```
1 e: tensor([-7.3582, -7.3298, -7.3297, ..., 10.4091, 10.4123, 10.4207],
         grad_fn=<Unique2Backward0>)
3 masks_dr unique: tensor([-7.3582, -7.3298, -7.3297, ..., 10.4091, 10.4123, 10.4207],
         grad_fn=<Unique2Backward0>)
5 print_dice: 0.5167433619499207, print_iou: 0.348384290933609
6 Epoch 17/499: 59% 94/160 [15:02<10:30, 9.56s/it]masks_dr unique: tensor([-6.9660]
  , -6.9572, -6.9540, ..., 10.2886, 10.2896, 10.3008],
         grad_fn=<Unique2Backward0>)
8 masks_dr unique: tensor([-6.9660, -6.9572, -6.9540, ..., 10.2886, 10.2896, 10.3008],
         grad_fn=<Unique2Backward0>)
10 Epoch 17/499: 59%
                             95/160 [15:11<10:19, 9.53s/it]print_dice: 0.5532755255699158
      print iou: 0.3824332058429718
11 masks dr unique: tensor([-7.2120, -7.2018, -7.2002, ..., 10.4089, 10.4118, 10.4147],
         grad_fn=<Unique2Backward0>)
13 masks_dr unique: tensor([-7.2120, -7.2018, -7.2002, ..., 10.4089, 10.4118, 10.4147],
         grad_fn=<Unique2Backward0>)
15 Epoch 17/499: 60%
                           | 96/160 [15:21<10:13, 9.59s/it]print_dice: 0.549571692943573
      print_iou: 0.37890303134918213
16 masks_dr unique: tensor([-7.2319, -7.2122, -7.1932, ..., 9.9451, 9.9463, 9.9479],
         grad_fn=<Unique2Backward0>)
18 masks_dr unique: tensor([-7.2319, -7.2122, -7.1932, ..., 9.9451, 9.9463, 9.9479],
         grad_fn=<Unique2Backward0>)
20 print dice: 0.5497912168502808,
                                 print iou: 0.37911173701286316
21 Epoch 17/499: 61% 97/160 [15:30<10:02, 9.57s/it] masks_dr unique: tensor([-7.2363
  , -7.2166, -7.1975, ..., 9.9525, 9.9538, 9.9553],
22
         grad_fn=<Unique2Backward0>)
23 masks_dr unique: tensor([-7.2363, -7.2166, -7.1975, ..., 9.9525, 9.9538, 9.9553],
         grad_fn=<Unique2Backward0>)
25 print_dice: 0.5880386829376221, print_iou: 0.41646939516067505
26 Epoch 17/499: 61%| | 98/160 [15:40<09:49, 9.51s/it]masks_dr unique: tensor([-7.2398
  , -7.2203, -7.2008, ..., 9.9605, 9.9620, 9.9634],
         grad_fn=<Unique2Backward0>)
28 masks_dr unique: tensor([-7.2398, -7.2203, -7.2008, ..., 9.9605, 9.9620, 9.9634],
         grad_fn=<Unique2Backward0>)
30 Epoch 17/499: 62%
                            99/160 [15:49<09:38, 9.48s/it]print_dice: 0.5924564599990845
      print_iou: 0.4209151566028595
31 masks_dr unique: tensor([-7.3437, -7.3223, -7.3168, ..., 11.4157, 11.4170, 11.4230],
         grad_fn=<Unique2Backward0>)
33 masks_dr unique: tensor([-7.3437, -7.3223, -7.3168, ..., 11.4157, 11.4170, 11.4230],
         grad fn=<Unique2Backward0>)
35 Epoch 17/499: 62%
                             | 100/160 [15:59<09:30, 9.51s/it]print_dice: 0.5509986877441406
      print_iou: 0.38026103377342224
36 masks_dr unique: tensor([-7.2428, -7.2238, -7.2036, ..., 9.9719, 9.9736, 9.9749],
         grad_fn=<Unique2Backward0>)
38 masks_dr unique: tensor([-7.2428, -7.2238, -7.2036, ..., 9.9719, 9.9736, 9.9749],
         grad_fn=<Unique2Backward0>)
40 print_dice: 0.5492590069770813,
                                  print_iou: 0.37860581278800964
    [100/160] eta: 0:09:35
                             time: 9.5455 data: 0.0002
9838, -6.9685, -6.9618, ..., 11.0252, 11.0269, 11.0276],
43
         grad_fn=<Unique2Backward0>)
44 masks_dr unique: tensor([-6.9838, -6.9685, -6.9618, ..., 11.0252, 11.0269, 11.0276],
         grad_fn=<Unique2Backward0>)
46 Epoch 17/499: 64%| | 102/160 [16:18<09:13, 9.54s/it]print_dice: 0.5575665235519409
      print_iou: 0.38654571771621704
47 masks_dr unique: tensor([-7.4463, -7.4399, -7.4207, ..., 10.6499, 10.6507, 10.6537],
         grad_fn=<Unique2Backward0>)
49 masks_dr unique: tensor([-7.4463, -7.4399, -7.4207, ..., 10.6499, 10.6507, 10.6537],
         grad_fn=<Unique2Backward0>)
                                  print_iou: 0.36686035990715027
51 print_dice: 0.5367927551269531,
52 Epoch 17/499: 64% | 103/160 [16:27<09:03, 9.53s/it]masks_dr unique: tensor([-6.
  4978, -6.4860, -6.4829, ..., 10.5062, 10.5065, 10.5077],
         grad_fn=<Unique2Backward0>)
53
54 masks_dr unique: tensor([-6.4978, -6.4860, -6.4829, ..., 10.5062, 10.5065, 10.5077],
         grad fn=<Unique2Backward0>)
                              | 104/160 [16:37<08:55, 9.56s/it]print_dice: 0.5640214681625366
56 Epoch 17/499: 65%
      print iou: 0.3927784860134125
57 masks_dr unique: tensor([-7.4443, -7.4130, -7.4057, ..., 10.8705, 10.8720, 10.8764],
         grad fn=<Unique2Backward0>)
```

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59 masks dr unique: tensor([-7.4443, -7.4130, -7.4057, ..., 10.8705, 10.8720, 10.8764],
          grad fn=<Unique2Backward0>)
61 Epoch 17/499: 66%
                               | 105/160 [16:46<08:44, 9.53s/it]print_dice: 0.5561529994010925
       print_iou: 0.38518834114074707
62 masks_dr unique: tensor([-7.2463, -7.2290, -7.2060, ..., 10.0067, 10.0087, 10.0101],
          grad fn=<Unique2Backward0>)
64 masks_dr unique: tensor([-7.2463, -7.2290, -7.2060, ..., 10.0067, 10.0087, 10.0101],
          grad_fn=<Unique2Backward0>)
66 Epoch 17/499: 66% 106/160 [16:56<08:33, 9.52s/it]print_dice: 0.5553766489028931
       print iou: 0.38444390892982483
67 masks_dr unique: tensor([-7.2466, -7.2298, -7.2064, ..., 10.0060, 10.0076, 10.0093],
          grad_fn=<Unique2Backward0>)
69 masks_dr unique: tensor([-7.2466, -7.2298, -7.2064, ..., 10.0060, 10.0076, 10.0093],
          grad fn=<Unique2Backward0>)
71 print_dice: 0.4679766595363617, print_iou: 0.30546313524246216
72 Epoch 17/499: 67% 107/160 [17:06<08:25, 9.55s/it]masks dr unique: tensor([-7.
   0268, -7.0226, -7.0203, ..., 10.4877, 10.4909, 10.4922],
          grad_fn=<Unique2Backward0>)
74 masks_dr unique: tensor([-7.0268, -7.0226, -7.0203, ..., 10.4877, 10.4909, 10.4922],
          grad_fn=<Unique2Backward0>)
76 Epoch 17/499: 68% 108/160 [17:15<08:15, 9.53s/it]print_dice: 0.6150320172309875
       print_iou: 0.4440767168998718
77 masks_dr unique: tensor([-6.7091, -6.7050, -6.6996, ..., 10.5896, 10.5925, 10.5951],
          grad_fn=<Unique2Backward0>)
79 masks_dr unique: tensor([-6.7091, -6.7050, -6.6996, ..., 10.5896, 10.5925, 10.5951],
          grad_fn=<Unique2Backward0>)
81 print_dice: 0.5065567493438721, print_iou: 0.3391871154308319
82 Epoch 17/499: 68% | 109/160 [17:25<08:04, 9.51s/it]masks_dr unique: tensor([-7.
   0971, -7.0928, -7.0902, ..., 10.5271, 10.5286, 10.5301],
          grad fn=<Unique2Backward0>)
84 masks_dr unique: tensor([-7.0971, -7.0928, -7.0902, ..., 10.5271, 10.5286, 10.5301],
          grad_fn=<Unique2Backward0>)
86 print_dice: 0.5226581692695618, print_iou: 0.35378286242485046
87 Epoch 17/499: 69% | 110/160 [17:34<07:55, 9.52s/it]masks_dr unique: tensor([-7.
   2559, -7.2396, -7.2163, ..., 10.0235, 10.0257, 10.0272],
          grad_fn=<Unique2Backward0>)
89 masks_dr unique: tensor([-7.2559, -7.2396, -7.2163, ..., 10.0235, 10.0257, 10.0272],
          grad_fn=<Unique2Backward0>)
91 Epoch 17/499: 69% | 111/160 [17:44<07:46, 9.52s/it]print_dice: 0.6299554705619812
       print iou: 0.4598065912723541
92 masks_dr unique: tensor([-6.9152, -6.9098, -6.9086, ..., 10.3948, 10.3978, 10.4022],
          grad_fn=<Unique2Backward0>)
94 masks_dr unique: tensor([-6.9152, -6.9098, -6.9086, ..., 10.3948, 10.3978, 10.4022],
          grad fn=<Unique2Backward0>)
96 print_dice: 0.5231991410255432, print_iou: 0.3542787432670593
97 Epoch 17/499: 70% | 112/160 [17:53<07:37, 9.52s/it]masks_dr unique: tensor([-7.
   0921, -7.0902, -7.0821, ..., 9.9825, 9.9875, 9.9934],
98
          grad_fn=<Unique2Backward0>)
99 masks_dr unique: tensor([-7.0921, -7.0902, -7.0821, ..., 9.9825, 9.9875, 9.9934],
          grad_fn=<Unique2Backward0>)
101 Epoch 17/499: 71% | 113/160 [18:03<07:27, 9.52s/it]print dice: 0.
   47773227095603943, print_iou: 0.31382933259010315
102 masks_dr unique: tensor([-7.2713, -7.2552, -7.2319, ..., 10.0341, 10.0360, 10.0376],
          grad_fn=<Unique2Backward0>)
104 masks_dr unique: tensor([-7.2713, -7.2552, -7.2319, ..., 10.0341, 10.0360, 10.0376],
          grad_fn=<Unique2Backward0>)
105
106 Epoch 17/499: 71%| | 114/160 [18:12<07:17, 9.51s/it]print_dice: 0.5734391808509827
       print_iou: 0.401973158121109
107 masks_dr unique: tensor([-7.0897, -7.0769, -7.0633, ..., 10.4423, 10.4433, 10.4481],
          grad_fn=<Unique2Backward0>)
108
109 masks_dr unique: tensor([-7.0897, -7.0769, -7.0633, ..., 10.4423, 10.4433, 10.4481],
          grad_fn=<Unique2Backward0>)
                               | 115/160 [18:22<07:09, 9.54s/it]print_dice: 0.5424782633781433
111 Epoch 17/499: 72%
       print_iou: 0.37219223380088806
112 masks_dr unique: tensor([-7.2008, -7.1906, -7.1789, ..., 10.2648, 10.2670, 10.2706],
          grad fn=<Unique2Backward0>)
114 masks_dr unique: tensor([-7.2008, -7.1906, -7.1789, ..., 10.2648, 10.2670, 10.2706],
          grad fn=<Unique2Backward0>)
115
116 Epoch 17/499: 72%| 116/160 [18:31<07:02, 9.59s/it]print_dice: 0.5135116577148438
```

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print iou: 0.34545284509658813
117 masks_dr unique: tensor([-6.9932, -6.9782, -6.9628, ..., 11.3791, 11.3792, 11.3855],
          grad fn=<Unique2Backward0>)
119 masks_dr unique: tensor([-6.9932, -6.9782, -6.9628, ..., 11.3791, 11.3792, 11.3855],
          grad_fn=<Unique2Backward0>)
121 print_dice: 0.5420350432395935, print_iou: 0.3717750906944275
122 Epoch 17/499: 73%| | 117/160 [18:41<06:51, 9.56s/it]masks_dr unique: tensor([-7.
   3074, -7.2905, -7.2880, ..., 11.0685, 11.0707, 11.0753],
123
          grad_fn=<Unique2Backward0>)
124 masks_dr unique: tensor([-7.3074, -7.2905, -7.2880, ..., 11.0685, 11.0707, 11.0753],
          grad_fn=<Unique2Backward0>)
126 Epoch 17/499: 74% | 118/160 [18:50<06:40, 9.53s/it]print_dice: 0.5340366363525391
       print iou: 0.3642905652523041
127 masks_dr unique: tensor([-7.2991, -7.2819, -7.2605, ..., 10.0392, 10.0400, 10.0418],
          grad_fn=<Unique2Backward0>)
129 masks_dr unique: tensor([-7.2991, -7.2819, -7.2605, ..., 10.0392, 10.0400, 10.0418],
          grad_fn=<Unique2Backward0>)
131 print_dice: 0.5058618783950806, print_iou: 0.33856433629989624
132 Epoch 17/499: 74%| | 14 | 119/160 [19:00<06:31, 9.55s/it]masks_dr unique: tensor([-6.
   6840, -6.6792, -6.6655, ..., 10.8048, 10.8064, 10.8108],
133
          grad_fn=<Unique2Backward0>)
134 masks_dr unique: tensor([-6.6840, -6.6792, -6.6655, ..., 10.8048, 10.8064, 10.8108],
          grad_fn=<Unique2Backward0>)
135
136 Epoch 17/499: 75% | 120/160 [19:10<06:22, 9.57s/it]print_dice: 0.510739803314209
       print_iou: 0.34294867515563965
137 masks_dr unique: tensor([-7.3078, -7.2900, -7.2690, ..., 10.0404, 10.0411, 10.0431],
          grad fn=<Unique2Backward0>)
139 masks_dr unique: tensor([-7.3078, -7.2900, -7.2690, ..., 10.0404, 10.0411, 10.0431],
          grad fn=<Unique2Backward0>)
                             | 121/160 [19:19<06:12, 9.54s/it]print_dice: 0.5406786799430847
141 Epoch 17/499: 76%
       print iou: 0.3705000579357147
142 masks_dr unique: tensor([-7.3125, -7.2944, -7.2736, ..., 10.0391, 10.0395, 10.0414],
          grad_fn=<Unique2Backward0>)
144 masks_dr unique: tensor([-7.3125, -7.2944, -7.2736, ..., 10.0391, 10.0395, 10.0414],
          grad fn=<Unique2Backward0>)
146 print_dice: 0.45666268467903137, print_iou: 0.29589298367500305
147 Epoch 17/499: 76%| | 122/160 [19:29<06:02, 9.53s/it]masks_dr unique: tensor([-6.
   8525, -6.8456, -6.8305, ..., 10.2925, 10.2942, 10.2950],
148
          grad_fn=<Unique2Backward0>)
149 masks_dr unique: tensor([-6.8525, -6.8456, -6.8305, ..., 10.2925, 10.2942, 10.2950],
          grad_fn=<Unique2Backward0>)
151 print_dice: 0.5215905904769897, print_iou: 0.3528052270412445
3236, -7.3054, -7.2847, ..., 10.0411, 10.0415, 10.0434],
153
          grad_fn=<Unique2Backward0>)
154 masks_dr unique: tensor([-7.3236, -7.3054, -7.2847, ..., 10.0411, 10.0415, 10.0434],
          grad_fn=<Unique2Backward0>)
156 Epoch 17/499: 78% | 124/160 [19:48<05:42, 9.52s/it]print_dice: 0.4760001003742218
       print iou: 0.3123360574245453
157 masks_dr unique: tensor([-7.1830, -7.1686, -7.1543, ..., 10.5568, 10.5572, 10.5632],
          grad_fn=<Unique2Backward0>)
159 masks_dr unique: tensor([-7.1830, -7.1686, -7.1543, ..., 10.5568, 10.5572, 10.5632],
160
          grad_fn=<Unique2Backward0>)
161 print dice: 0.5509700775146484, print iou: 0.3802337646484375
162 Epoch 17/499: 78% 78% 125/160 [19:57<05:33, 9.53s/it]masks_dr unique: tensor([-7.
   0377, -7.0131, -6.9943, ..., 10.3614, 10.3619, 10.3678],
          grad_fn=<Unique2Backward0>)
163
164 masks_dr unique: tensor([-7.0377, -7.0131, -6.9943, ..., 10.3614, 10.3619, 10.3678],
          grad fn=<Unique2Backward0>)
166 Epoch 17/499: 79% | 126/160 [20:07<05:24, 9.54s/it]print_dice: 0.5945674777030945
       print_iou: 0.4230494499206543
167 masks_dr unique: tensor([-7.3472, -7.3298, -7.3083, ..., 10.0536, 10.0552, 10.0560],
          grad_fn=<Unique2Backward0>)
168
169 masks_dr unique: tensor([-7.3472, -7.3298, -7.3083, ..., 10.0536, 10.0552, 10.0560],
          grad_fn=<Unique2Backward0>)
170
171 print dice: 0.5250585675239563,
                                    print_iou: 0.3559860587120056
172 Epoch 17/499: 79% | 127/160 [20:16<05:13, 9.49s/it]masks_dr unique: tensor([-6.
   9126, -6.9042, -6.8872, ..., 11.1913, 11.1917, 11.1942],
173
          grad_fn=<Unique2Backward0>)
```

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174 masks dr unique: tensor([-6.9126, -6.9042, -6.8872, ..., 11.1913, 11.1917, 11.1942],
          grad fn=<Unique2Backward0>)
176 Epoch 17/499: 80% | 128/160 [20:26<05:03, 9.49s/it]print dice: 0.4819389283657074
       print iou: 0.3174700438976288
177 masks_dr unique: tensor([-7.3540, -7.3369, -7.3156, ..., 10.0579, 10.0604, 10.0604],
          grad fn=<Unique2Backward0>)
179 masks_dr unique: tensor([-7.3540, -7.3369, -7.3156, ..., 10.0579, 10.0604, 10.0604],
180
          grad_fn=<Unique2Backward0>)
181 print_dice: 0.44085949659347534, print_iou: 0.28275802731513977
182 Epoch 17/499: 81% | 129/160 [20:35<04:55, 9.52s/it]masks_dr unique: tensor([-6.
    9391, -6.9345, -6.9265, ..., 10.7416, 10.7424, 10.7481],
          grad_fn=<Unique2Backward0>)
183
184 masks dr unique: tensor([-6.9391, -6.9345, -6.9265, ..., 10.7416, 10.7424, 10.7481],
          grad fn=<Unique2Backward0>)
186 Epoch 17/499: 81% | 130/160 [20:45<04:46, 9.54s/it]print_dice: 0.5709965825080872
       print iou: 0.3995767831802368
187 masks_dr unique: tensor([-7.3775, -7.3629, -7.3485, ..., 11.3320, 11.3341, 11.3347],
          grad_fn=<Unique2Backward0>)
189 masks_dr unique: tensor([-7.3775, -7.3629, -7.3485, ..., 11.3320, 11.3341, 11.3347],
          grad_fn=<Unique2Backward0>)
191 Epoch 17/499: 82%| | 131/160 [20:54<04:36, 9.53s/it]print_dice: 0.5253958106040955
       print_iou: 0.3562961518764496
192 masks_dr unique: tensor([-7.3590, -7.3435, -7.3212, ..., 10.0642, 10.0667, 10.0667],
          grad_fn=<Unique2Backward0>)
194 masks_dr unique: tensor([-7.3590, -7.3435, -7.3212, ..., 10.0642, 10.0667, 10.0667],
195
          grad_fn=<Unique2Backward0>)
196 Epoch 17/499: 82% | 132/160 [21:04<04:25, 9.50s/it]print_dice: 0.4680559039115906
       print iou: 0.3055306673049927
197 masks_dr unique: tensor([-7.3613, -7.3465, -7.3237, ..., 10.0646, 10.0668, 10.0671],
          grad_fn=<Unique2Backward0>)
199 masks_dr unique: tensor([-7.3613, -7.3465, -7.3237, ..., 10.0646, 10.0668, 10.0671],
          grad fn=<Unique2Backward0>)
201 print_dice: 0.537919282913208, print_iou: 0.36791351437568665
202 Epoch 17/499: 83% | 133/160 [21:13<04:16, 9.50s/it]masks_dr unique: tensor([-7.
   4864, -7.4695, -7.4611, ..., 10.7617, 10.7622, 10.7661],
203
          grad_fn=<Unique2Backward0>)
204 masks_dr unique: tensor([-7.4864, -7.4695, -7.4611, ..., 10.7617, 10.7622, 10.7661],
205
          grad_fn=<Unique2Backward0>)
206 Epoch 17/499: 84%| | 134/160 [21:23<04:08, 9.54s/it]print_dice: 0.5016493797302246
       print iou: 0.3348010778427124
207 masks_dr unique: tensor([-7.3509, -7.3375, -7.3139, ..., 10.0742, 10.0765, 10.0768],
          grad_fn=<Unique2Backward0>)
209 masks_dr unique: tensor([-7.3509, -7.3375, -7.3139, ..., 10.0742, 10.0765, 10.0768],
          grad_fn=<Unique2Backward0>)
211 Epoch 17/499: 84%| | | 135/160 [21:33<03:59, 9.59s/it]print_dice: 0.4737078547477722
       print_iou: 0.31036514043807983
212 masks_dr unique: tensor([-7.4194, -7.4008, -7.3959, ..., 11.2028, 11.2036, 11.2088],
213
          grad_fn=<Unique2Backward0>)
214 masks_dr unique: tensor([-7.4194, -7.4008, -7.3959, ..., 11.2028, 11.2036, 11.2088],
          grad_fn=<Unique2Backward0>)
216 Epoch 17/499: 85% | 136/160 [21:42<03:49, 9.56s/it]print_dice: 0.5639069080352783
       print_iou: 0.39266741275787354
217 masks_dr unique: tensor([-6.9870, -6.9756, -6.9553, ..., 10.3793, 10.3828, 10.3833],
          grad fn=<Unique2Backward0>)
219 masks_dr unique: tensor([-6.9870, -6.9756, -6.9553, ..., 10.3793, 10.3828, 10.3833],
          grad_fn=<Unique2Backward0>)
220
221 Epoch 17/499: 86%| | 137/160 [21:52<03:39, 9.53s/it]print_dice: 0.5082153677940369
       print_iou: 0.34067609906196594
222 masks_dr unique: tensor([-7.3427, -7.3311, -7.3060, ..., 10.0717, 10.0730, 10.0741],
          grad_fn=<Unique2Backward0>)
223
224 masks dr unique: tensor([-7.3427, -7.3311, -7.3060, ..., 10.0717, 10.0730, 10.0741],
          grad fn=<Unique2Backward0>)
226 print_dice: 0.5038832426071167,
                                    print_iou: 0.33679407835006714
227 Epoch 17/499: 86% | 138/160 [22:01<03:30, 9.55s/it]masks_dr unique: tensor([-6.
    8127, -6.8062, -6.7968, ..., 10.4425, 10.4466, 10.4511],
228
          grad_fn=<Unique2Backward0>)
229 masks_dr unique: tensor([-6.8127, -6.8062, -6.7968, ..., 10.4425, 10.4466, 10.4511],
          grad_fn=<Unique2Backward0>)
230
231 print dice: 0.5105075836181641,
                                    print_iou: 0.3427393138408661
```

