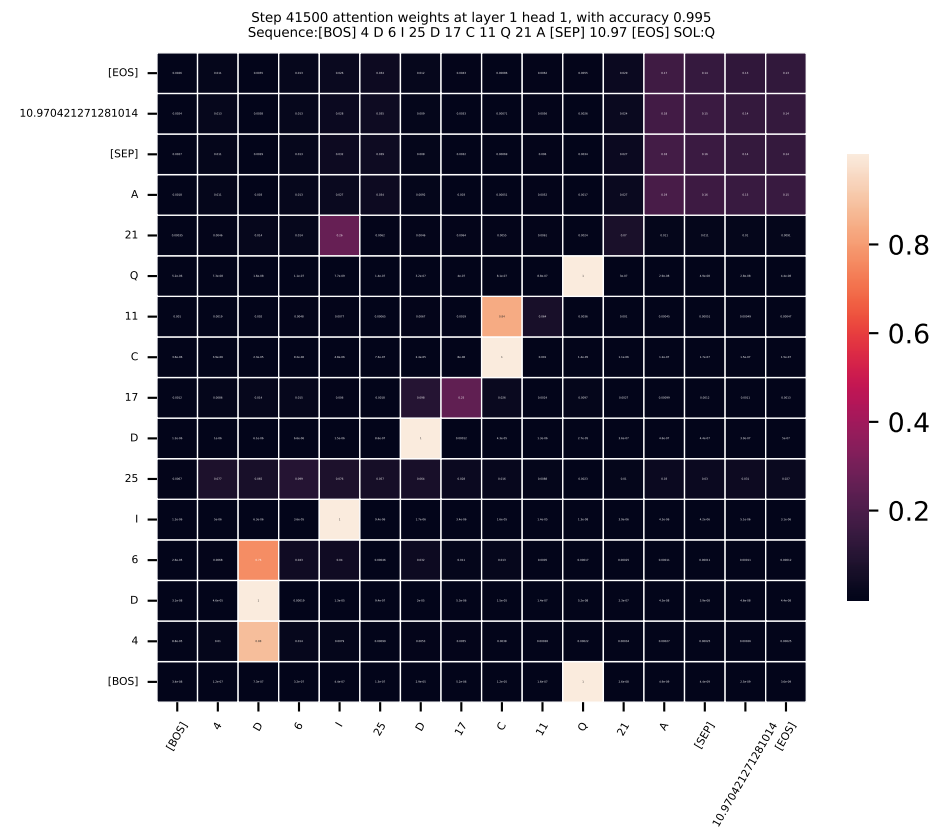

Step 41000 attention weights at layer 1 head 0, with accuracy 0.988
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
4
D
6
I
25
D
17
C
11
Q
21
A
[SEP]
10.970421271281014
[EOS]
0.12
0.10
0.08
0.06
0.04
0.02


Step 41000 attention weights at layer 1 head 1, with accuracy 0.988
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
4
D
6
I
25
D
17
C
11
Q
21
A
[SEP]
10.970421271281014
[EOS]
0.8
0.6
0.4
0.2


Step 41500 attention weights at layer 0 head 0, with accuracy 0.995
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
4
D
6
I
25
D
17
C
11
Q
21
A
[SEP]
10.970421271281014
[EOS]
0.8
0.6
0.4
0.2


Step 41500 attention weights at layer 0 head 1, with accuracy 0.995
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS]
4
D
6
I
25
D
17
C
11
Q
21
A
[SEP]
10.970421271281014
[EOS]
0.8
0.6
0.4
0.2


Step 41500 attention weights at layer 1 head 0, with accuracy 0.995
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
0.20
0.15
0.10
0.05


Step 41500 attention weights at layer 1 head 1, with accuracy 0.995
Sequence:[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.97 [EOS] SOL:Q
[EOS]
10.970421271281014
[SEP]
A
21
Q
11
C
17
D
25
I
6
D
4
[BOS]
[BOS] 4 D 6 I 25 D 17 C 11 Q 21 A [SEP] 10.970421271281014 [EOS]
0.8
0.6
0.4
0.2