```
232 Epoch 17/499: 87%| | 139/160 [22:11<03:21, 9.61s/it]masks_dr unique: tensor([-7.
   0903, -7.0724, -7.0545, ..., 10.2334, 10.2335, 10.2384],
          grad fn=<Unique2Backward0>)
234 masks dr unique: tensor([-7.0903, -7.0724, -7.0545, ..., 10.2334, 10.2335, 10.2384],
          grad fn=<Unique2Backward0>)
236 Epoch 17/499: 88% | 140/160 [22:21<03:12, 9.62s/it]print_dice: 0.
                       print iou: 0.3155097961425781
   47967684268951416,
237 masks_dr unique: tensor([-7.3402, -7.3302, -7.3037, ..., 10.0723, 10.0724, 10.0744],
          grad_fn=<Unique2Backward0>)
239 masks_dr unique: tensor([-7.3402, -7.3302, -7.3037, ..., 10.0723, 10.0724, 10.0744],
          grad_fn=<Unique2Backward0>)
241 Epoch 17/499: 88% | 88% | 141/160 [22:30<03:01, 9.57s/it]print dice: 0.
   47325319051742554, print_iou: 0.30997490882873535
242 masks dr unique: tensor([-7.3426, -7.3328, -7.3063, ..., 10.0732, 10.0732, 10.0754],
          grad_fn=<Unique2Backward0>)
244 masks_dr unique: tensor([-7.3426, -7.3328, -7.3063, ..., 10.0732, 10.0732, 10.0754],
          grad_fn=<Unique2Backward0>)
246 Epoch 17/499: 89%| 89%| 142/160 [22:39<02:50, 9.47s/it]print_dice: 0.5138223767280579
       print_iou: 0.345734179019928
247 masks_dr unique: tensor([-7.2774, -7.2773, -7.2710, ..., 11.0617, 11.0641, 11.0660],
          grad_fn=<Unique2Backward0>)
249 masks_dr unique: tensor([-7.2774, -7.2773, -7.2710, ..., 11.0617, 11.0641, 11.0660],
          grad_fn=<Unique2Backward0>)
250
251 print_dice: 0.469317227602005, print_iou: 0.3066064417362213
3455, -7.3359, -7.3096, ..., 10.0800, 10.0809, 10.0822],
253
          grad fn=<Unique2Backward0>)
254 masks_dr unique: tensor([-7.3455, -7.3359, -7.3096, ..., 10.0800, 10.0809, 10.0822],
          grad_fn=<Unique2Backward0>)
256 Epoch 17/499: 90%
                        144/160 [22:59<02:33, 9.59s/it]print_dice: 0.4844096302986145
       print_iou: 0.31961777806282043
257 masks_dr unique: tensor([-6.9264, -6.9134, -6.9045, ..., 10.3019, 10.3063, 10.3111],
          grad_fn=<Unique2Backward0>)
259 masks_dr unique: tensor([-6.9264, -6.9134, -6.9045, ..., 10.3019, 10.3063, 10.3111],
          grad fn=<Unique2Backward0>)
261 Epoch 17/499: 91%| | 145/160 [23:08<02:24, 9.61s/it]print_dice: 0.5284328460693359
       print_iou: 0.3590952754020691
262 masks_dr unique: tensor([-6.7473, -6.7389, -6.7251, ..., 10.0805, 10.0859, 10.0887],
          grad_fn=<Unique2Backward0>)
264 masks_dr unique: tensor([-6.7473, -6.7389, -6.7251, ..., 10.0805, 10.0859, 10.0887],
          grad_fn=<Unique2Backward0>)
266 print_dice: 0.4748161733150482, print_iou: 0.3113173246383667
267 Epoch 17/499: 91%| | 146/160 [23:18<02:13, 9.57s/it]masks_dr unique: tensor([-7.
   3526, -7.3459, -7.3341, ..., 10.9547, 10.9596, 10.9641],
268
          grad_fn=<Unique2Backward0>)
269 masks_dr unique: tensor([-7.3526, -7.3459, -7.3341, ..., 10.9547, 10.9596, 10.9641],
          grad_fn=<Unique2Backward0>)
271 Epoch 17/499: 92%| | 147/160 [23:27<02:04, 9.57s/it]print_dice: 0.4350344240665436
       print iou: 0.2779833674430847
272 masks_dr unique: tensor([-6.8899, -6.8812, -6.8807, ..., 10.9256, 10.9289, 10.9301],
          grad_fn=<Unique2Backward0>)
274 masks_dr unique: tensor([-6.8899, -6.8812, -6.8807, ..., 10.9256, 10.9289, 10.9301],
275
          grad_fn=<Unique2Backward0>)
276 print dice: 0.5716635584831238, print iou: 0.4002303183078766
277 Epoch 17/499: 92%| 12 12 12 1 148/160 [23:37<01:55, 9.60s/it]masks_dr unique: tensor([-7.
   3693, -7.3592, -7.3325, ..., 10.1056, 10.1072, 10.1076],
          grad_fn=<Unique2Backward0>)
278
279 masks_dr unique: tensor([-7.3693, -7.3592, -7.3325, ..., 10.1056, 10.1072, 10.1076],
          grad_fn=<Unique2Backward0>)
                          149/160 [23:47<01:45, 9.58s/it]print_dice: 0.5433241724967957
281 Epoch 17/499: 93%
       print_iou: 0.37298908829689026
282 masks_dr unique: tensor([-7.1991, -7.1755, -7.1649, ..., 10.2305, 10.2345, 10.2362],
          grad_fn=<Unique2Backward0>)
283
284 masks_dr unique: tensor([-7.1991, -7.1755, -7.1649, ..., 10.2305, 10.2345, 10.2362],
          grad fn=<Unique2Backward0>)
286 Epoch 17/499: 94%
                         150/160 [23:56<01:35, 9.55s/it]print dice: 0.5861613154411316
       print iou: 0.4145885407924652
287 masks_dr unique: tensor([-7.3794, -7.3692, -7.3422, ..., 10.1234, 10.1239, 10.1255],
          grad fn=<Unique2Backward0>)
288
```

```
289 masks_dr unique: tensor([-7.3794, -7.3692, -7.3422, ..., 10.1234, 10.1239, 10.1255],
          grad fn=<Unique2Backward0>)
print_iou: 0.38410305976867676
292 masks_dr unique: tensor([-7.3803, -7.3700, -7.3430, ..., 10.1305, 10.1308, 10.1328],
          grad_fn=<Unique2Backward0>)
294 masks_dr unique: tensor([-7.3803, -7.3700, -7.3430, ..., 10.1305, 10.1308, 10.1328],
295
          grad_fn=<Unique2Backward0>)
296 Epoch 17/499: 95% | 152/160 [24:16<01:17, 9.72s/it]print_dice: 0.4606460928916931
       print iou: 0.2992463707923889
297 masks_dr unique: tensor([-7.1568, -7.1507, -7.1342, ..., 11.2552, 11.2563, 11.2581],
          grad_fn=<Unique2Backward0>)
299 masks dr unique: tensor([-7.1568, -7.1507, -7.1342, ..., 11.2552, 11.2563, 11.2581],
          grad fn=<Unique2Backward0>)
301 Epoch 17/499: 96% | 153/160 [24:25<01:08, 9.72s/it]print_dice: 0.5139248371124268
       print_iou: 0.3458269238471985
302 masks_dr unique: tensor([-7.3225, -7.3097, -7.2967, ..., 11.3929, 11.3961, 11.4016],
          grad_fn=<Unique2Backward0>)
304 masks_dr unique: tensor([-7.3225, -7.3097, -7.2967, ..., 11.3929, 11.3961, 11.4016],
          grad fn=<Unique2Backward0>)
306 Epoch 17/499: 96% | 154/160 [24:35<00:58, 9.72s/it]print_dice: 0.5335835218429565
       print_iou: 0.3638690412044525
307 masks dr unique: tensor([-7.2083, -7.1950, -7.1778, ..., 11.3177, 11.3190, 11.3251],
          grad_fn=<Unique2Backward0>)
309 masks_dr unique: tensor([-7.2083, -7.1950, -7.1778, ..., 11.3177, 11.3190, 11.3251],
310
          grad_fn=<Unique2Backward0>)
311 Epoch 17/499: 97% | 155/160 [24:45<00:48, 9.67s/it]print dice: 0.5759305357933044
       print iou: 0.40442582964897156
312 masks_dr unique: tensor([-7.3944, -7.3835, -7.3559, ..., 10.1586, 10.1587, 10.1603],
          grad_fn=<Unique2Backward0>)
314 masks dr unique: tensor([-7.3944, -7.3835, -7.3559, ..., 10.1586, 10.1587, 10.1603],
          grad_fn=<Unique2Backward0>)
316 print_dice: 0.5575342178344727, print_iou: 0.38651466369628906
317 Epoch 17/499: 98% 98% 156/160 [24:54<00:38, 9.68s/it]masks dr unique: tensor([-7.
   1577, -7.1439, -7.1220, ..., 11.4809, 11.4834, 11.4894],
318
          grad_fn=<Unique2Backward0>)
319 masks_dr unique: tensor([-7.1577, -7.1439, -7.1220, ..., 11.4809, 11.4834, 11.4894],
          grad_fn=<Unique2Backward0>)
321 print_dice: 0.5390599966049194, print_iou: 0.36898159980773926
322 Epoch 17/499: 98%| 157/160 [25:04<00:29, 9.67s/it]masks_dr unique: tensor([-7.
   1471, -7.1316, -7.1087, ..., 11.1145, 11.1172, 11.1213],
323
          grad_fn=<Unique2Backward0>)
324 masks_dr unique: tensor([-7.1471, -7.1316, -7.1087, ..., 11.1145, 11.1172, 11.1213],
          grad_fn=<Unique2Backward0>)
326 Epoch 17/499: 99%| 158/160 [25:14<00:19, 9.63s/it]print_dice: 0.4693870544433594
       print_iou: 0.3066660463809967
327 masks_dr unique: tensor([-7.4503, -7.4400, -7.4193, ..., 11.3291, 11.3293, 11.3375],
328
          grad_fn=<Unique2Backward0>)
329 masks dr unique: tensor([-7.4503, -7.4400, -7.4193, ..., 11.3291, 11.3293, 11.3375],
          grad_fn=<Unique2Backward0>)
331 Epoch 17/499: 99% 100 159/160 [25:23<00:09, 9.55s/it]print dice: 0.5666805505752563
       print_iou: 0.39536237716674805
332 masks_dr unique: tensor([-7.3531, -7.3490, -7.3348, ..., 10.7693, 10.7698, 10.7728],
          grad fn=<Unique2Backward0>)
334 masks_dr unique: tensor([-7.3531, -7.3490, -7.3348, ..., 10.7693, 10.7698, 10.7728],
          grad_fn=<Unique2Backward0>)
335
336 Epoch 17/499: 100%
                             | 160/160 [25:32<00:00, 9.48s/it]print_dice: 0.
                       print iou: 0.3250727355480194
   49064889550209045,
     [159/160] eta: 0:00:09
                               time: 9.5865 data: 0.0026
338 Total time: 0:25:33 (9.5836 s / it)
339 Averaged stats: training_loss: -8.1279 (-8.1279) loss_mask: -8.4283 (-8.4283) loss_dice: 0.
   3004 (0.3004)
340 Epoch 17/499: 100% | 100% | 160/160 [25:33<00:00, 9.58s/it]
                  | 0/12 [00:00<?, ?it/s]Net parameter norm: 1054.421532124048
341
     0%|
342 Validating...
343 Valid dataloader len: 12
344 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([5.6773e-04, 6.
   0406e-04, 6.0530e-04, ..., 9.9997e-01, 9.9997e-01,
345
           9.9997e-01], grad fn=<Unique2Backward0>)
```

```
346 masks dr unique: tensor([9.5737e-04, 9.7218e-04, 9.7383e-04, ..., 9.9996e-01, 9.9996e-01,
           9.9996e-01], grad_fn=<Unique2Backward0>)
                  | 1/12 [00:10<01:56, 10.64s/it]print dice: 0.5512108206748962, print iou: 0.
348
   3804631233215332
                              time: 10.6358 data: 4.8341
     [ 0/12] eta: 0:02:07
350 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.1790e-04, 4.
   5684e-04, 4.8382e-04, ..., 9.9997e-01, 9.9997e-01,
351
           9.9997e-01], grad_fn=<Unique2Backward0>)
352 masks_dr unique: tensor([7.7746e-04, 7.9334e-04, 7.9653e-04, ..., 9.9997e-01, 9.9997e-01,
           9.9997e-01], grad fn=<Unique2Backward0>)
354 print dice: 0.597781240940094, print iou: 0.4263109862804413
                  2/12 [00:16<01:18, 7.84s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32])
   unique sigmoid values: tensor([7.0277e-04, 7.1612e-04, 7.4805e-04, ..., 9.9999e-01, 9.9999e-
           9.9999e-01], grad fn=<Unique2Backward0>)
356
357 masks dr unique: tensor([0.0010, 0.0010, 0.0011, ..., 1.0000, 1.0000],
          grad fn=<Unique2Backward0>)
359 25%
                  | 3/12 [00:22<01:01, 6.88s/it]print_dice: 0.520257830619812, print_iou: 0.
   35158681869506836
360 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.5323e-04, 4.
   7831e-04, 4.9243e-04, ..., 9.9998e-01, 9.9998e-01,
           9.9998e-01], grad_fn=<Unique2Backward0>)
361
362 masks_dr unique: tensor([6.1226e-04, 6.1238e-04, 6.1819e-04, ..., 9.9998e-01, 9.9998e-01,
           9.9998e-01], grad_fn=<Unique2Backward0>)
364 print_dice: 0.5081088542938232, print_iou: 0.34058040380477905
                  4/12 [00:28<00:53, 6.63s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32])
   unique sigmoid values: tensor([4.7889e-04, 5.2709e-04, 5.4855e-04, ..., 9.9997e-01, 9.9997e-
           9.9997e-01], grad_fn=<Unique2Backward0>)
366
367 masks dr unique: tensor([6.4883e-04, 6.6094e-04, 6.9001e-04, ..., 9.9996e-01, 9.9996e-01,
           9.9996e-01], grad_fn=<Unique2Backward0>)
369 print_dice: 0.5677444338798523, print_iou: 0.3963988125324249
                  | 5/12 [00:34<00:44, 6.32s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32])
   unique sigmoid values: tensor([6.2779e-04, 6.6122e-04, 6.7735e-04, ..., 9.9999e-01, 9.9999e-
   01,
371
           9.9999e-01], grad_fn=<Unique2Backward0>)
372 masks_dr unique: tensor([7.9072e-04, 8.1191e-04, 8.2656e-04, ..., 9.9999e-01, 9.9999e-01,
           9.9999e-01], grad_fn=<Unique2Backward0>)
373
                  6/12 [00:40<00:36, 6.14s/it]print_dice: 0.49771854281425476, print_iou: 0.
374 50%
   3313084542751312
375 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([9.2407e-04, 9.
   8397e-04, 9.9761e-04, ..., 9.9998e-01, 9.9998e-01,
376
           9.9998e-01], grad_fn=<Unique2Backward0>)
377 masks_dr unique: tensor([0.0010, 0.0011, 0.0011, ..., 1.0000, 1.0000, 1.0000],
378
          grad_fn=<Unique2Backward0>)
379 print_dice: 0.4339967966079712, print_iou: 0.27713659405708313
             7/12 [00:46<00:30, 6.14s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32])
   unique sigmoid values: tensor([4.7820e-04, 5.2677e-04, 5.4800e-04, ..., 9.9997e-01, 9.9997e-
   01,
381
           9.9997e-01], grad_fn=<Unique2Backward0>)
382 masks_dr unique: tensor([6.4848e-04, 6.6058e-04, 6.9081e-04, ..., 9.9996e-01, 9.9996e-01,
383
           9.9996e-01], grad_fn=<Unique2Backward0>)
384 67%
                 8/12 [00:51<00:24, 6.03s/it]print_dice: 0.542047917842865, print_iou: 0.
   3717871904373169
385 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.8637e-04, 5.
   3596e-04, 5.5711e-04, ..., 9.9997e-01, 9.9997e-01,
           9.9997e-01], grad_fn=<Unique2Backward0>)
386
387 masks_dr unique: tensor([7.5875e-04, 7.6444e-04, 7.7076e-04, ..., 9.9997e-01, 9.9997e-01,
           9.9997e-01], grad_fn=<Unique2Backward0>)
389 print_dice: 0.5584668517112732, print_iou: 0.3874117136001587
         9/12 [00:58<00:18, 6.12s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32])
   unique sigmoid values: tensor([4.7835e-04, 5.2690e-04, 5.4819e-04, ..., 9.9997e-01, 9.9997e-
   01,
391
           9.9997e-01], grad_fn=<Unique2Backward0>)
392 masks_dr unique: tensor([6.4855e-04, 6.6066e-04, 6.8997e-04, ..., 9.9996e-01, 9.9996e-01,
           9.9996e-01], grad fn=<Unique2Backward0>)
394 83%|
                 | | 10/12 [01:04<00:11, 6.00s/it]print_dice: 0.5647053718566895, print_iou: 0.
   39344215393066406
395 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.7884e-04, 5.
```

```
395 2651e-04, 5.4861e-04, ..., 9.9997e-01, 9.9997e-01,
           9.9997e-01], grad fn=<Unique2Backward0>)
397 masks dr unique: tensor([6.4823e-04, 6.6032e-04, 6.9054e-04, ..., 9.9996e-01, 9.9996e-01,
398
           9.9996e-01], grad_fn=<Unique2Backward0>)
399 print dice: 0.608231246471405, print iou: 0.43702033162117004
            | 11/12 [01:09<00:05, 5.90s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
   ]) unique sigmoid values: tensor([4.7935e-04, 5.2672e-04, 5.4845e-04, ..., 9.9997e-01, 9.
   9997e-01,
401
           9.9997e-01], grad_fn=<Unique2Backward0>)
402 masks_dr unique: tensor([6.4861e-04, 6.6073e-04, 6.9037e-04, ..., 9.9996e-01, 9.9996e-01,
           9.9996e-01], grad_fn=<Unique2Backward0>)
404 100%| 100%| 1000 | 12/12 [01:15<00:00, 5.83s/it]print_dice: 0.5717511773109436, print_iou: 0.
   4003162384033203
405
     [11/12] eta: 0:00:06
                             time: 6.2801 data: 0.4033
         12/12 [01:15<00:00, 6.32s/it]
407 Total time: 0:01:15 (6.3162 s / it)
408 =============
409 Averaged stats:
410 Epoch 18/499:
                  0%|
                               | 0/160 [00:00<?, ?it/s]epoch:
                                                                18 learning rate: 1e-06
411 masks_dr unique: tensor([-7.1590, -7.1477, -7.1464, ..., 11.4709, 11.4710, 11.4736],
412
          grad_fn=<Unique2Backward0>)
413 masks_dr unique: tensor([-7.1590, -7.1477, -7.1464, ..., 11.4709, 11.4710, 11.4736],
414
          grad fn=<Unique2Backward0>)
415 Epoch 18/499:
                               | 1/160 [00:13<36:29, 13.77s/it]print dice: 0.49076178669929504
                  1%|
       print_iou: 0.3251718580722809
416 [ 0/160] eta: 0:36:43
                             time: 13.7724 data: 4.2324
417 masks_dr unique: tensor([-7.5552, -7.5405, -7.5267, ..., 11.3031, 11.3042, 11.3100],
          grad fn=<Unique2Backward0>)
419 masks_dr unique: tensor([-7.5552, -7.5405, -7.5267, ..., 11.3031, 11.3042, 11.3100],
          grad fn=<Unique2Backward0>)
421 print_dice: 0.49686622619628906, print_iou: 0.3305535614490509
422 Epoch 18/499: 1%||
                              | 2/160 [00:23<29:41, 11.28s/it]masks_dr unique: tensor([-7.1924
   , -7.1783, -7.1715, ..., 11.4537, 11.4545, 11.4619],
423
          grad fn=<Unique2Backward0>)
424 masks_dr unique: tensor([-7.1924, -7.1783, -7.1715, ..., 11.4537, 11.4545, 11.4619],
          grad_fn=<Unique2Backward0>)
426 print_dice: 0.5495527982711792, print_iou: 0.37888509035110474
                   2%||
                               | 3/160 [00:33<27:38, 10.56s/it]masks_dr unique: tensor([-7.4704
427 Epoch 18/499:
   , -7.4687, -7.4584, ..., 11.1622, 11.1671, 11.1706],
428
          grad fn=<Unique2Backward0>)
429 masks_dr unique: tensor([-7.4704, -7.4687, -7.4584, ..., 11.1622, 11.1671, 11.1706],
          grad_fn=<Unique2Backward0>)
431 Epoch 18/499: 2%|■
                               4/160 [00:42<26:25, 10.16s/it]print_dice: 0.5486961007118225
       print_iou: 0.378071129322052
432 masks_dr unique: tensor([-7.1884, -7.1726, -7.1722, ..., 11.5505, 11.5550, 11.5585],
          grad_fn=<Unique2Backward0>)
434 masks_dr unique: tensor([-7.1884, -7.1726, -7.1722, ..., 11.5505, 11.5550, 11.5585],
435
          grad_fn=<Unique2Backward0>)
436 print_dice: 0.49826309084892273, print_iou: 0.3317911922931671
437 Epoch 18/499:
                        | 5/160 [00:52<25:34, 9.90s/it]masks dr unique: tensor([-6.9641
                  3%|
   , -6.9563, -6.9505, ..., 10.9762, 10.9793, 10.9833],
438
          grad_fn=<Unique2Backward0>)
439 masks_dr unique: tensor([-6.9641, -6.9563, -6.9505, ..., 10.9762, 10.9793, 10.9833],
          grad_fn=<Unique2Backward0>)
441 print_dice: 0.5458204746246338, print_iou: 0.37534603476524353
, -7.3755, -7.3514, ..., 10.2232, 10.2235, 10.2269],
          grad fn=<Unique2Backward0>)
444 masks_dr unique: tensor([-7.3910, -7.3755, -7.3514, ..., 10.2232, 10.2235, 10.2269],
          grad fn=<Unique2Backward0>)
445
446 print dice: 0.5185779333114624, print iou: 0.35005414485931396
447 Epoch 18/499:
                   4%
                               7/160 [01:11<24:45, 9.71s/it]masks_dr unique: tensor([-7.2422
   , -7.2416, -7.2383, ..., 10.7586, 10.7632, 10.7636],
          grad fn=<Unique2Backward0>)
448
449 masks_dr unique: tensor([-7.2422, -7.2416, -7.2383, ..., 10.7586, 10.7632, 10.7636],
          grad fn=<Unique2Backward0>)
450
451 print_dice: 0.5612674951553345,
                                    print_iou: 0.3901124894618988
452 Epoch 18/499:
                   5%
                               8/160 [01:20<24:28, 9.66s/it]masks_dr unique: tensor([-7.3693
   , -7.3481, -7.3379, ..., 11.5309, 11.5332, 11.5380],
```

```
grad fn=<Unique2Backward0>)
454 masks dr unique: tensor([-7.3693, -7.3481, -7.3379, ..., 11.5309, 11.5332, 11.5380],
          grad fn=<Unique2Backward0>)
456 print_dice: 0.4617840647697449,
                                     print_iou: 0.30020758509635925
457 Epoch 18/499:
                   6%|
                                | 9/160 [01:30<24:05, 9.57s/it]masks_dr unique: tensor([-7.3202
    , -7.3044, -7.2828, ..., 10.2153, 10.2174, 10.2187],
          grad_fn=<Unique2Backward0>)
458
459 masks_dr unique: tensor([-7.3202, -7.3044, -7.2828, ..., 10.2153, 10.2174, 10.2187],
          grad_fn=<Unique2Backward0>)
461 Epoch 18/499:
                   6%
                                | 10/160 [01:39<23:55, 9.57s/it]print_dice: 0.43656376004219055
       print_iou: 0.27923348546028137
462 masks_dr unique: tensor([-7.2851, -7.2697, -7.2488, ..., 10.2159, 10.2172, 10.2189],
          grad fn=<Unique2Backward0>)
464 masks_dr unique: tensor([-7.2851, -7.2697, -7.2488, ..., 10.2159, 10.2172, 10.2189],
           grad fn=<Unique2Backward0>)
466 Epoch 18/499:
                  7%|
                                | 11/160 [01:49<23:40, 9.53s/it]print_dice: 0.5534150004386902
        print_iou: 0.38256654143333435
467 masks_dr unique: tensor([-7.2477, -7.2327, -7.2124, ..., 10.2259, 10.2279, 10.2294],
          grad_fn=<Unique2Backward0>)
469 masks_dr unique: tensor([-7.2477, -7.2327, -7.2124, ..., 10.2259, 10.2279, 10.2294],
          grad_fn=<Unique2Backward0>)
471 print_dice: 0.4665074646472931, print_iou: 0.30421242117881775
472 Epoch 18/499: 8%|■
                          | 12/160 [01:58<23:30, 9.53s/it]masks_dr unique: tensor([-7.
   0581, -7.0538, -7.0384, ..., 10.2667, 10.2698, 10.2707],
473
          grad_fn=<Unique2Backward0>)
474 masks dr unique: tensor([-7.0581, -7.0538, -7.0384, ..., 10.2667, 10.2698, 10.2707],
475
          grad fn=<Unique2Backward0>)
476 Epoch 18/499: 8%|■
                                | 13/160 [02:08<23:28, 9.58s/it]print_dice: 0.4969347417354584
       print_iou: 0.33061420917510986
477 masks_dr unique: tensor([-7.3692, -7.3395, -7.3339, ..., 10.6267, 10.6298, 10.6355],
          grad fn=<Unique2Backward0>)
479 masks_dr unique: tensor([-7.3692, -7.3395, -7.3339, ..., 10.6267, 10.6298, 10.6355],
          grad_fn=<Unique2Backward0>)
                   9%|
481 Epoch 18/499:
                                | 14/160 [02:17<23:20, 9.59s/it]print_dice: 0.5730317234992981
       print_iou: 0.4015728235244751
482 masks_dr unique: tensor([-7.3084, -7.2918, -7.2764, ..., 10.4049, 10.4091, 10.4109],
          grad_fn=<Unique2Backward0>)
483
484 masks_dr unique: tensor([-7.3084, -7.2918, -7.2764, ..., 10.4049, 10.4091, 10.4109],
          grad_fn=<Unique2Backward0>)
486 print dice: 0.5410864353179932, print_iou: 0.37088316679000854
                   9%
                                | 15/160 [02:27<23:00, 9.52s/it]masks_dr unique: tensor([-7.
487 Epoch 18/499:
   1852, -7.1693, -7.1633, ..., 10.2629, 10.2640, 10.2660],
488
          grad_fn=<Unique2Backward0>)
489 masks_dr unique: tensor([-7.1852, -7.1693, -7.1633, ..., 10.2629, 10.2640, 10.2660],
           grad_fn=<Unique2Backward0>)
491 Epoch 18/499: 10%
                                | 16/160 [02:36<22:46, 9.49s/it]print_dice: 0.39832112193107605
        print_iou: 0.24868975579738617
492 masks_dr unique: tensor([-7.5024, -7.4968, -7.4914, ..., 11.2984, 11.2996, 11.3062],
          grad_fn=<Unique2Backward0>)
494 masks_dr unique: tensor([-7.5024, -7.4968, -7.4914, ..., 11.2984, 11.2996, 11.3062],
          grad fn=<Unique2Backward0>)
496 Epoch 18/499: 11%
                                | 17/160 [02:46<22:44, 9.54s/it]print_dice: 0.5674992203712463
       print_iou: 0.396159827709198
497 masks_dr unique: tensor([-7.1767, -7.1605, -7.1551, ..., 10.2684, 10.2693, 10.2714],
          grad_fn=<Unique2Backward0>)
499 masks_dr unique: tensor([-7.1767, -7.1605, -7.1551, ..., 10.2684, 10.2693, 10.2714],
500
          grad_fn=<Unique2Backward0>)
501 print_dice: 0.4876076579093933,
                                     print iou: 0.32240819931030273
502 Epoch 18/499: 11%
                                | 18/160 [02:55<22:36, 9.55s/it]masks_dr unique: tensor([-7.
    1079, -7.1076, -7.0980, ..., 10.7688, 10.7762, 10.7772],
503
          grad_fn=<Unique2Backward0>)
504 masks_dr unique: tensor([-7.1079, -7.1076, -7.0980, ..., 10.7688, 10.7762, 10.7772],
          grad fn=<Unique2Backward0>)
505
506 Epoch 18/499: 12%
                                | 19/160 [03:05<22:19, 9.50s/it]print_dice: 0.5607420206069946
        print iou: 0.38960495591163635
507 masks_dr unique: tensor([-7.1756, -7.1596, -7.1540, ..., 10.2807, 10.2817, 10.2839],
           grad fn=<Unique2Backward0>)
509 masks_dr unique: tensor([-7.1756, -7.1596, -7.1540, ..., 10.2807, 10.2817, 10.2839],
          grad_fn=<Unique2Backward0>)
510
```

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20/160 [03:14<22:01, 9.44s/it]print dice: 0.4579487144947052
511 Epoch 18/499: 12%|■
       print iou: 0.29697370529174805
512 masks_dr unique: tensor([-6.8836, -6.8795, -6.8678, ..., 11.5343, 11.5379, 11.5422],
          grad_fn=<Unique2Backward0>)
514 masks_dr unique: tensor([-6.8836, -6.8795, -6.8678, ..., 11.5343, 11.5379, 11.5422],
          grad_fn=<Unique2Backward0>)
516 print_dice: 0.4808295965194702, print_iou: 0.3165079951286316
517 Epoch 18/499: 13%
                               | 21/160 [03:24<22:03, 9.52s/it]masks_dr unique: tensor([-7.
   1796, -7.1643, -7.1580, ..., 10.2917, 10.2931, 10.2952],
          grad fn=<Unique2Backward0>)
518
519 masks dr unique: tensor([-7.1796, -7.1643, -7.1580, ..., 10.2917, 10.2931, 10.2952],
          grad fn=<Unique2Backward0>)
520
521 Epoch 18/499: 14%
                               | 22/160 [03:33<21:54, 9.52s/it]print_dice: 0.5199477076530457
       print iou: 0.3513036072254181
522 masks dr unique: tensor([-7.0338, -7.0319, -7.0159, ..., 11.4923, 11.4943, 11.4958],
          grad_fn=<Unique2Backward0>)
524 masks_dr unique: tensor([-7.0338, -7.0319, -7.0159, ..., 11.4923, 11.4943, 11.4958],
          grad fn=<Unique2Backward0>)
526 Epoch 18/499: 14%|■
                                23/160 [03:43<21:45, 9.53s/it]print_dice: 0.5101718902587891
       print_iou: 0.3424367308616638
527 masks_dr unique: tensor([-7.1831, -7.1687, -7.1616, ..., 10.3019, 10.3030, 10.3053],
          grad_fn=<Unique2Backward0>)
529 masks_dr unique: tensor([-7.1831, -7.1687, -7.1616, ..., 10.3019, 10.3030, 10.3053],
          grad fn=<Unique2Backward0>)
531 Epoch 18/499: 15%
                                24/160 [03:52<21:30, 9.49s/it]print_dice: 0.579698920249939
       print_iou: 0.40815213322639465
532 masks dr unique: tensor([-7.3997, -7.3969, -7.3814, ..., 11.5594, 11.5633, 11.5673],
          grad_fn=<Unique2Backward0>)
534 masks_dr unique: tensor([-7.3997, -7.3969, -7.3814, ..., 11.5594, 11.5633, 11.5673],
          grad_fn=<Unique2Backward0>)
536 print_dice: 0.5508767366409302, print_iou: 0.3801448345184326
537 Epoch 18/499: 16% ■ | 25/160 [04:02<21:27, 9.54s/it]masks_dr unique: tensor([-7.
   1856, -7.1722, -7.1642, ..., 10.3126, 10.3136, 10.3159],
538
          grad_fn=<Unique2Backward0>)
539 masks_dr unique: tensor([-7.1856, -7.1722, -7.1642, ..., 10.3126, 10.3136, 10.3159],
          grad_fn=<Unique2Backward0>)
541 Epoch 18/499: 16%
                                26/160 [04:11<21:12, 9.50s/it]print_dice: 0.4696946144104004
       print_iou: 0.30692869424819946
542 masks_dr unique: tensor([-7.0062, -7.0045, -6.9895, ..., 11.5101, 11.5116, 11.5134],
          grad fn=<Unique2Backward0>)
544 masks_dr unique: tensor([-7.0062, -7.0045, -6.9895, ..., 11.5101, 11.5116, 11.5134],
          grad_fn=<Unique2Backward0>)
546 Epoch 18/499: 17% ■
                             27/160 [04:21<21:04, 9.51s/it]print_dice: 0.5723934173583984
       print_iou: 0.4009461998939514
547 masks_dr unique: tensor([-7.5227, -7.5196, -7.5090, ..., 11.5721, 11.5736, 11.5806],
          grad_fn=<Unique2Backward0>)
549 masks_dr unique: tensor([-7.5227, -7.5196, -7.5090, ..., 11.5721, 11.5736, 11.5806],
550
          grad_fn=<Unique2Backward0>)
551 print_dice: 0.4547499716281891, print_iou: 0.2942889332771301
552 Epoch 18/499: 18% ■ | 28/160 [04:30<20:54, 9.51s/it]masks_dr unique: tensor([-7.
   1976, -7.1856, -7.1763, ..., 10.3259, 10.3270, 10.3293],
553
          grad_fn=<Unique2Backward0>)
554 masks_dr unique: tensor([-7.1976, -7.1856, -7.1763, ..., 10.3259, 10.3270, 10.3293],
          grad fn=<Unique2Backward0>)
556 Epoch 18/499: 18%
                              29/160 [04:40<20:47, 9.52s/it]print_dice: 0.513605535030365
       print_iou: 0.34553784132003784
557 masks_dr unique: tensor([-7.1312, -7.1192, -7.1186, ..., 10.7998, 10.8036, 10.8037],
          grad_fn=<Unique2Backward0>)
558
559 masks_dr unique: tensor([-7.1312, -7.1192, -7.1186, ..., 10.7998, 10.8036, 10.8037],
          grad_fn=<Unique2Backward0>)
560
561 Epoch 18/499: 19%
                                30/160 [04:49<20:35, 9.50s/it]print_dice: 0.5478625297546387
       print_iou: 0.3772800862789154
562 masks_dr unique: tensor([-7.4459, -7.4435, -7.4337, ..., 10.8993, 10.9034, 10.9121],
          grad fn=<Unique2Backward0>)
564 masks dr unique: tensor([-7.4459, -7.4435, -7.4337, ..., 10.8993, 10.9034, 10.9121],
          grad_fn=<Unique2Backward0>)
566 Epoch 18/499: 19%
                                31/160 [04:59<20:25, 9.50s/it]print_dice: 0.4717889130115509
       print_iou: 0.3087197542190552
567 masks_dr unique: tensor([-7.0924, -7.0862, -7.0688, ..., 10.6378, 10.6407, 10.6493],
```

```
grad fn=<Unique2Backward0>)
569 masks_dr unique: tensor([-7.0924, -7.0862, -7.0688, ..., 10.6378, 10.6407, 10.6493],
          grad fn=<Unique2Backward0>)
571 print_dice: 0.47584253549575806,
                                     print_iou: 0.3122003972530365
572 Epoch 18/499: 20%
                           | 32/160 [05:08<20:20, 9.53s/it]masks_dr unique: tensor([-7.
   1483, -7.1430, -7.1422, ..., 10.7960, 10.7985, 10.8066],
          grad fn=<Unique2Backward0>)
573
574 masks_dr unique: tensor([-7.1483, -7.1430, -7.1422, ..., 10.7960, 10.7985, 10.8066],
          grad_fn=<Unique2Backward0>)
576 Epoch 18/499: 21%
                               33/160 [05:18<20:21, 9.62s/it]print_dice: 0.5379722118377686
       print_iou: 0.3679630756378174
577 masks_dr unique: tensor([-7.0463, -7.0453, -7.0339, ..., 11.6761, 11.6786, 11.6845],
          grad_fn=<Unique2Backward0>)
579 masks_dr unique: tensor([-7.0463, -7.0453, -7.0339, ..., 11.6761, 11.6786, 11.6845],
580
          grad fn=<Unique2Backward0>)
                               34/160 [05:28<20:04, 9.56s/it]print dice: 0.5551759600639343
581 Epoch 18/499: 21%
       print_iou: 0.38425159454345703
582 masks_dr unique: tensor([-7.3383, -7.3036, -7.3005, ..., 10.3390, 10.3439, 10.3496],
          grad_fn=<Unique2Backward0>)
584 masks_dr unique: tensor([-7.3383, -7.3036, -7.3005, ..., 10.3390, 10.3439, 10.3496],
          grad_fn=<Unique2Backward0>)
586 Epoch 18/499: 22%
                               | 35/160 [05:37<19:52, 9.54s/it]print_dice: 0.6119423508644104
       print iou: 0.4408623278141022
587 masks_dr unique: tensor([-7.1511, -7.1418, -7.1326, ..., 10.3465, 10.3484, 10.3502],
          grad_fn=<Unique2Backward0>)
589 masks_dr unique: tensor([-7.1511, -7.1418, -7.1326, ..., 10.3465, 10.3484, 10.3502],
          grad fn=<Unique2Backward0>)
591 print dice: 0.4924961030483246, print iou: 0.32669639587402344
592 Epoch 18/499: 22%
   0742, -7.0737, -7.0580, ..., 11.6294, 11.6326, 11.6392],
593
          grad_fn=<Unique2Backward0>)
594 masks_dr unique: tensor([-7.0742, -7.0737, -7.0580, ..., 11.6294, 11.6326, 11.6392],
          grad_fn=<Unique2Backward0>)
596 Epoch 18/499: 23%
                               37/160 [05:56<19:36, 9.57s/it]print_dice: 0.4352525770664215
       print_iou: 0.27816155552864075
597 masks_dr unique: tensor([-7.1415, -7.1331, -7.1247, ..., 10.3512, 10.3531, 10.3549],
          grad_fn=<Unique2Backward0>)
598
599 masks_dr unique: tensor([-7.1415, -7.1331, -7.1247, ..., 10.3512, 10.3531, 10.3549],
          grad_fn=<Unique2Backward0>)
601 print dice: 0.48284193873405457, print_iou: 0.3182542026042938
602 Epoch 18/499: 24%
                              | 38/160 [06:06<19:25, 9.56s/it]masks_dr unique: tensor([-7.
   3278, -7.3213, -7.3149, ..., 11.6769, 11.6771, 11.6791],
603
          grad_fn=<Unique2Backward0>)
604 masks_dr unique: tensor([-7.3278, -7.3213, -7.3149, ..., 11.6769, 11.6771, 11.6791],
          grad_fn=<Unique2Backward0>)
606 Epoch 18/499: 24%
                               | 39/160 [06:15<19:08, 9.50s/it]print_dice: 0.5762963891029358
       print_iou: 0.40478676557540894
607 masks_dr unique: tensor([-7.1393, -7.1318, -7.1242, ..., 10.3530, 10.3548, 10.3566],
          grad_fn=<Unique2Backward0>)
609 masks_dr unique: tensor([-7.1393, -7.1318, -7.1242, ..., 10.3530, 10.3548, 10.3566],
          grad_fn=<Unique2Backward0>)
610
611 print dice: 0.605478823184967, print iou: 0.4341840445995331
612 Epoch 18/499: 25%
                         | 40/160 [06:25<18:59, 9.50s/it]masks_dr unique: tensor([-7.
   3312, -7.3293, -7.3124, ..., 11.4225, 11.4245, 11.4256],
          grad_fn=<Unique2Backward0>)
614 masks_dr unique: tensor([-7.3312, -7.3293, -7.3124, ..., 11.4225, 11.4245, 11.4256],
615
          grad_fn=<Unique2Backward0>)
616 Epoch 18/499: 26%
                               41/160 [06:35<18:56, 9.55s/it]print_dice: 0.5114994645118713
       print iou: 0.3436340391635895
617 masks_dr unique: tensor([-6.9728, -6.9699, -6.9534, ..., 10.7767, 10.7793, 10.7834],
          grad_fn=<Unique2Backward0>)
619 masks dr unique: tensor([-6.9728, -6.9699, -6.9534, ..., 10.7767, 10.7793, 10.7834],
          grad_fn=<Unique2Backward0>)
620
                                42/160 [06:44<18:45, 9.54s/it]print dice: 0.4997769594192505
621 Epoch 18/499: 26%
       print iou: 0.33313509821891785
622 masks_dr unique: tensor([-7.1470, -7.1403, -7.1336, ..., 10.3523, 10.3536, 10.3556],
          grad fn=<Unique2Backward0>)
624 masks dr unique: tensor([-7.1470, -7.1403, -7.1336, ..., 10.3523, 10.3536, 10.3556],
          grad fn=<Unique2Backward0>)
625
```

```
626 print dice: 0.48741528391838074, print iou: 0.3222399950027466
627 Epoch 18/499: 27% 43/160 [06:53<18:32, 9.51s/it]masks_dr unique: tensor([-7.
   1285, -7.1212, -7.1042, ..., 10.8853, 10.8871, 10.8964],
          grad fn=<Unique2Backward0>)
628
629 masks_dr unique: tensor([-7.1285, -7.1212, -7.1042, ..., 10.8853, 10.8871, 10.8964],
          grad fn=<Unique2Backward0>)
631 Epoch 18/499: 28%
                            44/160 [07:03<18:21, 9.50s/it]print dice: 0.5433226823806763
       print_iou: 0.37298768758773804
632 masks_dr unique: tensor([-7.1268, -7.1239, -7.1065, ..., 10.8064, 10.8091, 10.8130],
          grad fn=<Unique2Backward0>)
634 masks_dr unique: tensor([-7.1268, -7.1239, -7.1065, ..., 10.8064, 10.8091, 10.8130],
635
          grad_fn=<Unique2Backward0>)
636 print_dice: 0.5353032350540161, print_iou: 0.36547034978866577
637 Epoch 18/499: 28% 45/160 [07:13<18:19, 9.56s/it]masks_dr unique: tensor([-7.
   2069, -7.2067, -7.1980, ..., 11.6702, 11.6717, 11.6722],
638
          grad_fn=<Unique2Backward0>)
639 masks_dr unique: tensor([-7.2069, -7.2067, -7.1980, ..., 11.6702, 11.6717, 11.6722],
          grad_fn=<Unique2Backward0>)
641 print_dice: 0.5566610097885132,
                                   print_iou: 0.3856758773326874
642 Epoch 18/499: 29% 46/160 [07:22<18:04, 9.52s/it]masks_dr unique: tensor([-7.
   1354, -7.1302, -7.1250, ..., 10.3533, 10.3541, 10.3560],
643
          grad_fn=<Unique2Backward0>)
644 masks dr unique: tensor([-7.1354, -7.1302, -7.1250, ..., 10.3533, 10.3541, 10.3560],
          grad_fn=<Unique2Backward0>)
646 print_dice: 0.5447566509246826, print_iou: 0.37434056401252747
                           | 47/160 [07:31<17:52, 9.49s/it]masks_dr unique: tensor([-7.
647 Epoch 18/499: 29%
   2381, -7.2345, -7.2250, \ldots, 11.7182, 11.7219, 11.7260],
648
          grad_fn=<Unique2Backward0>)
649 masks_dr unique: tensor([-7.2381, -7.2345, -7.2250, ..., 11.7182, 11.7219, 11.7260],
          grad_fn=<Unique2Backward0>)
651 print_dice: 0.5085034370422363, print_iou: 0.34093502163887024
652 Epoch 18/499: 30% 48/160 [07:41<17:43, 9.50s/it]masks_dr unique: tensor([-7.
   2408, -7.2382, -7.2355, ..., 10.9604, 10.9616, 10.9697],
653
          grad_fn=<Unique2Backward0>)
654 masks_dr unique: tensor([-7.2408, -7.2382, -7.2355, ..., 10.9604, 10.9616, 10.9697],
          grad_fn=<Unique2Backward0>)
656 Epoch 18/499: 31%
                               49/160 [07:50<17:33, 9.49s/it]print_dice: 0.4646345376968384
       print_iou: 0.302621454000473
657 masks_dr unique: tensor([-7.1312, -7.1045, -7.0992, ..., 10.3599, 10.3631, 10.3696],
          grad fn=<Unique2Backward0>)
659 masks_dr unique: tensor([-7.1312, -7.1045, -7.0992, ..., 10.3599, 10.3631, 10.3696],
          grad_fn=<Unique2Backward0>)
661 Epoch 18/499: 31%
                               50/160 [08:00<17:24, 9.50s/it]print_dice: 0.5079757571220398
       print_iou: 0.34046077728271484
662 masks_dr unique: tensor([-7.2160, -7.2107, -7.1964, ..., 11.4646, 11.4661, 11.4678],
          grad_fn=<Unique2Backward0>)
664 masks_dr unique: tensor([-7.2160, -7.2107, -7.1964, ..., 11.4646, 11.4661, 11.4678],
          grad_fn=<Unique2Backward0>)
666 print_dice: 0.5283026099205017, print_iou: 0.35897505283355713
667 Epoch 18/499: 32%| | 51/160 [08:09<17:14, 9.49s/it]masks_dr unique: tensor([-7.
   1710, -7.1665, -7.1517, ..., 10.3563, 10.3569, 10.3576],
          grad_fn=<Unique2Backward0>)
668
669 masks_dr unique: tensor([-7.1710, -7.1665, -7.1517, ..., 10.3563, 10.3569, 10.3576],
          grad fn=<Unique2Backward0>)
671 Epoch 18/499: 32%
                              52/160 [08:19<17:07, 9.52s/it]print_dice: 0.4677794277667999
       print_iou: 0.30529507994651794
672 masks dr unique: tensor([-7.0728, -7.0719, -7.0716, ..., 10.6020, 10.6055, 10.6123],
          grad_fn=<Unique2Backward0>)
674 masks_dr unique: tensor([-7.0728, -7.0719, -7.0716, ..., 10.6020, 10.6055, 10.6123],
          grad fn=<Unique2Backward0>)
675
676 Epoch 18/499: 33%
                                | 53/160 [08:29<16:57, 9.51s/it]print dice: 0.5289570689201355
       print_iou: 0.3595796227455139
677 masks_dr unique: tensor([-7.0204, -7.0168, -6.9990, ..., 11.6440, 11.6449, 11.6506],
          grad fn=<Unique2Backward0>)
678
679 masks_dr unique: tensor([-7.0204, -7.0168, -6.9990, ..., 11.6440, 11.6449, 11.6506],
          grad_fn=<Unique2Backward0>)
680
681 print dice: 0.6102613210678101,
                                    print iou: 0.43911945819854736
682 Epoch 18/499: 34%
                                54/160 [08:38<16:49, 9.52s/it]masks_dr unique: tensor([-7.
   1910, -7.1850, -7.1756, ..., 10.7947, 10.8029, 10.8081],
```

```
grad fn=<Unique2Backward0>)
684 masks_dr unique: tensor([-7.1910, -7.1850, -7.1756, ..., 10.7947, 10.8029, 10.8081],
          grad fn=<Unique2Backward0>)
686 Epoch 18/499: 34%
                                55/160 [08:48<16:37, 9.50s/it]print_dice: 0.4680362641811371
       print iou: 0.3055139482021332
687 masks_dr unique: tensor([-7.2269, -7.2223, -7.2068, ..., 10.3763, 10.3767, 10.3792],
          grad_fn=<Unique2Backward0>)
689 masks_dr unique: tensor([-7.2269, -7.2223, -7.2068, ..., 10.3763, 10.3767, 10.3792],
          grad_fn=<Unique2Backward0>)
691 print_dice: 0.42887434363365173, print_iou: 0.27297264337539673
692 Epoch 18/499: 35%
                              56/160 [08:57<16:34, 9.57s/it]masks_dr unique: tensor([-7.
   2576, -7.2488, -7.2344, ..., 11.8612, 11.8628, 11.8639],
          grad fn=<Unique2Backward0>)
693
694 masks_dr unique: tensor([-7.2576, -7.2488, -7.2344, ..., 11.8612, 11.8628, 11.8639],
695
          grad fn=<Unique2Backward0>)
696 Epoch 18/499: 36%
                                57/160 [09:07<16:25, 9.57s/it]print_dice: 0.5865318179130554
       print_iou: 0.4149593412876129
697 masks_dr unique: tensor([-6.9042, -6.9031, -6.8985, ..., 11.4615, 11.4624, 11.4648],
          grad_fn=<Unique2Backward0>)
699 masks_dr unique: tensor([-6.9042, -6.9031, -6.8985, ..., 11.4615, 11.4624, 11.4648],
          grad_fn=<Unique2Backward0>)
701 Epoch 18/499: 36%
                                58/160 [09:16<16:12, 9.54s/it]print_dice: 0.5138210654258728
       print iou: 0.34573298692703247
702 masks_dr unique: tensor([-7.3998, -7.3917, -7.3784, ..., 10.6868, 10.6943, 10.6974],
          grad fn=<Unique2Backward0>)
704 masks dr unique: tensor([-7.3998, -7.3917, -7.3784, ..., 10.6868, 10.6943, 10.6974],
          grad fn=<Unique2Backward0>)
706 Epoch 18/499: 37%
                              59/160 [09:26<16:06, 9.57s/it]print_dice: 0.4988221526145935
       print_iou: 0.3322871923446655
707 masks_dr unique: tensor([-7.0895, -7.0879, -7.0769, ..., 11.7111, 11.7158, 11.7180],
          grad fn=<Unique2Backward0>)
709 masks_dr unique: tensor([-7.0895, -7.0879, -7.0769, ..., 11.7111, 11.7158, 11.7180],
          grad fn=<Unique2Backward0>)
711 Epoch 18/499: 38%
                                60/160 [09:35<15:52, 9.53s/it]print_dice: 0.5138148069381714
       print iou: 0.3457273244857788
712 masks_dr unique: tensor([-7.2602, -7.2476, -7.2393, ..., 10.9642, 10.9737, 10.9760],
          grad_fn=<Unique2Backward0>)
713
714 masks_dr unique: tensor([-7.2602, -7.2476, -7.2393, ..., 10.9642, 10.9737, 10.9760],
          grad_fn=<Unique2Backward0>)
716 print dice: 0.5371250510215759, print_iou: 0.3671708405017853
717 Epoch 18/499: 38%
                              61/160 [09:45<15:46, 9.56s/it]masks_dr unique: tensor([-7.
   1304, -7.1231, -7.1170, ..., 10.6841, 10.6908, 10.6911],
718
          grad_fn=<Unique2Backward0>)
719 masks_dr unique: tensor([-7.1304, -7.1231, -7.1170, ..., 10.6841, 10.6908, 10.6911],
720
          grad_fn=<Unique2Backward0>)
721 print_dice: 0.54059898853302, print_iou: 0.3704252541065216
722 Epoch 18/499: 39% 62/160 [09:54<15:32, 9.51s/it]masks_dr unique: tensor([-7.
   3390, -7.3288, -7.3204, ..., 10.7134, 10.7141, 10.7176],
723
          grad_fn=<Unique2Backward0>)
724 masks_dr unique: tensor([-7.3390, -7.3288, -7.3204, ..., 10.7134, 10.7141, 10.7176],
725
          grad_fn=<Unique2Backward0>)
726 Epoch 18/499: 39%
                                63/160 [10:04<15:25, 9.54s/it]print_dice: 0.5405139327049255
       print_iou: 0.3703453838825226
727 masks_dr unique: tensor([-7.3188, -7.3132, -7.2956, ..., 10.3666, 10.3677, 10.3704],
          grad_fn=<Unique2Backward0>)
729 masks_dr unique: tensor([-7.3188, -7.3132, -7.2956, ..., 10.3666, 10.3677, 10.3704],
          grad fn=<Unique2Backward0>)
730
731 Epoch 18/499: 40%|
                                | 64/160 [10:14<15:17, 9.56s/it]print_dice: 0.5307360887527466
       print iou: 0.36122584342956543
732 masks dr unique: tensor([-7.3584, -7.3435, -7.3428, ..., 10.8820, 10.8906, 10.8935],
          grad fn=<Unique2Backward0>)
734 masks dr unique: tensor([-7.3584, -7.3435, -7.3428, ..., 10.8820, 10.8906, 10.8935],
          grad_fn=<Unique2Backward0>)
735
736 Epoch 18/499: 41%
                                | 65/160 [10:23<15:09, 9.57s/it]print dice: 0.5351153612136841
       print_iou: 0.3652952313423157
737 masks_dr unique: tensor([-7.2452, -7.2193, -7.2170, ..., 10.9980, 11.0045, 11.0083],
738
          grad fn=<Unique2Backward0>)
739 masks dr unique: tensor([-7.2452, -7.2193, -7.2170, ..., 10.9980, 11.0045, 11.0083],
          grad fn=<Unique2Backward0>)
740
```

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741 print dice: 0.6001909971237183, print iou: 0.4287663698196411
742 Epoch 18/499: 41% 66/160 [10:33<14:52, 9.49s/it] masks_dr unique: tensor([-7.
   3415, -7.3349, -7.3159, ..., 10.3664, 10.3667, 10.3697],
743
          grad fn=<Unique2Backward0>)
744 masks_dr unique: tensor([-7.3415, -7.3349, -7.3159, ..., 10.3664, 10.3667, 10.3697],
          grad_fn=<Unique2Backward0>)
746 print_dice: 0.4491102397441864, print_iou: 0.2895823121070862
747 Epoch 18/499: 42%
   3554, -7.3485, -7.3289, ..., 10.3620, 10.3627, 10.3657],
748
          grad fn=<Unique2Backward0>)
749 masks_dr unique: tensor([-7.3554, -7.3485, -7.3289, ..., 10.3620, 10.3627, 10.3657],
          grad_fn=<Unique2Backward0>)
751 Epoch 18/499: 42%
                             68/160 [10:51<14:29, 9.45s/it]print_dice: 0.5167549252510071
       print iou: 0.34839484095573425
752 masks dr unique: tensor([-7.4124, -7.4039, -7.3936, ..., 11.7259, 11.7271, 11.7327],
          grad fn=<Unique2Backward0>)
754 masks_dr unique: tensor([-7.4124, -7.4039, -7.3936, ..., 11.7259, 11.7271, 11.7327],
          grad fn=<Unique2Backward0>)
                               | 69/160 [11:01<14:21, 9.47s/it]print_dice: 0.5155509114265442
756 Epoch 18/499: 43%
       print_iou: 0.347301185131073
757 masks_dr unique: tensor([-7.2658, -7.2624, -7.2589, ..., 11.6016, 11.6019, 11.6047],
          grad_fn=<Unique2Backward0>)
759 masks_dr unique: tensor([-7.2658, -7.2624, -7.2589, ..., 11.6016, 11.6019, 11.6047],
          grad_fn=<Unique2Backward0>)
761 print dice: 0.5543373823165894, print iou: 0.38344863057136536
762 Epoch 18/499: 44%| 70/160 [11:10<14:13, 9.49s/it]masks_dr unique: tensor([-6.
   8980, -6.8955, -6.8806, ..., 10.5131, 10.5178, 10.5253],
763
          grad_fn=<Unique2Backward0>)
764 masks dr unique: tensor([-6.8980, -6.8955, -6.8806, ..., 10.5131, 10.5178, 10.5253],
          grad fn=<Unique2Backward0>)
766 print_dice: 0.4601915180683136, print_iou: 0.2988628149032593
767 Epoch 18/499: 44%| 71/160 [11:20<14:07, 9.52s/it]masks_dr unique: tensor([-7.
   6188, -7.5984, -7.5855, ..., 11.3387, 11.3462, 11.3519],
768
          grad_fn=<Unique2Backward0>)
769 masks_dr unique: tensor([-7.6188, -7.5984, -7.5855, ..., 11.3387, 11.3462, 11.3519],
          grad_fn=<Unique2Backward0>)
771 Epoch 18/499: 45%
                               72/160 [11:29<13:56, 9.51s/it]print_dice: 0.568432629108429
       print_iou: 0.39707010984420776
772 masks_dr unique: tensor([-6.8445, -6.8438, -6.8389, ..., 10.8121, 10.8174, 10.8204],
          grad fn=<Unique2Backward0>)
774 masks_dr unique: tensor([-6.8445, -6.8438, -6.8389, ..., 10.8121, 10.8174, 10.8204],
          grad_fn=<Unique2Backward0>)
776 Epoch 18/499: 46%
                               73/160 [11:39<13:48, 9.52s/it]print_dice: 0.515055775642395
       print_iou: 0.3468519449234009
777 masks_dr unique: tensor([-6.9782, -6.9562, -6.9475, ..., 10.6534, 10.6577, 10.6613],
          grad_fn=<Unique2Backward0>)
779 masks_dr unique: tensor([-6.9782, -6.9562, -6.9475, ..., 10.6534, 10.6577, 10.6613],
780
          grad_fn=<Unique2Backward0>)
781 print_dice: 0.5515671968460083, print_iou: 0.3808027505874634
782 Epoch 18/499: 46%| 74/160 [11:49<13:38, 9.51s/it]masks_dr unique: tensor([-7.
   3965, -7.3890, -7.3682, ..., 10.3424, 10.3425, 10.3495],
783
          grad_fn=<Unique2Backward0>)
784 masks_dr unique: tensor([-7.3965, -7.3890, -7.3682, ..., 10.3424, 10.3425, 10.3495],
          grad_fn=<Unique2Backward0>)
786 Epoch 18/499: 47%
                             | 75/160 [11:58<13:25, 9.47s/it]print_dice: 0.44832465052604675
       print_iou: 0.28892940282821655
787 masks_dr unique: tensor([-6.9735, -6.9655, -6.9593, ..., 10.4663, 10.4719, 10.4738],
          grad fn=<Unique2Backward0>)
789 masks dr unique: tensor([-6.9735, -6.9655, -6.9593, \ldots, 10.4663, 10.4719, 10.4738]
          grad_fn=<Unique2Backward0>)
790
791 Epoch 18/499: 48%
                               76/160 [12:07<13:15, 9.47s/it]print_dice: 0.5728415846824646
       print_iou: 0.4013861119747162
792 masks_dr unique: tensor([-7.4013, -7.3936, -7.3724, ..., 10.3378, 10.3380, 10.3391],
          grad fn=<Unique2Backward0>)
794 masks_dr unique: tensor([-7.4013, -7.3936, -7.3724, ..., 10.3378, 10.3380, 10.3391],
          grad_fn=<Unique2Backward0>)
796 print dice: 0.5349958539009094,
                                    print_iou: 0.36518386006355286
                               | 77/160 [12:17<13:06, 9.47s/it]masks dr unique: tensor([-7.
797 Epoch 18/499: 48%
   1655, -7.1519, -7.1495, ..., 11.0630, 11.0630, 11.0647],
```

```
grad fn=<Unique2Backward0>)
799 masks dr unique: tensor([-7.1655, -7.1519, -7.1495, ..., 11.0630, 11.0630, 11.0647],
          grad fn=<Unique2Backward0>)
801 print_dice: 0.6133195161819458,
                                    print iou: 0.44229331612586975
802 Epoch 18/499: 49%| 78/160 [12:26<12:53, 9.44s/it]masks_dr unique: tensor([-7.
   4013, -7.3937, -7.3725, ..., 10.3407, 10.3440, 10.3463],
          grad_fn=<Unique2Backward0>)
803
804 masks_dr unique: tensor([-7.4013, -7.3937, -7.3725, ..., 10.3407, 10.3440, 10.3463],
          grad_fn=<Unique2Backward0>)
806 print dice: 0.5914881229400635, print iou: 0.4199383556842804
807 Epoch 18/499: 49% 79/160 [12:36<12:46, 9.46s/it] masks_dr unique: tensor([-7.
   4707, -7.4647, -7.4484, ..., 11.2630, 11.2657, 11.2694],
808
          grad_fn=<Unique2Backward0>)
809 masks dr unique: tensor([-7.4707, -7.4647, -7.4484, ..., 11.2630, 11.2657, 11.2694],
          grad fn=<Unique2Backward0>)
810
811 print_dice: 0.4520202577114105, print_iou: 0.29200658202171326
812 Epoch 18/499: 50% 80/160 [12:45<12:41, 9.52s/it] masks_dr unique: tensor([-7.
   0605, -7.0570, -7.0535, ..., 11.4534, 11.4547, 11.4561],
813
          grad_fn=<Unique2Backward0>)
814 masks_dr unique: tensor([-7.0605, -7.0570, -7.0535, ..., 11.4534, 11.4547, 11.4561],
          grad_fn=<Unique2Backward0>)
816 print_dice: 0.6397284865379333, print_iou: 0.47029468417167664
817 Epoch 18/499: 51% 81/160 [12:55<12:30, 9.50s/it] masks_dr unique: tensor([-7.
   0587, -7.0556, -7.0550, ..., 11.6314, 11.6319, 11.6335],
          grad_fn=<Unique2Backward0>)
818
819 masks_dr unique: tensor([-7.0587, -7.0556, -7.0550, ..., 11.6314, 11.6319, 11.6335],
          grad fn=<Unique2Backward0>)
821 print dice: 0.42420080304145813, print iou: 0.2691972255706787
822 Epoch 18/499: 51%| | 82/160 [13:04<12:25, 9.55s/it]masks_dr unique: tensor([-7.
   3648, -7.3578, -7.3377, ..., 10.3718, 10.3741, 10.3764],
823
          grad_fn=<Unique2Backward0>)
824 masks_dr unique: tensor([-7.3648, -7.3578, -7.3377, ..., 10.3718, 10.3741, 10.3764],
          grad_fn=<Unique2Backward0>)
826 Epoch 18/499: 52%
                                83/160 [13:14<12:14, 9.54s/it]print_dice: 0.5249592065811157
       print_iou: 0.35589471459388733
827 masks_dr unique: tensor([-7.4943, -7.4799, -7.4765, ..., 11.2401, 11.2455, 11.2500],
828
          grad_fn=<Unique2Backward0>)
829 masks_dr unique: tensor([-7.4943, -7.4799, -7.4765, ..., 11.2401, 11.2455, 11.2500],
          grad_fn=<Unique2Backward0>)
831 Epoch 18/499: 52%
                                84/160 [13:24<12:05, 9.54s/it]print_dice: 0.478096604347229
       print_iou: 0.3141438663005829
832 masks_dr unique: tensor([-7.3566, -7.3502, -7.3311, ..., 10.3772, 10.3789, 10.3816],
          grad_fn=<Unique2Backward0>)
834 masks_dr unique: tensor([-7.3566, -7.3502, -7.3311, ..., 10.3772, 10.3789, 10.3816],
835
          grad_fn=<Unique2Backward0>)
836 Epoch 18/499: 53%
                               85/160 [13:33<11:52, 9.50s/it]print_dice: 0.519562304019928
       print_iou: 0.35095182061195374
837 masks_dr unique: tensor([-7.1580, -7.1472, -7.1412, ..., 10.3836, 10.3878, 10.3905],
838
          grad_fn=<Unique2Backward0>)
839 masks dr unique: tensor([-7.1580, -7.1472, -7.1412, ..., 10.3836, 10.3878, 10.3905],
          grad_fn=<Unique2Backward0>)
841 print dice: 0.5039777755737305, print iou: 0.33687853813171387
842 Epoch 18/499: 54%| | 86/160 [13:43<11:44, 9.52s/it]masks_dr unique: tensor([-7.
   3624, -7.3622, -7.3533, ..., 11.7202, 11.7216, 11.7221],
          grad_fn=<Unique2Backward0>)
844 masks_dr unique: tensor([-7.3624, -7.3622, -7.3533, ..., 11.7202, 11.7216, 11.7221],
845
          grad_fn=<Unique2Backward0>)
846 Epoch 18/499: 54%
                                87/160 [13:52<11:32, 9.49s/it]print_dice: 0.5189324617385864
       print iou: 0.35037729144096375
847 masks_dr unique: tensor([-7.3712, -7.3692, -7.3653, ..., 11.6525, 11.6525, 11.6548],
          grad fn=<Unique2Backward0>)
849 masks dr unique: tensor([-7.3712, -7.3692, -7.3653, ..., 11.6525, 11.6525, 11.6548],
          grad_fn=<Unique2Backward0>)
850
851 Epoch 18/499: 55%
                                88/160 [14:02<11:25, 9.52s/it]print_dice: 0.48681026697158813
       print iou: 0.32171133160591125
852 masks_dr unique: tensor([-7.6735, -7.6684, -7.6641, ..., 11.5021, 11.5050, 11.5079],
          grad fn=<Unique2Backward0>)
854 masks dr unique: tensor([-7.6735, -7.6684, -7.6641, ..., 11.5021, 11.5050, 11.5079],
          grad_fn=<Unique2Backward0>)
855
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856 Epoch 18/499: 56% 89/160 [14:11<11:19, 9.57s/it]print dice: 0.5407086610794067
       print_iou: 0.3705282509326935
857 masks_dr unique: tensor([-7.4382, -7.4367, -7.4299, ..., 11.6789, 11.6791, 11.6801],
          grad_fn=<Unique2Backward0>)
859 masks_dr unique: tensor([-7.4382, -7.4367, -7.4299, ..., 11.6789, 11.6791, 11.6801],
          grad_fn=<Unique2Backward0>)
                               90/160 [14:21<11:11, 9.59s/it]print dice: 0.5346646308898926
861 Epoch 18/499: 56%
       print_iou: 0.36487528681755066
862 masks_dr unique: tensor([-6.8328, -6.8288, -6.8240, ..., 11.3216, 11.3218, 11.3252],
          grad fn=<Unique2Backward0>)
864 masks dr unique: tensor([-6.8328, -6.8288, -6.8240, ..., 11.3216, 11.3218, 11.3252],
          grad_fn=<Unique2Backward0>)
866 Epoch 18/499: 57%
                             91/160 [14:30<10:57, 9.53s/it]print_dice: 0.5078203082084656
       print iou: 0.3403211534023285
867 masks dr unique: tensor([-7.2180, -7.1970, -7.1937, ..., 10.7103, 10.7132, 10.7174],
          grad fn=<Unique2Backward0>)
869 masks_dr unique: tensor([-7.2180, -7.1970, -7.1937, ..., 10.7103, 10.7132, 10.7174],
          grad_fn=<Unique2Backward0>)
871 print_dice: 0.5478022694587708, print_iou: 0.3772229254245758
872 Epoch 18/499: 57% 92/160 [14:40<10:48, 9.54s/it]masks_dr unique: tensor([-7.
   3401, -7.3358, -7.3196, ..., 10.3948, 10.3956, 10.3990],
873
          grad_fn=<Unique2Backward0>)
874 masks_dr unique: tensor([-7.3401, -7.3358, -7.3196, ..., 10.3948, 10.3956, 10.3990],
          grad_fn=<Unique2Backward0>)
876 Epoch 18/499: 58%
                             93/160 [14:49<10:41, 9.58s/it]print_dice: 0.5448821187019348
       print iou: 0.37445908784866333
877 masks_dr unique: tensor([-7.3372, -7.3332, -7.3175, ..., 10.3869, 10.3871, 10.3910],
          grad_fn=<Unique2Backward0>)
879 masks_dr unique: tensor([-7.3372, -7.3332, -7.3175, ..., 10.3869, 10.3871, 10.3910],
          grad fn=<Unique2Backward0>)
881 Epoch 18/499: 59% 94/160 [14:59<10:33, 9.59s/it]print dice: 0.48214706778526306
       print_iou: 0.317650705575943
882 masks_dr unique: tensor([-7.3237, -7.3228, -7.3136, ..., 11.7421, 11.7436, 11.7448],
          grad_fn=<Unique2Backward0>)
884 masks_dr unique: tensor([-7.3237, -7.3228, -7.3136, ..., 11.7421, 11.7436, 11.7448],
          grad_fn=<Unique2Backward0>)
886 Epoch 18/499: 59%
                             95/160 [15:09<10:20, 9.54s/it]print_dice: 0.5354645252227783
       print_iou: 0.36562076210975647
887 masks_dr unique: tensor([-7.3419, -7.3387, -7.3239, ..., 10.3946, 10.3950, 10.3991],
          grad fn=<Unique2Backward0>)
889 masks dr unique: tensor([-7.3419, -7.3387, -7.3239, ..., 10.3946, 10.3950, 10.3991],
          grad_fn=<Unique2Backward0>)
891 Epoch 18/499: 60%| 96/160 [15:18<10:07, 9.49s/it]print_dice: 0.5517065525054932
       print_iou: 0.3809356093406677
892 masks_dr unique: tensor([-7.4925, -7.4899, -7.4867, ..., 11.7380, 11.7396, 11.7438],
          grad_fn=<Unique2Backward0>)
894 masks_dr unique: tensor([-7.4925, -7.4899, -7.4867, ..., 11.7380, 11.7396, 11.7438],
895
          grad_fn=<Unique2Backward0>)
896 print_dice: 0.5353350043296814, print_iou: 0.36549997329711914
3466, -7.3441, -7.3303, ..., 10.3917, 10.3922, 10.3967],
898
          grad_fn=<Unique2Backward0>)
899 masks_dr unique: tensor([-7.3466, -7.3441, -7.3303, ..., 10.3917, 10.3922, 10.3967],
900
          grad_fn=<Unique2Backward0>)
                             98/160 [15:38<09:58, 9.66s/it]print_dice: 0.44263964891433716
901 Epoch 18/499: 61%
       print_iou: 0.2842243015766144
902 masks_dr unique: tensor([-7.2372, -7.2114, -7.2090, ..., 10.4209, 10.4238, 10.4273],
          grad_fn=<Unique2Backward0>)
904 masks_dr unique: tensor([-7.2372, -7.2114, -7.2090, ..., 10.4209, 10.4238, 10.4273],
          grad fn=<Unique2Backward0>)
905
906 print_dice: 0.5497134327888489, print_iou: 0.3790377974510193
                              | 99/160 [15:47<09:48, 9.65s/it]masks_dr unique: tensor([-7.
907 Epoch 18/499: 62%
   3456, -7.3439, -7.3312, ..., 10.3980, 10.3984, 10.4036],
908
          grad_fn=<Unique2Backward0>)
909 masks dr unique: tensor([-7.3456, -7.3439, -7.3312, ..., 10.3980, 10.3984, 10.4036],
          grad fn=<Unique2Backward0>)
910
911 Epoch 18/499: 62%
                               | 100/160 [15:57<09:37, 9.63s/it]print_dice: 0.5415655970573425
       print_iou: 0.3713335394859314
912 masks_dr unique: tensor([-7.3631, -7.3484, -7.3472, ..., 10.7912, 10.7933, 10.7982],
```

```
grad fn=<Unique2Backward0>)
914 masks_dr unique: tensor([-7.3631, -7.3484, -7.3472, ..., 10.7912, 10.7933, 10.7982],
          grad fn=<Unique2Backward0>)
                               | 101/160 [16:06<09:29, 9.65s/it]print_dice: 0.4873030185699463
916 Epoch 18/499: 63%
       print_iou: 0.3221418559551239
917 [100/160] eta: 0:09:34
                               time: 9.5830 data: 0.0005
918 masks dr unique: tensor([-7.6911, -7.6887, -7.6663, ..., 11.2019, 11.2035, 11.2107],
          grad_fn=<Unique2Backward0>)
920 masks_dr unique: tensor([-7.6911, -7.6887, -7.6663, ..., 11.2019, 11.2035, 11.2107],
          grad fn=<Unique2Backward0>)
921
922 Epoch 18/499: 64%
                               | 102/160 [16:16<09:21, 9.67s/it]print_dice: 0.5267086625099182
       print iou: 0.3575047552585602
923 masks_dr unique: tensor([-7.3373, -7.3365, -7.3250, ..., 10.3952, 10.3955, 10.4010],
          grad fn=<Unique2Backward0>)
925 masks dr unique: tensor([-7.3373, -7.3365, -7.3250, ..., 10.3952, 10.3955, 10.4010],
          grad fn=<Unique2Backward0>)
927 Epoch 18/499: 64%| | 103/160 [16:26<09:07, 9.61s/it]print_dice: 0.5113723874092102
       print_iou: 0.34351933002471924
928 masks_dr unique: tensor([-7.3335, -7.3326, -7.3210, ..., 10.3959, 10.3974, 10.3977],
          grad_fn=<Unique2Backward0>)
930 masks_dr unique: tensor([-7.3335, -7.3326, -7.3210, ..., 10.3959, 10.3974, 10.3977],
          grad_fn=<Unique2Backward0>)
932 Epoch 18/499: 65%
                               | 104/160 [16:35<08:56, 9.58s/it]print_dice: 0.5147449970245361
       print_iou: 0.34657010436058044
933 masks_dr unique: tensor([-7.3055, -7.3054, -7.2938, ..., 10.9206, 10.9238, 10.9239],
934
          grad_fn=<Unique2Backward0>)
935 masks_dr unique: tensor([-7.3055, -7.3054, -7.2938, ..., 10.9206, 10.9238, 10.9239],
          grad fn=<Unique2Backward0>)
937 print_dice: 0.5999884009361267, print_iou: 0.4285595715045929
938 Epoch 18/499: 66%
   2189, -7.2009, -7.1985, ..., 10.2249, 10.2261, 10.2297],
939
          grad_fn=<Unique2Backward0>)
940 masks_dr unique: tensor([-7.2189, -7.2009, -7.1985, ..., 10.2249, 10.2261, 10.2297],
          grad fn=<Unique2Backward0>)
942 Epoch 18/499: 66% | 106/160 [16:54<08:31, 9.48s/it]print_dice: 0.5109806656837463
       print_iou: 0.34316587448120117
943 masks_dr unique: tensor([-7.3225, -7.3214, -7.3097, ..., 10.4088, 10.4109, 10.4111],
          grad_fn=<Unique2Backward0>)
945 masks_dr unique: tensor([-7.3225, -7.3214, -7.3097, ..., 10.4088, 10.4109, 10.4111],
          grad fn=<Unique2Backward0>)
947 Epoch 18/499: 67%| | 107/160 [17:04<08:23, 9.51s/it]print_dice: 0.
   49076077342033386, print_iou: 0.32517096400260925
948 masks_dr unique: tensor([-7.2226, -7.2212, -7.2188, ..., 10.5536, 10.5538, 10.5585],
          grad_fn=<Unique2Backward0>)
950 masks_dr unique: tensor([-7.2226, -7.2212, -7.2188, ..., 10.5536, 10.5538, 10.5585],
          grad_fn=<Unique2Backward0>)
952 Epoch 18/499: 68% | 108/160 [17:13<08:16, 9.54s/it]print_dice: 0.5457462668418884
       print_iou: 0.37527579069137573
953 masks_dr unique: tensor([-7.3254, -7.3243, -7.3124, ..., 10.4286, 10.4286, 10.4450],
          grad_fn=<Unique2Backward0>)
955 masks_dr unique: tensor([-7.3254, -7.3243, -7.3124, ..., 10.4286, 10.4286, 10.4450],
          grad_fn=<Unique2Backward0>)
956
957 Epoch 18/499: 68% | 109/160 [17:23<08:08, 9.58s/it]print dice: 0.
   49484580755233765, print_iou: 0.3287675380706787
958 masks_dr unique: tensor([-7.3321, -7.3306, -7.3195, ..., 10.4534, 10.4554, 10.4719],
          grad_fn=<Unique2Backward0>)
959
960 masks_dr unique: tensor([-7.3321, -7.3306, -7.3195, ..., 10.4534, 10.4554, 10.4719],
          grad fn=<Unique2Backward0>)
962 print dice: 0.5346528887748718,
                                   print iou: 0.364864319562912
963 Epoch 18/499: 69%| | 110/160 [17:32<07:57, 9.55s/it]masks_dr unique: tensor([-7.
   3349, -7.3332, -7.3291, ..., 10.4767, 10.4789, 10.4950],
964
          grad_fn=<Unique2Backward0>)
965 masks_dr unique: tensor([-7.3349, -7.3332, -7.3291, ..., 10.4767, 10.4789, 10.4950],
          grad_fn=<Unique2Backward0>)
966
967 Epoch 18/499: 69% | 111/160 [17:42<07:47, 9.54s/it]print_dice: 0.
   48814254999160767,
                       print_iou: 0.3228760361671448
968 masks_dr unique: tensor([-7.0296, -7.0253, -7.0134, ..., 10.5128, 10.5169, 10.5186],
969
          grad_fn=<Unique2Backward0>)
970 masks dr unique: tensor([-7.0296, -7.0253, -7.0134, ..., 10.5128, 10.5169, 10.5186],
```

```
grad fn=<Unique2Backward0>)
971
972 Epoch 18/499: 70% | 112/160 [17:51<07:37, 9.54s/it]print_dice: 0.
    5279156565666199, print_iou: 0.3586178123950958
973 masks_dr unique: tensor([-7.3520, -7.3504, -7.3498, ..., 10.4882, 10.4909, 10.4935],
           grad_fn=<Unique2Backward0>)
975 masks_dr unique: tensor([-7.3520, -7.3504, -7.3498, ..., 10.4882, 10.4909, 10.4935],
           grad fn=<Unique2Backward0>)
976
977 Epoch 18/499: 71%
                                | 113/160 [18:01<07:29, 9.55s/it]print_dice: 0.
    4630116820335388, print_iou: 0.3012460768222809
978 masks_dr unique: tensor([-7.4799, -7.4533, -7.4469, ..., 10.9217, 10.9245, 10.9290],
979
           grad_fn=<Unique2Backward0>)
980 masks_dr unique: tensor([-7.4799, -7.4533, -7.4469, ..., 10.9217, 10.9245, 10.9290],
           grad_fn=<Unique2Backward0>)
981
                                | 114/160 [18:10<07:18, 9.52s/it]print_dice: 0.
982 Epoch 18/499: 71%
    5236647725105286,
                       print_iou: 0.3547058403491974
983 masks_dr unique: tensor([-7.7181, -7.7085, -7.7035, ..., 11.6443, 11.6458, 11.6470],
           grad fn=<Unique2Backward0>)
985 masks_dr unique: tensor([-7.7181, -7.7085, -7.7035, ..., 11.6443, 11.6458, 11.6470],
986
           grad_fn=<Unique2Backward0>)
987 Epoch 18/499: 72% | 115/160 [18:20<07:08, 9.53s/it]print_dice: 0.
    5486466884613037, print_iou: 0.3780241906642914
988 masks_dr unique: tensor([-7.3747, -7.3723, -7.3719, ..., 10.5092, 10.5118, 10.5144],
989
           grad fn=<Unique2Backward0>)
990 masks_dr unique: tensor([-7.3747, -7.3723, -7.3719, ..., 10.5092, 10.5118, 10.5144],
           grad fn=<Unique2Backward0>)
992 Epoch 18/499: 72% | 116/160 [18:29<06:59, 9.54s/it]print_dice: 0.
    48493608832359314, print iou: 0.3200763165950775
993 masks_dr unique: tensor([-7.3615, -7.3581, -7.3443, ..., 11.6735, 11.6741, 11.6743],
994
           grad_fn=<Unique2Backward0>)
995 masks dr unique: tensor([-7.3615, -7.3581, -7.3443, ..., 11.6735, 11.6741, 11.6743],
           grad fn=<Unique2Backward0>)
997 Epoch 18/499: 73% | 117/160 [18:39<06:52, 9.59s/it]print_dice: 0.546920657157898
        print iou: 0.376387357711792
998 masks_dr unique: tensor([-7.3776, -7.3742, -7.3706, ..., 10.5566, 10.5597, 10.5629],
           grad fn=<Unique2Backward0>)
1000 masks_dr unique: tensor([-7.3776, -7.3742, -7.3706, ..., 10.5566, 10.5597, 10.5629],
           grad_fn=<Unique2Backward0>)
1001
1002 Epoch 18/499: 74% | 118/160 [18:49<06:43, 9.60s/it]print_dice: 0.546256959438324
        print_iou: 0.37575894594192505
1003 masks_dr unique: tensor([-7.6023, -7.5921, -7.5835, ..., 11.5706, 11.5727, 11.5789],
           grad_fn=<Unique2Backward0>)
1005 masks_dr unique: tensor([-7.6023, -7.5921, -7.5835, ..., 11.5706, 11.5727, 11.5789],
1006
           grad_fn=<Unique2Backward0>)
1007 Epoch 18/499: 74% | 119/160 [18:58<06:32, 9.57s/it]print_dice: 0.
    4993373155593872, print_iou: 0.3327445387840271
1008 masks_dr unique: tensor([-7.3487, -7.3375, -7.3237, ..., 11.0626, 11.0666, 11.0731],
           grad_fn=<Unique2Backward0>)
1010 masks_dr unique: tensor([-7.3487, -7.3375, -7.3237, ..., 11.0626, 11.0666, 11.0731],
1011
           grad_fn=<Unique2Backward0>)
1012 print_dice: 0.5991095304489136, print_iou: 0.4276633560657501
1013 Epoch 18/499: 75%| | 120/160 [19:08<06:22, 9.56s/it]masks_dr unique: tensor([-7.
    3115, -7.2983, -7.2821, ..., 10.5102, 10.5168, 10.5243],
1014
           grad_fn=<Unique2Backward0>)
1015 masks_dr unique: tensor([-7.3115, -7.2983, -7.2821, ..., 10.5102, 10.5168, 10.5243],
           grad_fn=<Unique2Backward0>)
1017 Epoch 18/499: 76%
                               | 121/160 [19:18<06:13, 9.59s/it]print_dice: 0.
    5056465268135071, print_iou: 0.3383714556694031
1018 masks_dr unique: tensor([-7.3642, -7.3599, -7.3553, ..., 10.5836, 10.5871, 10.5906],
           grad_fn=<Unique2Backward0>)
1020 masks_dr unique: tensor([-7.3642, -7.3599, -7.3553, ..., 10.5836, 10.5871, 10.5906],
           grad fn=<Unique2Backward0>)
1021
1022 print dice: 0.48162952065467834,
                                      print iou: 0.3172015845775604
1023 Epoch 18/499: 76% | 122/160 [19:27<06:05, 9.61s/it]masks_dr unique: tensor([-7.
    2590, -7.2510, -7.2459, ..., 11.6873, 11.6884, 11.6900],
1024
           grad_fn=<Unique2Backward0>)
1025 masks_dr unique: tensor([-7.2590, -7.2510, -7.2459, ..., 11.6873, 11.6884, 11.6900],
1026
           grad fn=<Unique2Backward0>)
1027 Epoch 18/499: 77%
                        | 123/160 [19:37<05:53, 9.56s/it]print dice: 0.506477415561676
        print iou: 0.33911600708961487
```

```
1028 masks dr unique: tensor([-7.4614, -7.4585, -7.4448, ..., 11.7402, 11.7403, 11.7414],
           grad_fn=<Unique2Backward0>)
1030 masks dr unique: tensor([-7.4614, -7.4585, -7.4448, ..., 11.7402, 11.7403, 11.7414],
           grad fn=<Unique2Backward0>)
1031
1032 Epoch 18/499: 78%| | 124/160 [19:46<05:44, 9.57s/it]print_dice: 0.
    5567808747291565, print_iou: 0.3857909142971039
1033 masks_dr unique: tensor([-7.3578, -7.3535, -7.3504, ..., 10.5901, 10.5942, 10.5982],
           grad_fn=<Unique2Backward0>)
1034
1035 masks_dr unique: tensor([-7.3578, -7.3535, -7.3504, ..., 10.5901, 10.5942, 10.5982],
           grad fn=<Unique2Backward0>)
1036
1037 Epoch 18/499: 78% | 125/160 [19:56<05:33, 9.53s/it]print_dice: 0.
    5143004059791565, print_iou: 0.3461671471595764
1038 masks_dr unique: tensor([-7.5361, -7.5233, -7.5164, ..., 11.8848, 11.8867, 11.8870],
           grad fn=<Unique2Backward0>)
1039
1040 masks_dr unique: tensor([-7.5361, -7.5233, -7.5164, ..., 11.8848, 11.8867, 11.8870],
           grad fn=<Unique2Backward0>)
1042 print dice: 0.47511324286460876,
                                      print_iou: 0.3115728199481964
1043 Epoch 18/499: 79%| 126/160 [20:05<05:25, 9.57s/it]masks_dr unique: tensor([-7.
    4067, -7.4029, -7.3983, ..., 10.9528, 10.9576, 10.9652],
           grad_fn=<Unique2Backward0>)
1044
1045 masks_dr unique: tensor([-7.4067, -7.4029, -7.3983, ..., 10.9528, 10.9576, 10.9652],
           grad_fn=<Unique2Backward0>)
1047 Epoch 18/499: 79% | 127/160 [20:15<05:16, 9.58s/it]print_dice: 0.
    5102691054344177, print_iou: 0.34252434968948364
1048 masks_dr unique: tensor([-7.3624, -7.3509, -7.3455, ..., 11.5642, 11.5644, 11.5647],
           grad fn=<Unique2Backward0>)
1049
1050 masks_dr unique: tensor([-7.3624, -7.3509, -7.3455, ..., 11.5642, 11.5644, 11.5647],
1051
           grad fn=<Unique2Backward0>)
1052 Epoch 18/499: 80%| | 128/160 [20:24<05:04, 9.52s/it]print_dice: 0.
                      print_iou: 0.3777731955051422
    5483822822570801,
1053 masks dr unique: tensor([-7.2854, -7.2754, -7.2597, ..., 11.3991, 11.4068, 11.4132],
1054
           grad_fn=<Unique2Backward0>)
1055 masks_dr unique: tensor([-7.2854, -7.2754, -7.2597, ..., 11.3991, 11.4068, 11.4132],
1056
           grad_fn=<Unique2Backward0>)
1057 print_dice: 0.5319052934646606, print_iou: 0.36230990290641785
1058 Epoch 18/499: 81% | 129/160 [20:34<04:53, 9.47s/it] masks_dr unique: tensor([-7.
    5373, -7.5243, -7.5086, ..., 11.4618, 11.4657, 11.4736],
1059
           grad_fn=<Unique2Backward0>)
1060 masks_dr unique: tensor([-7.5373, -7.5243, -7.5086, ..., 11.4618, 11.4657, 11.4736],
           grad fn=<Unique2Backward0>)
1061
1062 Epoch 18/499: 81% | 130/160 [20:43<04:47, 9.57s/it]print_dice: 0.
    5920881032943726, print_iou: 0.42054346203804016
1063 masks_dr unique: tensor([-7.3397, -7.3395, -7.3330, ..., 10.5951, 10.5981, 10.6011],
           grad_fn=<Unique2Backward0>)
1065 masks_dr unique: tensor([-7.3397, -7.3395, -7.3330, ..., 10.5951, 10.5981, 10.6011],
1066
           grad_fn=<Unique2Backward0>)
1067 Epoch 18/499: 82% | 131/160 [20:53<04:39, 9.63s/it]print_dice: 0.
    5908674001693726, print_iou: 0.41931283473968506
1068 masks_dr unique: tensor([-7.3836, -7.3721, -7.3651, ..., 11.8283, 11.8285, 11.8287],
1069
           grad fn=<Unique2Backward0>)
1070 masks_dr unique: tensor([-7.3836, -7.3721, -7.3651, ..., 11.8283, 11.8285, 11.8287],
1071
           grad_fn=<Unique2Backward0>)
1072 print_dice: 0.538295328617096, print_iou: 0.36826545000076294
1073 Epoch 18/499: 82%| | 132/160 [21:03<04:27, 9.56s/it]masks_dr unique: tensor([-7.
    3264, -7.3211, -7.3173, ..., 10.5957, 10.6029, 10.6105],
           grad_fn=<Unique2Backward0>)
1074
1075 masks_dr unique: tensor([-7.3264, -7.3211, -7.3173, ..., 10.5957, 10.6029, 10.6105],
1076
           grad_fn=<Unique2Backward0>)
1077 Epoch 18/499: 83% | 133/160 [21:12<04:16, 9.50s/it]print_dice: 0.
                        print_iou: 0.4260609745979309
    5975354313850403,
1078 masks_dr unique: tensor([-7.3785, -7.3661, -7.3534, ..., 11.9830, 11.9847, 11.9855],
           grad_fn=<Unique2Backward0>)
1079
1080 masks_dr unique: tensor([-7.3785, -7.3661, -7.3534, ..., 11.9830, 11.9847, 11.9855],
           grad_fn=<Unique2Backward0>)
1081
                                    print iou: 0.3533087372779846
1082 print_dice: 0.522140622138977,
1083 Epoch 18/499: 84%| | 134/160 [21:22<04:07, 9.53s/it]masks_dr unique: tensor([-7.
    3133, -7.3049, -7.3027, ..., 10.5928, 10.5971, 10.6045],
1084
           grad_fn=<Unique2Backward0>)
1085 masks dr unique: tensor([-7.3133, -7.3049, -7.3027, ..., 10.5928, 10.5971, 10.6045],
```

```
grad fn=<Unique2Backward0>)
1087 print dice: 0.5434551239013672, print iou: 0.3731125295162201
1088 Epoch 18/499: 84%| | 135/160 [21:31<03:59, 9.56s/it]masks_dr unique: tensor([-7.
    3066, -7.2984, -7.2941, ..., 10.5903, 10.5937, 10.6014],
           grad_fn=<Unique2Backward0>)
1090 masks_dr unique: tensor([-7.3066, -7.2984, -7.2941, ..., 10.5903, 10.5937, 10.6014],
           grad_fn=<Unique2Backward0>)
1091
1092 print_dice: 0.4463239312171936, print_iou: 0.28726962208747864
1093 Epoch 18/499: 85%| | 136/160 [21:41<03:49, 9.57s/it]masks_dr unique: tensor([-7.
    5439, -7.5329, -7.5151, ..., 11.1152, 11.1169, 11.1175],
           grad fn=<Unique2Backward0>)
1094
1095 masks dr unique: tensor([-7.5439, -7.5329, -7.5151, ..., 11.1152, 11.1169, 11.1175],
          grad_fn=<Unique2Backward0>)
1096
1097 Epoch 18/499: 86% | 137/160 [21:50<03:38, 9.50s/it]print_dice: 0.
                      print iou: 0.3618229925632477
    5313803553581238,
1098 masks_dr unique: tensor([-7.0770, -7.0644, -7.0477, ..., 11.0257, 11.0266, 11.0267],
          grad_fn=<Unique2Backward0>)
1100 masks_dr unique: tensor([-7.0770, -7.0644, -7.0477, ..., 11.0257, 11.0266, 11.0267],
1101
           grad_fn=<Unique2Backward0>)
1102 Epoch 18/499: 86% | 138/160 [22:00<03:28, 9.46s/it]print_dice: 0.
    4688013195991516, print_iou: 0.30616623163223267
1103 masks_dr unique: tensor([-7.2982, -7.2910, -7.2903, ..., 10.5878, 10.5931, 10.5946],
          grad fn=<Unique2Backward0>)
1104
1105 masks_dr unique: tensor([-7.2982, -7.2910, -7.2903, ..., 10.5878, 10.5931, 10.5946],
           grad_fn=<Unique2Backward0>)
1107 print_dice: 0.5553866624832153, print_iou: 0.3844534754753113
3060, -7.2982, -7.2860, ..., 10.7791, 10.7792, 10.7844],
          grad_fn=<Unique2Backward0>)
1109
1110 masks dr unique: tensor([-7.3060, -7.2982, -7.2860, ..., 10.7791, 10.7792, 10.7844],
          grad fn=<Unique2Backward0>)
1112 print_dice: 0.5080631971359253, print_iou: 0.3405393660068512
1113 Epoch 18/499: 88%| 88%| 140/160 [22:19<03:10, 9.50s/it]masks_dr unique: tensor([-7.
    4997, -7.4966, -7.4928, ..., 12.0780, 12.0818, 12.0821],
1114
          grad_fn=<Unique2Backward0>)
1115 masks_dr unique: tensor([-7.4997, -7.4966, -7.4928, ..., 12.0780, 12.0818, 12.0821],
           grad_fn=<Unique2Backward0>)
1116
1117 Epoch 18/499: 88%| | | 141/160 [22:28<03:01, 9.54s/it]print_dice: 0.486276775598526
        print_iou: 0.3212454915046692
1118 masks_dr unique: tensor([-7.2890, -7.2692, -7.2494, ..., 11.2814, 11.2818, 11.2889],
1119
           grad_fn=<Unique2Backward0>)
1120 masks_dr unique: tensor([-7.2890, -7.2692, -7.2494, ..., 11.2814, 11.2818, 11.2889],
1121
          grad_fn=<Unique2Backward0>)
1122 print_dice: 0.5012977123260498, print_iou: 0.3344878554344177
3399, -7.3325, -7.3251, ..., 11.4796, 11.4808, 11.4830],
1124
           grad_fn=<Unique2Backward0>)
1125 masks_dr unique: tensor([-7.3399, -7.3325, -7.3251, ..., 11.4796, 11.4808, 11.4830],
          grad fn=<Unique2Backward0>)
1126
1127 print_dice: 0.49377748370170593, print_iou: 0.32782506942749023
4432, -7.4356, -7.4272, ..., 11.4821, 11.4865, 11.4914],
1129
          grad_fn=<Unique2Backward0>)
1130 masks_dr unique: tensor([-7.4432, -7.4356, -7.4272, ..., 11.4821, 11.4865, 11.4914],
          grad_fn=<Unique2Backward0>)
1132 Epoch 18/499: 90%
                             | | 144/160 [22:57<02:32, 9.53s/it]print_dice: 0.
    5307934880256653, print_iou: 0.36127904057502747
1133 masks dr unique: tensor([-7.0052, -6.9923, -6.9880,
                                                    ..., 10.1909, 10.1913, 10.1987],
           grad fn=<Unique2Backward0>)
                                                    ..., 10.1909, 10.1913, 10.1987],
1135 masks_dr unique: tensor([-7.0052, -6.9923, -6.9880,
          grad_fn=<Unique2Backward0>)
1136
1137 Epoch 18/499: 91% | 145/160 [23:06<02:23, 9.54s/it]print_dice: 0.
    5029634833335876,
                      print_iou: 0.33597275614738464
1138 masks_dr unique: tensor([-7.2998, -7.2856, -7.2798, ..., 11.6290, 11.6301, 11.6371],
          grad_fn=<Unique2Backward0>)
1139
1140 masks_dr unique: tensor([-7.2998, -7.2856, -7.2798, ..., 11.6290, 11.6301, 11.6371],
           grad fn=<Unique2Backward0>)
1141
1142 Epoch 18/499: 91% | 146/160 [23:16<02:13, 9.56s/it]print dice: 0.
    5414935946464539,
                      print iou: 0.37126582860946655
```

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1143 masks dr unique: tensor([-7.1308, -7.1185, -7.1169, ..., 11.1248, 11.1258, 11.1341],
           grad_fn=<Unique2Backward0>)
1145 masks_dr unique: tensor([-7.1308, -7.1185, -7.1169, ..., 11.1248, 11.1258, 11.1341],
1146
           grad fn=<Unique2Backward0>)
1147 Epoch 18/499: 92%| | | 147/160 [23:25<02:04, 9.55s/it]print_dice: 0.
    42482608556747437, print_iou: 0.2697010636329651
1148 masks dr unique: tensor([-7.0359, -7.0254, -7.0243, ..., 11.2280, 11.2295, 11.2369],
           grad_fn=<Unique2Backward0>)
1149
1150 masks_dr unique: tensor([-7.0359, -7.0254, -7.0243, ..., 11.2280, 11.2295, 11.2369],
           grad fn=<Unique2Backward0>)
1151
1152 print_dice: 0.5456534624099731, print_iou: 0.37518802285194397
1153 Epoch 18/499: 92%| 12 12 12 | 148/160 [23:35<01:54, 9.51s/it]masks_dr unique: tensor([-7.
    3219, -7.3146, -7.3122, ..., 11.9385, 11.9415, 11.9421],
1154
           grad fn=<Unique2Backward0>)
1155 masks_dr unique: tensor([-7.3219, -7.3146, -7.3122, ..., 11.9385, 11.9415, 11.9421],
           grad_fn=<Unique2Backward0>)
1157 print_dice: 0.5326711535453796, print_iou: 0.36302098631858826
1158 Epoch 18/499: 93% | 149/160 [23:44<01:44, 9.52s/it]masks_dr unique: tensor([-7.
    3549, -7.3428, -7.3252, ..., 10.6201, 10.6222, 10.6233],
           grad_fn=<Unique2Backward0>)
1159
1160 masks_dr unique: tensor([-7.3549, -7.3428, -7.3252, ..., 10.6201, 10.6222, 10.6233],
           grad_fn=<Unique2Backward0>)
1162 Epoch 18/499: 94% | 94% | 150/160 [23:54<01:35, 9.54s/it]print dice: 0.
    4664236307144165, print iou: 0.304141104221344
1163 masks_dr unique: tensor([-7.5577, -7.5574, -7.5452, ..., 12.1156, 12.1176, 12.1239],
           grad fn=<Unique2Backward0>)
1164
1165 masks_dr unique: tensor([-7.5577, -7.5574, -7.5452, ..., 12.1156, 12.1176, 12.1239],
           grad_fn=<Unique2Backward0>)
1167 print_dice: 0.49766722321510315.
                                      print_iou: 0.3312629759311676
1168 Epoch 18/499: 94%| 94%| 151/160 [24:04<01:25, 9.55s/it]masks_dr unique: tensor([-7.
    3662, -7.3544, -7.3362, ..., 10.6216, 10.6231, 10.6245],
           grad fn=<Unique2Backward0>)
1169
1170 masks_dr unique: tensor([-7.3662, -7.3544, -7.3362, ..., 10.6216, 10.6231, 10.6245],
1171
           grad_fn=<Unique2Backward0>)
1172 print_dice: 0.4983339011669159, print_iou: 0.3318540155887604
1173 Epoch 18/499: 95%| | 152/160 [24:13<01:16, 9.57s/it]masks_dr unique: tensor([-7.
    3713, -7.3598, -7.3412, ..., 10.6250, 10.6266, 10.6281],
1174
           grad_fn=<Unique2Backward0>)
1175 masks_dr unique: tensor([-7.3713, -7.3598, -7.3412, ..., 10.6250, 10.6266, 10.6281],
           grad fn=<Unique2Backward0>)
1176
1177 Epoch 18/499: 96% | 153/160 [24:23<01:06, 9.56s/it]print_dice: 0.
    49833670258522034, print_iou: 0.33185648918151855
1178 masks_dr unique: tensor([-7.1978, -7.1782, -7.1586, ..., 11.3875, 11.3884, 11.3966],
           grad fn=<Unique2Backward0>)
1180 masks_dr unique: tensor([-7.1978, -7.1782, -7.1586, ..., 11.3875, 11.3884, 11.3966],
1181
           grad_fn=<Unique2Backward0>)
1182 Epoch 18/499: 96% | 154/160 [24:32<00:57, 9.57s/it]print_dice: 0.
    5590189099311829, print_iou: 0.387943297624588
1183 masks_dr unique: tensor([-7.3801, -7.3686, -7.3497, ..., 10.6327, 10.6339, 10.6357],
1184
           grad fn=<Unique2Backward0>)
1185 masks dr unique: tensor([-7.3801, -7.3686, -7.3497, ..., 10.6327, 10.6339, 10.6357],
1186
           grad_fn=<Unique2Backward0>)
1187 Epoch 18/499: 97\%
    5103102326393127, print_iou: 0.34256142377853394
1188 masks_dr unique: tensor([-7.3855, -7.3740, -7.3549, ..., 10.6356, 10.6365, 10.6385],
1189
           grad_fn=<Unique2Backward0>)
1190 masks_dr unique: tensor([-7.3855, -7.3740, -7.3549, ..., 10.6356, 10.6365, 10.6385],
           grad fn=<Unique2Backward0>)
1191
1192 Epoch 18/499: 98%
                               156/160 [24:51<00:38, 9.56s/it]print_dice: 0.511072039604187
        print_iou: 0.34324830770492554
1193 masks dr unique: tensor([-7.2422, -7.2299, -7.2176, ..., 11.2084, 11.2107, 11.2192],
           grad fn=<Unique2Backward0>)
1194
1195 masks_dr unique: tensor([-7.2422, -7.2299, -7.2176, ..., 11.2084, 11.2107, 11.2192],
           grad_fn=<Unique2Backward0>)
1196
1197 print_dice: 0.4582831859588623, print_iou: 0.29725509881973267
1198 Epoch 18/499: 98% 157/160 [25:01<00:28, 9.55s/it]masks_dr unique: tensor([-7.
    3766, -7.3650, -7.3460, ..., 10.6608, 10.6609, 10.6632],
1199
           grad_fn=<Unique2Backward0>)
1200 masks_dr unique: tensor([-7.3766, -7.3650, -7.3460, ..., 10.6608, 10.6609, 10.6632],
```

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1201
           grad fn=<Unique2Backward0>)
1202 Epoch 18/499: 99% | 158/160 [25:10<00:19, 9.52s/it]print dice: 0.
    5665751099586487, print_iou: 0.3952597379684448
1203 masks_dr unique: tensor([-7.3702, -7.3585, -7.3396, ..., 10.6607, 10.6624, 10.6624],
           grad_fn=<Unique2Backward0>)
1205 masks_dr unique: tensor([-7.3702, -7.3585, -7.3396, ..., 10.6607, 10.6624, 10.6624],
           grad_fn=<Unique2Backward0>)
1206
1207 Epoch 18/499: 99% | 159/160 [25:20<00:09, 9.51s/it]print_dice: 0.
    45407775044441223, print_iou: 0.2937261164188385
1208 masks_dr unique: tensor([-6.9378, -6.9323, -6.9195, ..., 11.7463, 11.7475, 11.7477],
           grad_fn=<Unique2Backward0>)
1209
1210 masks dr unique: tensor([-6.9378, -6.9323, -6.9195, ..., 11.7463, 11.7475, 11.7477],
           grad fn=<Unique2Backward0>)
1211
1212 Epoch 18/499: 100%| 100% | 160/160 [25:29<00:00, 9.47s/it]print_dice: 0.
    4570479094982147, print_iou: 0.29621654748916626
      [159/160] eta: 0:00:09 time: 9.5328 data: 0.0003
                        | 160/160 [25:30<00:00, 9.56s/it]
1214 Epoch 18/499: 100%
1215 Total time: 0:25:30 (9.5647 s / it)
1216 Averaged stats: training_loss: -199.0395 (-199.0395) loss_mask: -199.2223 (-199.2223)
    loss_dice: 0.1828 (0.1828)
1217 Net parameter norm: 1054.4215583486948
1218 Validating...
1219 Valid dataloader len: 12
1220
                  | 0/12 [00:00<?, ?it/s]masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique
      0%|
    sigmoid values: tensor([6.9452e-04, 6.9640e-04, 7.2245e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
1221
1222 masks_dr unique: tensor([0.0011, 0.0011, 0.0011, ..., 1.0000, 1.0000, 1.0000],
           grad fn=<Unique2Backward0>)
1223
1224 print_dice: 0.514290988445282, print_iou: 0.34615859389305115
1225
                             time: 10.6551 data: 4.8469
      [ 0/12] eta: 0:02:07
1226
      8%|
                   | 1/12 [00:10<01:57, 10.66s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([4.3137e-04, 4.8433e-04, 4.8640e-04, ..., 9.9998e-01, 9.
    9998e-01,
1227
            9.9998e-01], grad_fn=<Unique2Backward0>)
1228 masks dr unique: tensor([6.8687e-04, 6.9635e-04, 6.9977e-04, ..., 9.9998e-01, 9.9998e-01,
1229
            9.9998e-01], grad_fn=<Unique2Backward0>)
1230 17%
                   | 2/12 [00:16<01:18, 7.80s/it]print_dice: 0.579426646232605, print_iou: 0.
    4078822731971741
1231 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([5.5257e-04, 5.
    7009e-04, 6.4049e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
1232
1233 masks_dr unique: tensor([0.0010, 0.0010, 0.0010, ..., 1.0000, 1.0000, 1.0000],
           grad_fn=<Unique2Backward0>)
1234
                   | 3/12 [00:22<01:01, 6.81s/it]print_dice: 0.4878034293651581, print_iou: 0.
1235 25%
    32257938385009766
1236 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.3182e-04, 4.
    8457e-04, 4.8649e-04, ..., 9.9998e-01, 9.9998e-01,
            9.9998e-01], grad_fn=<Unique2Backward0>)
1237
1238 masks_dr unique: tensor([4.5587e-04, 4.6939e-04, 4.8290e-04, ..., 9.9998e-01, 9.9998e-01,
            9.9998e-01], grad_fn=<Unique2Backward0>)
1240 print_dice: 0.49150899052619934, print_iou: 0.3258282542228699
                   ]) unique sigmoid values: tensor([4.3133e-04, 4.8556e-04, 4.8600e-04, ..., 9.9998e-01, 9.
    9998e-01,
            9.9998e-01], grad_fn=<Unique2Backward0>)
1243 masks_dr unique: tensor([6.8759e-04, 6.9660e-04, 7.0004e-04, ..., 9.9998e-01, 9.9998e-01,
            9.9998e-01], grad_fn=<Unique2Backward0>)
1244
1245 42%
                   | 5/12 [00:34<00:43, 6.28s/it]print_dice: 0.5404990911483765, print_iou: 0.
    37033146619796753
1246 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([5.5529e-04, 5.
    6078e-04, 5.6175e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
1247
1248 masks_dr unique: tensor([7.8319e-04, 8.0267e-04, 8.0354e-04, ..., 9.9999e-01, 9.9999e-01,
1249
            9.9999e-01], grad_fn=<Unique2Backward0>)
1250 print_dice: 0.4662725627422333, print_iou: 0.304012656211853
                   ]) unique sigmoid values: tensor([4.9915e-04, 5.3578e-04, 5.7544e-04, ..., 9.9999e-01, 9.
    9999e-01,
1252
            9.9999e-01], grad fn=<Unique2Backward0>)
```

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1253 masks dr unique: tensor([6.8105e-04, 7.0069e-04, 7.0149e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
1255 print dice: 0.4239557385444641, print iou: 0.2689999043941498
                   | 7/12 [00:45<00:30, 6.14s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([4.3142e-04, 4.8452e-04, 4.8730e-04, ..., 9.9998e-01, 9.
    9998e-01,
            9.9998e-01], grad_fn=<Unique2Backward0>)
1257
1258 masks_dr unique: tensor([6.8718e-04, 6.9678e-04, 7.0006e-04, ..., 9.9998e-01, 9.9998e-01,
            9.9998e-01], grad_fn=<Unique2Backward0>)
1260 print dice: 0.519062340259552, print iou: 0.35049575567245483
          8/12 [00:51<00:24, 6.04s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([2.8573e-04, 3.1582e-04, 3.4590e-04, ..., 9.9999e-01, 9.
    9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
1262
1263 masks_dr unique: tensor([5.6039e-04, 5.7353e-04, 5.8667e-04, ..., 9.9998e-01, 9.9998e-01,
            9.9998e-01], grad fn=<Unique2Backward0>)
1264
1265 75%
                 9/12 [00:58<00:18, 6.13s/it]print_dice: 0.5283246040344238, print_iou: 0.
    35899531841278076
1266 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.3189e-04, 4.
    8462e-04, 4.8653e-04, ..., 9.9998e-01, 9.9998e-01,
            9.9998e-01], grad_fn=<Unique2Backward0>)
1267
1268 masks_dr unique: tensor([6.8745e-04, 6.9695e-04, 7.0035e-04, ..., 9.9998e-01, 9.9998e-01,
            9.9998e-01], grad fn=<Unique2Backward0>)
1269
          | 10/12 [01:03<00:11, 5.98s/it]print_dice: 0.5325914621353149, print_iou: 0
1270 83%
     .3629469573497772
1271 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.3140e-04, 4.
    8468e-04, 4.8654e-04, ..., 9.9998e-01, 9.9998e-01,
            9.9998e-01], grad_fn=<Unique2Backward0>)
1272
1273 masks dr unique: tensor([6.8629e-04, 6.9646e-04, 6.9917e-04, ..., 9.9998e-01, 9.9998e-01,
            9.9998e-01], grad_fn=<Unique2Backward0>)
1274
1275 print dice: 0.5844940543174744, print iou: 0.41292235255241394
             ]) unique sigmoid values: tensor([3.8648e-04, 4.2306e-04, 4.6081e-04, ..., 9.9998e-01, 9.
    9998e-01,
1277
            9.9998e-01], grad fn=<Unique2Backward0>)
1278 masks_dr unique: tensor([6.9354e-04, 7.0463e-04, 7.0743e-04, ..., 9.9998e-01, 9.9998e-01,
            9.9998e-01], grad fn=<Unique2Backward0>)
1279
              12/12 [01:15<00:00, 5.88s/it]print_dice: 0.5529412031173706, print_iou: 0
1280 100%
     .38211384415626526
      [11/12] eta: 0:00:06
                             time: 6.2800 data: 0.4044
1281
1282 Total time: 0:01:15 (6.3128 s / it)
1283 ===========
1284 Averaged stats:
1285 100%
                   || 12/12 [01:15<00:00, 6.31s/it]
                                 | 0/160 [00:00<?, ?it/s]epoch: 19 learning rate:
1286 Epoch 19/499:
                   0%|
                                                                                      1e-06
1287 masks_dr unique: tensor([-7.5333, -7.5199, -7.5096, ..., 12.0840, 12.0843, 12.0858],
           grad_fn=<Unique2Backward0>)
1288
1289 masks_dr unique: tensor([-7.5333, -7.5199, -7.5096, ..., 12.0840, 12.0843, 12.0858],
           grad fn=<Unique2Backward0>)
1290
1291 Epoch 19/499: 1%
                                 | 1/160 [00:13<36:56, 13.94s/it]print_dice: 0.5244947075843811
        print_iou: 0.35546785593032837
      [ 0/160] eta: 0:37:10
                                time: 13.9375 data: 4.3643
1292
1293 masks_dr unique: tensor([-6.9462, -6.9419, -6.9377, ..., 11.6025, 11.6027, 11.6033],
           grad fn=<Unique2Backward0>)
1294
1295 masks_dr unique: tensor([-6.9462, -6.9419, -6.9377, ..., 11.6025, 11.6027, 11.6033],
           grad_fn=<Unique2Backward0>)
1296
1297 print dice: 0.45189368724823,
                                  print_iou: 0.2919009327888489
1298 Epoch 19/499:
                    1%||
                                | 2/160 [00:23<29:31, 11.21s/it]masks_dr unique: tensor([-7.
     3875, -7.3776, -7.3564, ..., 10.6865, 10.6883, 10.6895],
           grad_fn=<Unique2Backward0>)
1299
1300 masks_dr unique: tensor([-7.3875, -7.3776, -7.3564, ..., 10.6865, 10.6883, 10.6895],
1301
           grad_fn=<Unique2Backward0>)
1302 Epoch 19/499:
                                 3/160 [00:32<27:08, 10.37s/it]print_dice: 0.5123981833457947
                    2%||
        print iou: 0.34444576501846313
1303 masks dr unique: tensor([-7.2667, -7.2438, -7.2360, ..., 11.0890, 11.0918, 11.0978],
           grad fn=<Unique2Backward0>)
1304
1305 masks_dr unique: tensor([-7.2667, -7.2438, -7.2360, ..., 11.0890, 11.0918, 11.0978],
           grad_fn=<Unique2Backward0>)
1306
1307 Epoch 19/499:
                    2%|
                                 4/160 [00:42<26:03, 10.03s/it]print dice: 0.4188835620880127
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print iou: 0.2649289667606354
1308 masks_dr unique: tensor([-7.3946, -7.3858, -7.3634, ..., 10.6950, 10.6971, 10.6980],
           grad_fn=<Unique2Backward0>)
1310 masks_dr unique: tensor([-7.3946, -7.3858, -7.3634, ..., 10.6950, 10.6971, 10.6980],
           grad_fn=<Unique2Backward0>)
                                 5/160 [00:51<25:27, 9.86s/it]print_dice: 0.5263606905937195
1312 Epoch 19/499:
                    3%|
        print_iou: 0.3571842312812805
1313 masks_dr unique: tensor([-7.4006, -7.3924, -7.3702, ..., 10.7021, 10.7041, 10.7051],
           grad_fn=<Unique2Backward0>)
1315 masks dr unique: tensor([-7.4006, -7.3924, -7.3702, ..., 10.7021, 10.7041, 10.7051],
           grad fn=<Unique2Backward0>)
1316
                                 | 6/160 [01:01<24:58, 9.73s/it]print dice: 0.5774585604667664
1317 Epoch 19/499:
                    4%
        print_iou: 0.4059344530105591
1318 masks dr unique: tensor([-7.4031, -7.3952, -7.3735, ..., 10.7128, 10.7149, 10.7159],
1319
           grad_fn=<Unique2Backward0>)
1320 masks_dr unique: tensor([-7.4031, -7.3952, -7.3735, ..., 10.7128, 10.7149, 10.7159],
           grad_fn=<Unique2Backward0>)
1322 Epoch 19/499:
                    4%
                                 7/160 [01:10<24:33, 9.63s/it]print_dice: 0.4790303111076355
        print_iou: 0.3149505853652954
1323 masks_dr unique: tensor([-7.4837, -7.4812, -7.4756, ..., 11.9641, 11.9641, 11.9648],
1324
           grad_fn=<Unique2Backward0>)
1325 masks_dr unique: tensor([-7.4837, -7.4812, -7.4756, ..., 11.9641, 11.9641, 11.9648],
1326
           grad fn=<Unique2Backward0>)
1327 Epoch 19/499: 5%|■
                                 8/160 [01:20<24:14, 9.57s/it]print_dice: 0.579454779624939
        print_iou: 0.40791013836860657
1328 masks_dr unique: tensor([-7.4177, -7.4106, -7.3898, ..., 10.7345, 10.7368, 10.7378],
           grad fn=<Unique2Backward0>)
1330 masks_dr unique: tensor([-7.4177, -7.4106, -7.3898, ..., 10.7345, 10.7368, 10.7378],
           grad_fn=<Unique2Backward0>)
1332 print dice: 0.49363845586776733,
                                       print_iou: 0.32770252227783203
1333 Epoch 19/499: 6%
                           9/160 [01:29<24:01, 9.55s/it]masks_dr unique: tensor([-7.
    3368, -7.3138, -7.2979, ..., 11.7664, 11.7666, 11.7705],
1334
           grad_fn=<Unique2Backward0>)
1335 masks_dr unique: tensor([-7.3368, -7.3138, -7.2979, ..., 11.7664, 11.7666, 11.7705],
           grad fn=<Unique2Backward0>)
1336
1337 Epoch 19/499: 6%|■
                                 | 10/160 [01:39<23:52, 9.55s/it]print_dice: 0.4854266941547394
        print_iou: 0.32050392031669617
1338 masks_dr unique: tensor([-6.9805, -6.9792, -6.9699, ..., 10.9420, 10.9441, 10.9519],
           grad_fn=<Unique2Backward0>)
1340 masks_dr unique: tensor([-6.9805, -6.9792, -6.9699, ..., 10.9420, 10.9441, 10.9519],
           grad_fn=<Unique2Backward0>)
1341
                                 | 11/160 [01:48<23:26, 9.44s/it]print_dice: 0.5071538090705872
                    7%|
1342 Epoch 19/499:
        print_iou: 0.33972278237342834
1343 masks_dr unique: tensor([-7.4344, -7.4283, -7.4089, ..., 10.7646, 10.7657, 10.7669],
1344
           grad_fn=<Unique2Backward0>)
1345 masks_dr unique: tensor([-7.4344, -7.4283, -7.4089, ..., 10.7646, 10.7657, 10.7669],
           grad_fn=<Unique2Backward0>)
1347 print_dice: 0.39694684743881226,
                                       print_iou: 0.24761927127838135
1348 Epoch 19/499: 8%|■
                            | 12/160 [01:57<23:15, 9.43s/it]masks_dr unique: tensor([-7.
    0765, -7.0602, -7.0446, ..., 11.0354, 11.0374, 11.0386],
1349
           grad_fn=<Unique2Backward0>)
1350 masks dr unique: tensor([-7.0765, -7.0602, -7.0446, ..., 11.0354, 11.0374, 11.0386],
1351
           grad_fn=<Unique2Backward0>)
                   8%
                                 | 13/160 [02:07<23:10, 9.46s/it]print_dice: 0.5086504220962524
1352 Epoch 19/499:
        print_iou: 0.34106722474098206
1353 masks_dr unique: tensor([-6.9943, -6.9891, -6.9817, ..., 10.5923, 10.5936, 10.6016],
           grad_fn=<Unique2Backward0>)
1354
1355 masks_dr unique: tensor([-6.9943, -6.9891, -6.9817, ..., 10.5923, 10.5936, 10.6016],
           grad_fn=<Unique2Backward0>)
1357 print_dice: 0.5470961928367615,
                                      print_iou: 0.37655362486839294
                    9%
                                 | 14/160 [02:16<23:02, 9.47s/it]masks_dr unique: tensor([-7.
1358 Epoch 19/499:
    4525, -7.4472, -7.4291, ..., 10.7812, 10.7823, 10.7835],
           grad_fn=<Unique2Backward0>)
1359
1360 masks dr unique: tensor([-7.4525, -7.4472, -7.4291, ..., 10.7812, 10.7823, 10.7835],
           grad_fn=<Unique2Backward0>)
1361
                    9%
                                 | 15/160 [02:26<22:52, 9.46s/it]print_dice: 0.5037049055099487
1362 Epoch 19/499:
        print iou: 0.3366347551345825
1363 masks_dr unique: tensor([-7.4606, -7.4555, -7.4377, ..., 10.7852, 10.7860, 10.7873],
           grad fn=<Unique2Backward0>)
1364
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1365 masks dr unique: tensor([-7.4606, -7.4555, -7.4377, ..., 10.7852, 10.7860, 10.7873],
           grad fn=<Unique2Backward0>)
1367 Epoch 19/499: 10%
                                | 16/160 [02:35<22:37, 9.42s/it]print dice: 0.5285418629646301
        print_iou: 0.3591959774494171
1368 masks_dr unique: tensor([-7.5122, -7.5091, -7.4968, ..., 12.0568, 12.0572, 12.0588],
           grad_fn=<Unique2Backward0>)
1370 masks dr unique: tensor([-7.5122, -7.5091, -7.4968, ..., 12.0568, 12.0572, 12.0588],
           grad_fn=<Unique2Backward0>)
1371
1372 Epoch 19/499: 11%
                                | 17/160 [02:44<22:30, 9.45s/it]print_dice: 0.4890275299549103
        print iou: 0.32365086674690247
1373 masks dr unique: tensor([-7.4797, -7.4751, -7.4579, ..., 10.7881, 10.7885, 10.7902],
           grad fn=<Unique2Backward0>)
1374
1375 masks dr unique: tensor([-7.4797, -7.4751, -7.4579, ..., 10.7881, 10.7885, 10.7902],
           grad fn=<Unique2Backward0>)
1377 Epoch 19/499: 11%|■
                                | 18/160 [02:54<22:22, 9.45s/it]print_dice: 0.4815818965435028
        print_iou: 0.3171602785587311
1378 masks_dr unique: tensor([-7.2819, -7.2708, -7.2594, ..., 11.0915, 11.0922, 11.0940],
           grad_fn=<Unique2Backward0>)
1380 masks_dr unique: tensor([-7.2819, -7.2708, -7.2594, ..., 11.0915, 11.0922, 11.0940],
           grad_fn=<Unique2Backward0>)
1382 Epoch 19/499: 12%
                                | 19/160 [03:03<22:14, 9.46s/it]print_dice: 0.5378922820091248
        print_iou: 0.36788830161094666
1383 masks dr unique: tensor([-7.3690, -7.3598, -7.3495, ..., 11.1815, 11.1879, 11.1897],
           grad fn=<Unique2Backward0>)
1385 masks_dr unique: tensor([-7.3690, -7.3598, -7.3495, ..., 11.1815, 11.1879, 11.1897],
1386
           grad_fn=<Unique2Backward0>)
1387 print dice: 0.5265010595321655, print_iou: 0.35731351375579834
5906, -7.5901, -7.5811, ..., 12.1115, 12.1119, 12.1133],
           grad fn=<Unique2Backward0>)
1389
1390 masks dr unique: tensor([-7.5906, -7.5901, -7.5811, ..., 12.1115, 12.1119, 12.1133],
1391
           grad_fn=<Unique2Backward0>)
1392 print_dice: 0.5109199285507202, print_iou: 0.3431110978126526
4454, -7.4384, -7.4283, ..., 10.9749, 10.9781, 10.9797],
1394
           grad_fn=<Unique2Backward0>)
1395 masks_dr unique: tensor([-7.4454, -7.4384, -7.4283, ..., 10.9749, 10.9781, 10.9797],
           grad_fn=<Unique2Backward0>)
1396
                                22/160 [03:32<21:51, 9.50s/it]print_dice: 0.5170368552207947
1397 Epoch 19/499: 14%|■
        print iou: 0.3486511707305908
1398 masks_dr unique: tensor([-7.1041, -7.0973, -7.0892, ..., 10.6782, 10.6796, 10.6815],
           grad_fn=<Unique2Backward0>)
1400 masks_dr unique: tensor([-7.1041, -7.0973, -7.0892, ..., 10.6782, 10.6796, 10.6815],
           grad_fn=<Unique2Backward0>)
                                23/160 [03:41<21:40, 9.49s/it]print_dice: 0.5179374814033508
1402 Epoch 19/499: 14%|■
        print_iou: 0.34947076439857483
1403 masks_dr unique: tensor([-7.2115, -7.1916, -7.1880, ..., 10.9033, 10.9081, 10.9085],
1404
           grad_fn=<Unique2Backward0>)
1405 masks_dr unique: tensor([-7.2115, -7.1916, -7.1880, ..., 10.9033, 10.9081, 10.9085],
           grad fn=<Unique2Backward0>)
1407 print_dice: 0.4738512933254242, print_iou: 0.3104882836341858
1408 Epoch 19/499: 15%
                                24/160 [03:51<21:23, 9.44s/it]masks dr unique: tensor([-7.
    6646, -7.6625, -7.6513, ..., 11.8398, 11.8450, 11.8461],
1409
           grad_fn=<Unique2Backward0>)
1410 masks_dr unique: tensor([-7.6646, -7.6625, -7.6513, ..., 11.8398, 11.8450, 11.8461],
           grad_fn=<Unique2Backward0>)
1411
1412 print_dice: 0.564429521560669,
                                   print_iou: 0.3931743800640106
                                | 25/160 [04:00<21:13, 9.44s/it]masks dr unique: tensor([-7.
1413 Epoch 19/499: 16%
    8361, -7.8350, -7.8243, ..., 12.0437, 12.0482, 12.0492],
1414
           grad_fn=<Unique2Backward0>)
1415 masks_dr unique: tensor([-7.8361, -7.8350, -7.8243, ..., 12.0437, 12.0482, 12.0492],
           grad fn=<Unique2Backward0>)
1416
1417 Epoch 19/499: 16%|■■
                                26/160 [04:10<21:01, 9.42s/it]print_dice: 0.6108232736587524
        print iou: 0.439701646566391
1418 masks_dr unique: tensor([-7.4811, -7.4683, -7.4663, ..., 11.0700, 11.0702, 11.0745],
           grad fn=<Unique2Backward0>)
1419
1420 masks_dr unique: tensor([-7.4811, -7.4683, -7.4663, ..., 11.0700, 11.0702, 11.0745],
1421
           grad fn=<Unique2Backward0>)
1422 Epoch 19/499: 17%
                                27/160 [04:19<20:57, 9.46s/it]print_dice: 0.5264019966125488
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print iou: 0.35722222924232483
1423 masks_dr unique: tensor([-7.7350, -7.7313, -7.7181, ..., 11.8844, 11.8881, 11.8883],
           grad_fn=<Unique2Backward0>)
1425 masks_dr unique: tensor([-7.7350, -7.7313, -7.7181, ..., 11.8844, 11.8881, 11.8883],
1426
           grad_fn=<Unique2Backward0>)
                                 28/160 [04:29<20:49, 9.47s/it]print_dice: 0.6012975573539734
1427 Epoch 19/499: 18%|■
        print_iou: 0.4298967123031616
1428 masks_dr unique: tensor([-7.5471, -7.5420, -7.5247, ..., 10.7910, 10.7921, 10.7933],
           grad_fn=<Unique2Backward0>)
1430 masks_dr unique: tensor([-7.5471, -7.5420, -7.5247, ..., 10.7910, 10.7921, 10.7933],
           grad_fn=<Unique2Backward0>)
1431
1432 print_dice: 0.5535265207290649, print_iou: 0.38267311453819275
1433 Epoch 19/499: 18% 29/160 [04:38<20:39, 9.46s/it]masks_dr unique: tensor([-7.
    5398, -7.5347, -7.5175, ..., 10.7989, 10.8000, 10.8007],
1434
           grad_fn=<Unique2Backward0>)
1435 masks_dr unique: tensor([-7.5398, -7.5347, -7.5175, ..., 10.7989, 10.8000, 10.8007],
           grad_fn=<Unique2Backward0>)
1437 Epoch 19/499: 19%
                                 30/160 [04:47<20:20, 9.39s/it]print_dice: 0.4725923538208008
        print_iou: 0.30940812826156616
1438 masks_dr unique: tensor([-7.2935, -7.2805, -7.2718, ..., 11.2370, 11.2414, 11.2456],
           grad_fn=<Unique2Backward0>)
1439
1440 masks_dr unique: tensor([-7.2935, -7.2805, -7.2718, ..., 11.2370, 11.2414, 11.2456],
1441
           grad fn=<Unique2Backward0>)
                                | 31/160 [04:57<20:14, 9.41s/it]print_dice: 0.5996992588043213
1442 Epoch 19/499: 19%
        print_iou: 0.4282646179199219
1443 masks_dr unique: tensor([-7.5714, -7.5607, -7.5328, ..., 11.5132, 11.5180, 11.5206],
           grad fn=<Unique2Backward0>)
1445 masks_dr unique: tensor([-7.5714, -7.5607, -7.5328, ..., 11.5132, 11.5180, 11.5206],
           grad_fn=<Unique2Backward0>)
1446
1447 print_dice: 0.5438223481178284, print_iou: 0.37345877289772034
1448 Epoch 19/499: 20% 32/160 [05:06<20:09, 9.45s/it]masks_dr unique: tensor([-7.
    9111, -7.9044, -7.9015, ..., 11.9437, 11.9470, 11.9543],
           grad_fn=<Unique2Backward0>)
1450 masks_dr unique: tensor([-7.9111, -7.9044, -7.9015, ..., 11.9437, 11.9470, 11.9543],
1451
           grad_fn=<Unique2Backward0>)
1452 print_dice: 0.5940555930137634, print_iou: 0.4225313365459442
1453 Epoch 19/499: 21% 33/160 [05:16<20:01, 9.46s/it]masks_dr unique: tensor([-7.
    5025, -7.4978, -7.4817, ..., 10.8474, 10.8481, 10.8492],
1454
           grad_fn=<Unique2Backward0>)
1455 masks_dr unique: tensor([-7.5025, -7.4978, -7.4817, ..., 10.8474, 10.8481, 10.8492],
1456
           grad_fn=<Unique2Backward0>)
1457 print_dice: 0.6389293670654297, print_iou: 0.46943145990371704
1458 Epoch 19/499: 21% 34/160 [05:25<19:44, 9.40s/it]masks_dr unique: tensor([-7.
    5959, -7.5829, -7.5738, ..., 11.6870, 11.6886, 11.6899],
1459
           grad_fn=<Unique2Backward0>)
1460 masks_dr unique: tensor([-7.5959, -7.5829, -7.5738, ..., 11.6870, 11.6886, 11.6899],
           grad_fn=<Unique2Backward0>)
                                | 35/160 [05:34<19:35, 9.40s/it]print_dice: 0.5005198121070862
1462 Epoch 19/499: 22%| | | | |
        print_iou: 0.33379557728767395
1463 masks_dr unique: tensor([-7.4818, -7.4773, -7.4615, ..., 10.8648, 10.8648, 10.8670],
           grad fn=<Unique2Backward0>)
1464
1465 masks_dr unique: tensor([-7.4818, -7.4773, -7.4615, ..., 10.8648, 10.8648, 10.8670],
1466
           grad_fn=<Unique2Backward0>)
1467 print dice: 0.471163809299469,
                                    print_iou: 0.3081846237182617
1468 Epoch 19/499: 22% 36/160 [05:44<19:34, 9.47s/it]masks_dr unique: tensor([-7.
    4751, -7.4706, -7.4550, ..., 10.8759, 10.8763, 10.8785],
           grad_fn=<Unique2Backward0>)
1469
1470 masks_dr unique: tensor([-7.4751, -7.4706, -7.4550, ..., 10.8759, 10.8763, 10.8785],
           grad_fn=<Unique2Backward0>)
                                 | 37/160 [05:54<19:28, 9.50s/it]print_dice: 0.5307717323303223
1472 Epoch 19/499: 23%
        print iou: 0.361258864402771
1473 masks_dr unique: tensor([-7.8110, -7.8042, -7.7988, ..., 11.9937, 11.9964, 11.9975],
           grad_fn=<Unique2Backward0>)
1474
1475 masks dr unique: tensor([-7.8110, -7.8042, -7.7988, ..., 11.9937, 11.9964, 11.9975],
           grad_fn=<Unique2Backward0>)
1476
1477 Epoch 19/499: 24%
                                 38/160 [06:03<19:18, 9.50s/it]print dice: 0.4946219325065613
        print iou: 0.3285698890686035
1478 masks dr unique: tensor([-7.6377, -7.6355, -7.6280, ..., 11.2257, 11.2274, 11.2289],
           grad fn=<Unique2Backward0>)
1479
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1480 masks dr unique: tensor([-7.6377, -7.6355, -7.6280, ..., 11.2257, 11.2274, 11.2289],
           grad fn=<Unique2Backward0>)
1482 Epoch 19/499: 24%
                                 39/160 [06:13<19:08, 9.49s/it]print dice: 0.5522295236587524
        print_iou: 0.38143444061279297
1483 masks_dr unique: tensor([-7.4531, -7.4514, -7.4441, ..., 11.7042, 11.7053, 11.7063],
           grad fn=<Unique2Backward0>)
1485 masks_dr unique: tensor([-7.4531, -7.4514, -7.4441, ..., 11.7042, 11.7053, 11.7063],
           grad_fn=<Unique2Backward0>)
1486
1487 print_dice: 0.5210543274879456, print_iou: 0.35231471061706543
1488 Epoch 19/499: 25%| 40/160 [06:22<18:59, 9.49s/it]masks_dr unique: tensor([-7.
    2505, -7.2494, -7.2483, ..., 11.9436, 11.9452, 11.9461],
1489
           grad_fn=<Unique2Backward0>)
1490 masks_dr unique: tensor([-7.2505, -7.2494, -7.2483, ..., 11.9436, 11.9452, 11.9461],
           grad fn=<Unique2Backward0>)
1492 Epoch 19/499: 26%
                                 41/160 [06:32<18:47, 9.47s/it]print_dice: 0.4925442337989807
        print_iou: 0.32673877477645874
1493 masks_dr unique: tensor([-7.3023, -7.2879, -7.2845, ..., 11.1451, 11.1482, 11.1503],
           grad_fn=<Unique2Backward0>)
1495 masks_dr unique: tensor([-7.3023, -7.2879, -7.2845, ..., 11.1451, 11.1482, 11.1503],
           grad_fn=<Unique2Backward0>)
1497 print_dice: 0.4727272391319275, print_iou: 0.3095237910747528
1498 Epoch 19/499: 26% 42/160 [06:41<18:37, 9.47s/it]masks_dr unique: tensor([-7.
    4460, -7.4412, -7.4251, ..., 10.8978, 10.8988, 10.9013],
           grad fn=<Unique2Backward0>)
1499
1500 masks dr unique: tensor([-7.4460, -7.4412, -7.4251, ..., 10.8978, 10.8988, 10.9013],
1501
           grad_fn=<Unique2Backward0>)
1502 print dice: 0.46454477310180664, print iou: 0.30254530906677246
1503 Epoch 19/499: 27% 43/160 [06:50<18:20, 9.41s/it] masks_dr unique: tensor([-7.
    5678, -7.5588, -7.5451, ..., 11.5190, 11.5191, 11.5223],
           grad_fn=<Unique2Backward0>)
1504
1505 masks_dr unique: tensor([-7.5678, -7.5588, -7.5451, ..., 11.5190, 11.5191, 11.5223],
1506
           grad_fn=<Unique2Backward0>)
1507 Epoch 19/499: 28%
                                 44/160 [07:00<18:12, 9.42s/it]print_dice: 0.5447559356689453
        print_iou: 0.3743399381637573
1508 masks_dr unique: tensor([-7.4437, -7.4388, -7.4226, ..., 10.9018, 10.9043, 10.9059],
           grad_fn=<Unique2Backward0>)
1510 masks_dr unique: tensor([-7.4437, -7.4388, -7.4226, ..., 10.9018, 10.9043, 10.9059],
           grad_fn=<Unique2Backward0>)
1511
1512 Epoch 19/499: 28%
                                 45/160 [07:09<18:00, 9.40s/it]print_dice: 0.5580304265022278
        print iou: 0.38699179887771606
1513 masks_dr unique: tensor([-7.4402, -7.4352, -7.4188, ..., 10.9054, 10.9084, 10.9097],
           grad_fn=<Unique2Backward0>)
1515 masks_dr unique: tensor([-7.4402, -7.4352, -7.4188, ..., 10.9054, 10.9084, 10.9097],
           grad_fn=<Unique2Backward0>)
                                 46/160 [07:19<17:58, 9.46s/it]print_dice: 0.527931272983551
1517 Epoch 19/499: 29%
        print_iou: 0.3586322069168091
1518 masks_dr unique: tensor([-7.4374, -7.4323, -7.4158, ..., 10.9096, 10.9135, 10.9142],
1519
           grad_fn=<Unique2Backward0>)
1520 masks_dr unique: tensor([-7.4374, -7.4323, -7.4158, ..., 10.9096, 10.9135, 10.9142],
1521
           grad_fn=<Unique2Backward0>)
1522 Epoch 19/499: 29%
                                 47/160 [07:28<17:56, 9.52s/it]print_dice: 0.
    46986109018325806, print_iou: 0.30707088112831116
1523 masks_dr unique: tensor([-7.4380, -7.4325, -7.4154, ..., 10.9118, 10.9160, 10.9166],
1524
           grad_fn=<Unique2Backward0>)
1525 masks_dr unique: tensor([-7.4380, -7.4325, -7.4154, ..., 10.9118, 10.9160, 10.9166],
           grad_fn=<Unique2Backward0>)
1526
                                 | 48/160 [07:38<17:44, 9.50s/it]print_dice: 0.
1527 Epoch 19/499: 30%
    41975075006484985,
                         print_iou: 0.2656231224536896
1528 masks_dr unique: tensor([-7.4461, -7.4418, -7.4396, ..., 12.1119, 12.1123, 12.1127],
1529
           grad_fn=<Unique2Backward0>)
1530 masks_dr unique: tensor([-7.4461, -7.4418, -7.4396, ..., 12.1119, 12.1123, 12.1127],
           grad fn=<Unique2Backward0>)
1531
                                      print_iou: 0.390074223279953
1532 print_dice: 0.5612279176712036,
1533 Epoch 19/499: 31%
                                 49/160 [07:47<17:29, 9.46s/it]masks_dr unique: tensor([-7.
    3154, -7.2927, -7.2886, ..., 11.3837, 11.3850, 11.3879],
1534
           grad_fn=<Unique2Backward0>)
1535 masks_dr unique: tensor([-7.3154, -7.2927, -7.2886, ..., 11.3837, 11.3850, 11.3879],
           grad_fn=<Unique2Backward0>)
1537 print_dice: 0.5250486135482788, print_iou: 0.3559768795967102
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1538 Epoch 19/499: 31% 50/160 [07:57<17:19, 9.45s/it]masks dr unique: tensor([-7.
    6898, -7.6786, -7.6675, ..., 11.3978, 11.4004, 11.4048],
           grad fn=<Unique2Backward0>)
1540 masks dr unique: tensor([-7.6898, -7.6786, -7.6675, ..., 11.3978, 11.4004, 11.4048],
           grad_fn=<Unique2Backward0>)
1542 Epoch 19/499: 32%
                                | 51/160 [08:06<17:12, 9.47s/it]print_dice: 0.4290718138217926
        print iou: 0.27313265204429626
1543 masks_dr unique: tensor([-7.7990, -7.7986, -7.7842, ..., 12.2236, 12.2248, 12.2264],
           grad_fn=<Unique2Backward0>)
1545 masks_dr unique: tensor([-7.7990, -7.7986, -7.7842, ..., 12.2236, 12.2248, 12.2264],
1546
           grad fn=<Unique2Backward0>)
1547 Epoch 19/499: 32%
                                 52/160 [08:16<17:06, 9.50s/it]print_dice: 0.5139774084091187
        print_iou: 0.345874547958374
1548 masks_dr unique: tensor([-7.4477, -7.4403, -7.4204, ..., 10.9370, 10.9422, 10.9425],
1549
           grad_fn=<Unique2Backward0>)
1550 masks_dr unique: tensor([-7.4477, -7.4403, -7.4204, ..., 10.9370, 10.9422, 10.9425],
           grad_fn=<Unique2Backward0>)
1552 Epoch 19/499: 33%
                                 | 53/160 [08:25<16:50, 9.45s/it]print_dice: 0.4900977611541748
        print_iou: 0.3245890438556671
1553 masks_dr unique: tensor([-7.7956, -7.7891, -7.7702, ..., 11.7069, 11.7113, 11.7117],
           grad_fn=<Unique2Backward0>)
1554
1555 masks_dr unique: tensor([-7.7956, -7.7891, -7.7702, ..., 11.7069, 11.7113, 11.7117],
1556
           grad fn=<Unique2Backward0>)
1557 Epoch 19/499: 34%
                                 54/160 [08:34<16:35, 9.39s/it]print_dice: 0.
    49000242352485657, print_iou: 0.32450544834136963
1558 masks_dr unique: tensor([-7.4593, -7.4516, -7.4314, ..., 10.9426, 10.9476, 10.9480],
           grad fn=<Unique2Backward0>)
1560 masks_dr unique: tensor([-7.4593, -7.4516, -7.4314, ..., 10.9426, 10.9476, 10.9480],
           grad_fn=<Unique2Backward0>)
1562 Epoch 19/499: 34%
                                 | 55/160 [08:44<16:40, 9.52s/it]print_dice: 0.6017354130744934
        print_iou: 0.43034443259239197
1563 masks_dr unique: tensor([-7.0872, -7.0790, -7.0705, ..., 10.7764, 10.7813, 10.7868],
           grad_fn=<Unique2Backward0>)
1565 masks_dr unique: tensor([-7.0872, -7.0790, -7.0705, ..., 10.7764, 10.7813, 10.7868],
1566
           grad fn=<Unique2Backward0>)
1567 print_dice: 0.5300701856613159, print_iou: 0.36060917377471924
1568 Epoch 19/499: 35% 56/160 [08:54<16:37, 9.59s/it]masks_dr unique: tensor([-7.
    4619, -7.4532, -7.4317, ..., 10.9504, 10.9549, 10.9556],
1569
           grad_fn=<Unique2Backward0>)
1570 masks_dr unique: tensor([-7.4619, -7.4532, -7.4317, ..., 10.9504, 10.9549, 10.9556],
           grad_fn=<Unique2Backward0>)
1571
1572 print_dice: 0.5501570105552673, print_iou: 0.3794597387313843
1573 Epoch 19/499: 36%| | 57/160 [09:03<16:25, 9.57s/it]masks_dr unique: tensor([-7.
    5623, -7.5607, -7.5468, ..., 12.2892, 12.2904, 12.2940],
1574
           grad_fn=<Unique2Backward0>)
1575 masks_dr unique: tensor([-7.5623, -7.5607, -7.5468, ..., 12.2892, 12.2904, 12.2940],
           grad_fn=<Unique2Backward0>)
1577 Epoch 19/499: 36%|■■■
                                 58/160 [09:13<16:13, 9.55s/it]print_dice: 0.5189664363861084
        print_iou: 0.35040828585624695
1578 masks dr unique: tensor([-7.4723, -7.4621, -7.4415, ..., 10.9622, 10.9664, 10.9674],
1579
           grad_fn=<Unique2Backward0>)
1580 masks_dr unique: tensor([-7.4723, -7.4621, -7.4415, ..., 10.9622, 10.9664, 10.9674],
1581
           grad_fn=<Unique2Backward0>)
1582 print dice: 0.42290887236595154,
                                      print_iou: 0.2681575417518616
1583 Epoch 19/499: 37% 59/160 [09:22<16:03, 9.54s/it] masks_dr unique: tensor([-7.
    4736, -7.4733, -7.4731, ..., 11.5356, 11.5364, 11.5421],
           grad_fn=<Unique2Backward0>)
1584
1585 masks_dr unique: tensor([-7.4736, -7.4733, -7.4731, ..., 11.5356, 11.5364, 11.5421],
           grad_fn=<Unique2Backward0>)
1587 print_dice: 0.4638141393661499,
                                      print_iou: 0.30192580819129944
1588 Epoch 19/499: 38%
                                 60/160 [09:32<15:57, 9.57s/it]masks_dr unique: tensor([-7.
    4914, -7.4802, -7.4600, ..., 10.9746, 10.9779, 10.9794],
           grad_fn=<Unique2Backward0>)
1589
1590 masks_dr unique: tensor([-7.4914, -7.4802, -7.4600, ..., 10.9746, 10.9779, 10.9794],
           grad_fn=<Unique2Backward0>)
1591
1592 print dice: 0.48719552159309387,
                                       print iou: 0.3220479190349579
1593 Epoch 19/499: 38%
                                 61/160 [09:42<15:49, 9.59s/it]masks_dr unique: tensor([-7.
    2799, -7.2549, -7.2530, ..., 10.7564, 10.7631, 10.7672],
1594
           grad fn=<Unique2Backward0>)
```

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1595 masks_dr unique: tensor([-7.2799, -7.2549, -7.2530, ..., 10.7564, 10.7631, 10.7672],
           grad fn=<Unique2Backward0>)
1597 Epoch 19/499: 39%
                                 62/160 [09:51<15:35, 9.54s/it]print_dice: 0.5343708992004395
        print_iou: 0.364601731300354
1598 masks_dr unique: tensor([-7.5685, -7.5668, -7.5595, ..., 12.0515, 12.0526, 12.0531],
           grad_fn=<Unique2Backward0>)
1600 masks dr unique: tensor([-7.5685, -7.5668, -7.5595, ..., 12.0515, 12.0526, 12.0531],
1601
           grad_fn=<Unique2Backward0>)
1602 print_dice: 0.5003693699836731, print_iou: 0.3336617350578308
1603 Epoch 19/499: 39%| | 63/160 [10:01<15:27, 9.56s/it]masks_dr unique: tensor([-7.
    3353, -7.2937, -7.2917, ..., 11.4385, 11.4426, 11.4452],
1604
           grad_fn=<Unique2Backward0>)
1605 masks_dr unique: tensor([-7.3353, -7.2937, -7.2917, ..., 11.4385, 11.4426, 11.4452],
           grad fn=<Unique2Backward0>)
1607 Epoch 19/499: 40% | ■ ■ ■
                                 64/160 [10:10<15:18, 9.57s/it]print_dice: 0.4765384793281555
        print_iou: 0.3127998113632202
1608 masks_dr unique: tensor([-7.2755, -7.2320, -7.2312, ..., 11.6073, 11.6119, 11.6155],
           grad_fn=<Unique2Backward0>)
1610 masks_dr unique: tensor([-7.2755, -7.2320, -7.2312, ..., 11.6073, 11.6119, 11.6155],
           grad_fn=<Unique2Backward0>)
1612 Epoch 19/499: 41%
                                | 65/160 [10:20<15:06, 9.54s/it]print_dice: 0.57239830493927
        print_iou: 0.40095096826553345
1613 masks dr unique: tensor([-7.2297, -7.2028, -7.1913, ..., 10.9417, 10.9483, 10.9514],
           grad_fn=<Unique2Backward0>)
1615 masks_dr unique: tensor([-7.2297, -7.2028, -7.1913, ..., 10.9417, 10.9483, 10.9514],
           grad_fn=<Unique2Backward0>)
1616
1617 Epoch 19/499: 41%
                                 66/160 [10:29<15:00, 9.58s/it]print_dice: 0.5850726962089539
        print iou: 0.4135001599788666
1618 masks dr unique: tensor([-7.4886, -7.4762, -7.4572, ..., 10.9912, 10.9923, 10.9949],
           grad fn=<Unique2Backward0>)
1620 masks_dr unique: tensor([-7.4886, -7.4762, -7.4572, ..., 10.9912, 10.9923, 10.9949],
1621
           grad_fn=<Unique2Backward0>)
1622 print_dice: 0.5518862009048462, print_iou: 0.3811069428920746
1623 Epoch 19/499: 42%| | 67/160 [10:39<14:51, 9.59s/it]masks_dr unique: tensor([-7.
    3279, -7.3267, -7.3175, ..., 12.3174, 12.3181, 12.3186],
1624
           grad_fn=<Unique2Backward0>)
1625 masks_dr unique: tensor([-7.3279, -7.3267, -7.3175, ..., 12.3174, 12.3181, 12.3186],
1626
           grad_fn=<Unique2Backward0>)
1627 print_dice: 0.5700307488441467, print_iou: 0.3986314833164215
1628 Epoch 19/499: 42%| 68/160 [10:49<14:41, 9.58s/it]masks_dr unique: tensor([-7.
    5012, -7.4815, -7.4813, ..., 11.2513, 11.2552, 11.2580],
1629
           grad_fn=<Unique2Backward0>)
1630 masks_dr unique: tensor([-7.5012, -7.4815, -7.4813, ..., 11.2513, 11.2552, 11.2580],
           grad_fn=<Unique2Backward0>)
1632 print_dice: 0.4944162964820862, print_iou: 0.3283884525299072
1633 Epoch 19/499: 43%| 69/160 [10:58<14:33, 9.60s/it]masks_dr unique: tensor([-7.
    1543, -7.1298, -7.1260, ..., 10.3817, 10.3846, 10.3880],
           grad_fn=<Unique2Backward0>)
1634
1635 masks_dr unique: tensor([-7.1543, -7.1298, -7.1260, ..., 10.3817, 10.3846, 10.3880],
           grad_fn=<Unique2Backward0>)
1637 print_dice: 0.5164854526519775, print_iou: 0.3481498956680298
1638 Epoch 19/499: 44%
                             | 70/160 [11:08<14:25, 9.61s/it]masks_dr unique: tensor([-7.
    1053, -7.0950, -7.0857, ..., 11.2235, 11.2281, 11.2314],
           grad fn=<Unique2Backward0>)
1640 masks_dr unique: tensor([-7.1053, -7.0950, -7.0857, ..., 11.2235, 11.2281, 11.2314],
1641
           grad_fn=<Unique2Backward0>)
1642 Epoch 19/499: 44%
                                 71/160 [11:17<14:14, 9.60s/it]print_dice: 0.5956785678863525
        print_iou: 0.4241753816604614
1643 masks_dr unique: tensor([-7.4776, -7.4662, -7.4468, ..., 10.9976, 10.9978, 11.0006],
1644
           grad_fn=<Unique2Backward0>)
1645 masks_dr unique: tensor([-7.4776, -7.4662, -7.4468, ..., 10.9976, 10.9978, 11.0006],
           grad fn=<Unique2Backward0>)
                                 72/160 [11:27<14:00, 9.55s/it]print_dice: 0.
1647 Epoch 19/499: 45%
    45766693353652954, print_iou: 0.29673677682876587
1648 masks_dr unique: tensor([-7.5426, -7.5338, -7.5171, ..., 12.2058, 12.2061, 12.2061],
           grad fn=<Unique2Backward0>)
1649
1650 masks_dr unique: tensor([-7.5426, -7.5338, -7.5171, ..., 12.2058, 12.2061, 12.2061],
1651
           grad_fn=<Unique2Backward0>)
1652 print dice: 0.54300856590271,
                                    print_iou: 0.37269163131713867
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1653 Epoch 19/499: 46% 73/160 [11:36<13:53, 9.57s/it]masks dr unique: tensor([-7.
    5937, -7.5913, -7.5789, ..., 12.3754, 12.3769, 12.3773],
           grad fn=<Unique2Backward0>)
1655 masks_dr unique: tensor([-7.5937, -7.5913, -7.5789, ..., 12.3754, 12.3769, 12.3773],
           grad_fn=<Unique2Backward0>)
1657 print_dice: 0.5333038568496704, print_iou: 0.3636089265346527
1658 Epoch 19/499: 46%| 74/160 [11:46<13:44, 9.58s/it]masks_dr unique: tensor([-7.
    5499, -7.5496, -7.5379, ..., 12.2563, 12.2579, 12.2580],
1659
           grad_fn=<Unique2Backward0>)
1660 masks_dr unique: tensor([-7.5499, -7.5496, -7.5379, ..., 12.2563, 12.2579, 12.2580],
1661
           grad fn=<Unique2Backward0>)
1662 Epoch 19/499: 47%
                                 75/160 [11:56<13:35, 9.60s/it]print_dice: 0.5027946829795837
        print iou: 0.33582213521003723
1663 masks_dr unique: tensor([-7.2986, -7.2981, -7.2863, ..., 12.3357, 12.3386, 12.3390],
           grad_fn=<Unique2Backward0>)
1664
1665 masks_dr unique: tensor([-7.2986, -7.2981, -7.2863, ..., 12.3357, 12.3386, 12.3390],
           grad_fn=<Unique2Backward0>)
1667 Epoch 19/499: 48%
                                 76/160 [12:05<13:22, 9.56s/it]print_dice: 0.581484317779541
        print_iou: 0.4099245071411133
1668 masks_dr unique: tensor([-7.4773, -7.4656, -7.4470, ..., 11.0107, 11.0111, 11.0138],
           grad_fn=<Unique2Backward0>)
1670 masks_dr unique: tensor([-7.4773, -7.4656, -7.4470, ..., 11.0107, 11.0111, 11.0138],
           grad fn=<Unique2Backward0>)
1671
                              | 77/160 [12:15<13:11, 9.54s/it]print dice: 0.4903070628643036
1672 Epoch 19/499: 48%
        print_iou: 0.3247727155685425
1673 masks_dr unique: tensor([-7.4957, -7.4928, -7.4769, ..., 11.8189, 11.8223, 11.8232],
           grad fn=<Unique2Backward0>)
1675 masks_dr unique: tensor([-7.4957, -7.4928, -7.4769, ..., 11.8189, 11.8223, 11.8232],
           grad_fn=<Unique2Backward0>)
1677 print_dice: 0.49992141127586365, print_iou: 0.33326348662376404
1678 Epoch 19/499: 49% | 78/160 [12:24<13:03, 9.55s/it] masks_dr unique: tensor([-7.
    4887, -7.4764, -7.4584, ..., 11.0183, 11.0187, 11.0214],
           grad fn=<Unique2Backward0>)
1680 masks_dr unique: tensor([-7.4887, -7.4764, -7.4584, ..., 11.0183, 11.0187, 11.0214],
1681
           grad_fn=<Unique2Backward0>)
1682 print_dice: 0.5266274213790894, print_iou: 0.3574299216270447
1683 Epoch 19/499: 49% 79/160 [12:34<12:58, 9.61s/it] masks_dr unique: tensor([-7.
    4673, -7.4337, -7.4305, ..., 11.4527, 11.4569, 11.4589],
1684
           grad_fn=<Unique2Backward0>)
1685 masks_dr unique: tensor([-7.4673, -7.4337, -7.4305, ..., 11.4527, 11.4569, 11.4589],
1686
           grad_fn=<Unique2Backward0>)
1687 print_dice: 0.5611962676048279, print_iou: 0.3900436460971832
1688 Epoch 19/499: 50%| | 80/160 [12:44<12:46, 9.58s/it]masks_dr unique: tensor([-7.
    7532, -7.7506, -7.7351, ..., 12.3493, 12.3523, 12.3536],
1689
           grad_fn=<Unique2Backward0>)
1690 masks_dr unique: tensor([-7.7532, -7.7506, -7.7351, ..., 12.3493, 12.3523, 12.3536],
           grad_fn=<Unique2Backward0>)
1692 print_dice: 0.567690372467041, print_iou: 0.3963461220264435
1693 Epoch 19/499: 51%| | 81/160 [12:53<12:34, 9.54s/it]masks_dr unique: tensor([-7.
    1169, -7.0914, -7.0891, ..., 10.9297, 10.9341, 10.9358],
1694
           grad_fn=<Unique2Backward0>)
1695 masks dr unique: tensor([-7.1169, -7.0914, -7.0891, ..., 10.9297, 10.9341, 10.9358],
           grad fn=<Unique2Backward0>)
1697 Epoch 19/499: 51%
                                 82/160 [13:02<12:19, 9.48s/it]print_dice: 0.4970278739929199
        print_iou: 0.3306966722011566
1698 masks_dr unique: tensor([-7.5218, -7.5083, -7.4912, ..., 11.0327, 11.0333, 11.0360],
           grad_fn=<Unique2Backward0>)
1699
1700 masks_dr unique: tensor([-7.5218, -7.5083, -7.4912, ..., 11.0327, 11.0333, 11.0360],
           grad fn=<Unique2Backward0>)
                                 83/160 [13:12<12:09, 9.47s/it]print_dice: 0.535730242729187
1702 Epoch 19/499: 52%
        print_iou: 0.36586853861808777
1703 masks_dr unique: tensor([-7.5715, -7.5408, -7.5401, ..., 11.4994, 11.5042, 11.5089],
           grad_fn=<Unique2Backward0>)
1704
1705 masks_dr unique: tensor([-7.5715, -7.5408, -7.5401, ..., 11.4994, 11.5042, 11.5089],
1706
           grad_fn=<Unique2Backward0>)
1707 Epoch 19/499: 52%
                                 84/160 [13:21<12:00, 9.48s/it]print_dice: 0.5852876901626587
        print iou: 0.4137149751186371
1708 masks_dr unique: tensor([-7.5426, -7.5294, -7.5116, ..., 11.0409, 11.0409, 11.0441],
           grad fn=<Unique2Backward0>)
1709
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1710 masks_dr unique: tensor([-7.5426, -7.5294, -7.5116, ..., 11.0409, 11.0409, 11.0441],
           grad_fn=<Unique2Backward0>)
1712 Epoch 19/499: 53%
                                 85/160 [13:31<11:56, 9.56s/it]print dice: 0.
    48426908254623413, print_iou: 0.31949540972709656
1713 masks_dr unique: tensor([-7.3008, -7.2785, -7.2719, ..., 11.6288, 11.6339, 11.6374],
           grad fn=<Unique2Backward0>)
1715 masks_dr unique: tensor([-7.3008, -7.2785, -7.2719, ..., 11.6288, 11.6339, 11.6374],
           grad_fn=<Unique2Backward0>)
1716
1717 print_dice: 0.5768668055534363, print_iou: 0.40534982085227966
1718 Epoch 19/499: 54%| | 86/160 [13:40<11:45, 9.54s/it]masks_dr unique: tensor([-7.
    6730, -7.6654, -7.6470, ..., 11.6547, 11.6554, 11.6569],
           grad_fn=<Unique2Backward0>)
1719
1720 masks_dr unique: tensor([-7.6730, -7.6654, -7.6470, ..., 11.6547, 11.6554, 11.6569],
           grad fn=<Unique2Backward0>)
                                 87/160 [13:50<11:32, 9.48s/it]print_dice: 0.4285176694393158
1722 Epoch 19/499: 54%
        print iou: 0.2726837396621704
1723 masks_dr unique: tensor([-7.5940, -7.5940, -7.5893, ..., 11.8740, 11.8777, 11.8811],
           grad_fn=<Unique2Backward0>)
1725 masks_dr unique: tensor([-7.5940, -7.5940, -7.5893, ..., 11.8740, 11.8777, 11.8811],
           grad_fn=<Unique2Backward0>)
1727 Epoch 19/499: 55%
                                 88/160 [14:00<11:27, 9.55s/it]print_dice: 0.5992284417152405
        print_iou: 0.4277845621109009
1728 masks_dr unique: tensor([-7.5654, -7.5528, -7.5339, ..., 11.0519, 11.0525, 11.0554],
           grad_fn=<Unique2Backward0>)
1730 masks_dr unique: tensor([-7.5654, -7.5528, -7.5339, ..., 11.0519, 11.0525, 11.0554],
           grad_fn=<Unique2Backward0>)
1731
1732 Epoch 19/499: 56%
                                 89/160 [14:09<11:16, 9.52s/it]print_dice: 0.5482549071311951
        print iou: 0.3776523172855377
1733 masks dr unique: tensor([-7.5698, -7.5573, -7.5381, ..., 11.0565, 11.0567, 11.0596],
           grad_fn=<Unique2Backward0>)
1734
1735 masks_dr unique: tensor([-7.5698, -7.5573, -7.5381, ..., 11.0565, 11.0567, 11.0596],
1736
           grad_fn=<Unique2Backward0>)
1737 Epoch 19/499: 56%
                                 90/160 [14:19<11:08, 9.55s/it]print_dice: 0.5206634402275085
        print_iou: 0.35195738077163696
1738 masks dr unique: tensor([-7.5597, -7.5470, -7.5280, ..., 11.0604, 11.0614, 11.0640],
1739
           grad_fn=<Unique2Backward0>)
1740 masks_dr unique: tensor([-7.5597, -7.5470, -7.5280, ..., 11.0604, 11.0614, 11.0640],
           grad_fn=<Unique2Backward0>)
1741
1742 Epoch 19/499: 57%
                               91/160 [14:28<10:57, 9.54s/it]print_dice: 0.4430714249610901
        print iou: 0.28458043932914734
1743 masks_dr unique: tensor([-7.5542, -7.5414, -7.5224, ..., 11.0704, 11.0707, 11.0736],
           grad_fn=<Unique2Backward0>)
1745 masks_dr unique: tensor([-7.5542, -7.5414, -7.5224, ..., 11.0704, 11.0707, 11.0736],
           grad fn=<Unique2Backward0>)
1747 print_dice: 0.5598841309547424, print_iou: 0.38877713680267334
1748 Epoch 19/499: 57% 92/160 [14:38<10:48, 9.54s/it]masks_dr unique: tensor([-7.
    4996, -7.4924, -7.4742, ..., 11.3579, 11.3645, 11.3672],
           grad_fn=<Unique2Backward0>)
1749
1750 masks_dr unique: tensor([-7.4996, -7.4924, -7.4742, ..., 11.3579, 11.3645, 11.3672],
           grad fn=<Unique2Backward0>)
1752 Epoch 19/499: 58% 93/160 [14:47<10:41, 9.58s/it]print_dice: 0.5383877754211426
        print_iou: 0.3683520257472992
1753 masks dr unique: tensor([-7.4544, -7.4456, -7.4400, ..., 12.2154, 12.2182, 12.2188],
1754
           grad_fn=<Unique2Backward0>)
1755 masks_dr unique: tensor([-7.4544, -7.4456, -7.4400, ..., 12.2154, 12.2182, 12.2188],
           grad_fn=<Unique2Backward0>)
1756
                               94/160 [14:57<10:31, 9.58s/it]print_dice: 0.538109302520752
1757 Epoch 19/499: 59%
        print_iou: 0.3680913746356964
1758 masks_dr unique: tensor([-7.5764, -7.5730, -7.5588, ..., 12.4461, 12.4499, 12.4509],
1759
           grad_fn=<Unique2Backward0>)
1760 masks dr unique: tensor([-7.5764, -7.5730, -7.5588, ..., 12.4461, 12.4499, 12.4509],
           grad fn=<Unique2Backward0>)
1761
                                 95/160 [15:06<10:17, 9.50s/it]print_dice: 0.5405097007751465
1762 Epoch 19/499: 59%
        print iou: 0.370341420173645
1763 masks dr unique: tensor([-7.1431, -7.1383, -7.1218, ..., 12.0345, 12.0360, 12.0372],
           grad_fn=<Unique2Backward0>)
1764
1765 masks_dr unique: tensor([-7.1431, -7.1383, -7.1218, ..., 12.0345, 12.0360, 12.0372],
           grad fn=<Unique2Backward0>)
1766
1767 Epoch 19/499: 60%
                                 96/160 [15:16<10:07, 9.49s/it]print_dice: 0.5203180909156799
```

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print iou: 0.35164183378219604
1768 masks_dr unique: tensor([-7.2661, -7.2566, -7.2421, ..., 11.1250, 11.1255, 11.1326],
           grad fn=<Unique2Backward0>)
1770 masks_dr unique: tensor([-7.2661, -7.2566, -7.2421, ..., 11.1250, 11.1255, 11.1326],
           grad_fn=<Unique2Backward0>)
1772 Epoch 19/499: 61%
                                97/160 [15:25<10:01, 9.55s/it]print_dice: 0.4388498365879059
        print_iou: 0.28110674023628235
1773 masks_dr unique: tensor([-7.5481, -7.5360, -7.5243, ..., 12.6025, 12.6046, 12.6062],
           grad_fn=<Unique2Backward0>)
1775 masks_dr unique: tensor([-7.5481, -7.5360, -7.5243, ..., 12.6025, 12.6046, 12.6062],
           grad_fn=<Unique2Backward0>)
1776
                                 98/160 [15:35<09:51, 9.54s/it]print dice: 0.47995525598526
1777 Epoch 19/499: 61%
        print_iou: 0.31575074791908264
1778 masks_dr unique: tensor([-7.3484, -7.3406, -7.3241, ..., 11.6845, 11.6917, 11.6954],
1779
           grad_fn=<Unique2Backward0>)
1780 masks_dr unique: tensor([-7.3484, -7.3406, -7.3241, ..., 11.6845, 11.6917, 11.6954],
           grad_fn=<Unique2Backward0>)
1782 Epoch 19/499: 62%
                                 99/160 [15:44<09:41, 9.53s/it]print_dice: 0.5607120394706726
        print_iou: 0.3895760178565979
1783 masks_dr unique: tensor([-7.4831, -7.4708, -7.4514, ..., 11.0779, 11.0787, 11.0811],
           grad_fn=<Unique2Backward0>)
1784
1785 masks_dr unique: tensor([-7.4831, -7.4708, -7.4514, ..., 11.0779, 11.0787, 11.0811],
1786
           grad fn=<Unique2Backward0>)
1787 print dice: 0.5213059782981873, print iou: 0.3525448441505432
1788 Epoch 19/499: 62% | 100/160 [15:54<09:27, 9.47s/it]masks_dr unique: tensor([-7.
    4769, -7.4651, -7.4457, ..., 11.0795, 11.0802, 11.0827],
           grad fn=<Unique2Backward0>)
1789
1790 masks_dr unique: tensor([-7.4769, -7.4651, -7.4457, ..., 11.0795, 11.0802, 11.0827],
           grad_fn=<Unique2Backward0>)
1791
1792 Epoch 19/499: 63%
                                 | 101/160 [16:03<09:15, 9.42s/it]print dice: 0.
    5507106184959412, print_iou: 0.37998664379119873
      [100/160] eta: 0:09:32 time: 9.5030 data: 0.0004
1793
1794 masks_dr unique: tensor([-7.4729, -7.4618, -7.4420, ..., 11.0836, 11.0839, 11.0867],
           grad fn=<Unique2Backward0>)
1795
1796 masks_dr unique: tensor([-7.4729, -7.4618, -7.4420, ..., 11.0836, 11.0839, 11.0867],
           grad_fn=<Unique2Backward0>)
1798 Epoch 19/499: 64%
                                 | 102/160 [16:13<09:07, 9.44s/it]print_dice: 0.
    5826917886734009, print_iou: 0.41112565994262695
1799 masks_dr unique: tensor([-7.2438, -7.2132, -7.2052, ..., 11.1774, 11.1807, 11.1854],
           grad fn=<Unique2Backward0>)
1800
1801 masks_dr unique: tensor([-7.2438, -7.2132, -7.2052, ..., 11.1774, 11.1807, 11.1854],
1802
           grad_fn=<Unique2Backward0>)
1803 Epoch 19/499: 64% | 103/160 [16:22<09:00, 9.48s/it]print_dice: 0.
    6063270568847656, print_iou: 0.4350569248199463
1804 masks_dr unique: tensor([-7.2543, -7.2482, -7.2303, ..., 11.8093, 11.8096, 11.8144],
1805
           grad_fn=<Unique2Backward0>)
1806 masks_dr unique: tensor([-7.2543, -7.2482, -7.2303, ..., 11.8093, 11.8096, 11.8144],
1807
           grad_fn=<Unique2Backward0>)
1808 print_dice: 0.4548501968383789, print_iou: 0.29437288641929626
1809 Epoch 19/499: 65%| | 104/160 [16:32<08:52, 9.51s/it]masks_dr unique: tensor([-7.
    4736, -7.4639, -7.4431, ..., 11.0966, 11.0976, 11.0999],
           grad fn=<Unique2Backward0>)
1810
1811 masks_dr unique: tensor([-7.4736, -7.4639, -7.4431, ..., 11.0966, 11.0976, 11.0999],
           grad_fn=<Unique2Backward0>)
1812
1813 print_dice: 0.47715070843696594, print_iou: 0.3133276104927063
1814 Epoch 19/499: 66% | | 105/160 [16:41<08:45, 9.55s/it]masks_dr unique: tensor([-7.
    5664, -7.5608, -7.5513, ..., 11.9781, 11.9852, 11.9886],
1815
           grad_fn=<Unique2Backward0>)
1816 masks_dr unique: tensor([-7.5664, -7.5608, -7.5513, ..., 11.9781, 11.9852, 11.9886],
1817
           grad_fn=<Unique2Backward0>)
                                    print_iou: 0.39323118329048157
1818 print_dice: 0.5644880533218384,
1819 Epoch 19/499: 66%| | 106/160 [16:51<08:31, 9.47s/it]masks_dr unique: tensor([-7.
    3333, -7.3166, -7.3124, ..., 10.9613, 10.9645, 10.9699],
1820
           grad_fn=<Unique2Backward0>)
1821 masks_dr unique: tensor([-7.3333, -7.3166, -7.3124, ..., 10.9613, 10.9645, 10.9699],
           grad fn=<Unique2Backward0>)
1822
1823 Epoch 19/499: 67%
                                 | 107/160 [17:00<08:23, 9.50s/it]print dice: 0.
    48976239562034607, print_iou: 0.32429492473602295
1824 masks_dr unique: tensor([-7.4000, -7.3827, -7.3750, ..., 11.3758, 11.3772, 11.3826],
```

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1825
           grad fn=<Unique2Backward0>)
1826 masks_dr unique: tensor([-7.4000, -7.3827, -7.3750, ..., 11.3758, 11.3772, 11.3826],
           grad_fn=<Unique2Backward0>)
1828 Epoch 19/499: 68% | 108/160 [17:10<08:13, 9.49s/it]print_dice: 0.
    5638167262077332, print_iou: 0.39257991313934326
1829 masks_dr unique: tensor([-7.3250, -7.3226, -7.3213, ..., 12.3643, 12.3662, 12.3667],
           grad fn=<Unique2Backward0>)
1831 masks_dr unique: tensor([-7.3250, -7.3226, -7.3213, ..., 12.3643, 12.3662, 12.3667],
           grad_fn=<Unique2Backward0>)
1833 Epoch 19/499: 68% | 109/160 [17:19<08:06, 9.53s/it]print_dice: 0.
    5387272238731384,
                      print_iou: 0.3686698377132416
1834 masks_dr unique: tensor([-7.4464, -7.4381, -7.4192, ..., 11.1138, 11.1158, 11.1178],
           grad_fn=<Unique2Backward0>)
1835
1836 masks dr unique: tensor([-7.4464, -7.4381, -7.4192, ..., 11.1138, 11.1158, 11.1178],
           grad fn=<Unique2Backward0>)
1837
1838 Epoch 19/499: 69%| | 110/160 [17:29<07:58, 9.57s/it]print_dice: 0.
    5382857322692871, print_iou: 0.36825647950172424
1839 masks_dr unique: tensor([-7.5602, -7.5501, -7.5466, ..., 12.6683, 12.6693, 12.6719],
1840
           grad_fn=<Unique2Backward0>)
1841 masks_dr unique: tensor([-7.5602, -7.5501, -7.5466, ..., 12.6683, 12.6693, 12.6719],
           grad_fn=<Unique2Backward0>)
1842
1843 print_dice: 0.5809526443481445, print_iou: 0.409396231174469
1844 Epoch 19/499: 69%| | 111/160 [17:39<07:51, 9.62s/it]masks_dr unique: tensor([-7.
    4530, -7.4445, -7.4265, ..., 11.1204, 11.1217, 11.1230],
1845
           grad_fn=<Unique2Backward0>)
1846 masks_dr unique: tensor([-7.4530, -7.4445, -7.4265, ..., 11.1204, 11.1217, 11.1230],
           grad fn=<Unique2Backward0>)
1847
1848 Epoch 19/499: 70% | 112/160 [17:48<07:39, 9.57s/it]print_dice: 0.
    49291568994522095, print_iou: 0.32706576585769653
1849 masks_dr unique: tensor([-7.4446, -7.4345, -7.4322, ..., 12.2006, 12.2022, 12.2033],
           grad_fn=<Unique2Backward0>)
1851 masks_dr unique: tensor([-7.4446, -7.4345, -7.4322, ..., 12.2006, 12.2022, 12.2033],
           grad_fn=<Unique2Backward0>)
                                | 113/160 [17:58<07:30, 9.59s/it]print dice: 0.
1853 Epoch 19/499: 71%
    5243774652481079, print_iou: 0.3553601801395416
1854 masks_dr unique: tensor([-7.4656, -7.4571, -7.4394, ..., 11.1291, 11.1303, 11.1316],
           grad_fn=<Unique2Backward0>)
1855
1856 masks_dr unique: tensor([-7.4656, -7.4571, -7.4394, ..., 11.1291, 11.1303, 11.1316],
1857
           grad_fn=<Unique2Backward0>)
                                      print_iou: 0.298419326543808
1858 print dice: 0.45966556668281555,
1859 Epoch 19/499: 71%| | 114/160 [18:07<07:20, 9.59s/it]masks_dr unique: tensor([-7.
    4494, -7.4411, -7.4358, ..., 12.1821, 12.1821, 12.1849],
1860
           grad_fn=<Unique2Backward0>)
1861 masks_dr unique: tensor([-7.4494, -7.4411, -7.4358, ..., 12.1821, 12.1821, 12.1849],
1862
           grad_fn=<Unique2Backward0>)
1863 print_dice: 0.5556924343109131, print_iou: 0.38474661111831665
1864 Epoch 19/499: 72%| | 115/160 [18:17<07:12, 9.61s/it]masks_dr unique: tensor([-7.
    4776, -7.4692, -7.4517, ..., 11.1323, 11.1336, 11.1348],
           grad fn=<Unique2Backward0>)
1865
1866 masks_dr unique: tensor([-7.4776, -7.4692, -7.4517, ..., 11.1323, 11.1336, 11.1348],
           grad fn=<Unique2Backward0>)
1867
1868 Epoch 19/499: 72%
                                 | 116/160 [18:27<07:01, 9.59s/it]print_dice: 0.474683940410614
        print_iou: 0.31120365858078003
1869 masks_dr unique: tensor([-7.2216, -7.2210, -7.2163, ..., 12.7136, 12.7163, 12.7207],
           grad_fn=<Unique2Backward0>)
1871 masks_dr unique: tensor([-7.2216, -7.2210, -7.2163, ..., 12.7136, 12.7163, 12.7207],
1872
           grad_fn=<Unique2Backward0>)
                                     print iou: 0.2969772219657898
1873 print_dice: 0.4579528868198395,
1874 Epoch 19/499: 73%| 73%| 117/160 [18:36<06:53, 9.61s/it]masks_dr unique: tensor([-7.
    5025, -7.4944, -7.4764, ..., 11.1407, 11.1428, 11.1438],
           grad_fn=<Unique2Backward0>)
1875
1876 masks_dr unique: tensor([-7.5025, -7.4944, -7.4764, ..., 11.1407, 11.1428, 11.1438],
1877
           grad_fn=<Unique2Backward0>)
1878 print dice: 0.5416785478591919, print_iou: 0.37143978476524353
1879 Epoch 19/499: 74%| 1200 | 118/160 [18:46<06:45, 9.67s/it]masks_dr unique: tensor([-7.
    5087, -7.5007, -7.4826, ..., 11.1447, 11.1463, 11.1475],
1880
           grad fn=<Unique2Backward0>)
1881 masks_dr unique: tensor([-7.5087, -7.5007, -7.4826, ..., 11.1447, 11.1463, 11.1475],
           grad fn=<Unique2Backward0>)
1882
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1883 Epoch 19/499: 74% | 119/160 [18:56<06:35, 9.66s/it]print dice: 0.
      6120977997779846, print_iou: 0.44102373719215393
1884 masks dr unique: tensor([-7.5143, -7.5066, -7.4881, ..., 11.1520, 11.1536, 11.1548],
                grad fn=<Unique2Backward0>)
1885
1886 masks_dr unique: tensor([-7.5143, -7.5066, -7.4881, ..., 11.1520, 11.1536, 11.1548],
1887
                grad_fn=<Unique2Backward0>)
1888 Epoch 19/499: 75%
                                              | 120/160 [19:05<06:22, 9.56s/it]print_dice: 0.
                                print_iou: 0.3571435809135437
      5263165831565857,
1889 masks_dr unique: tensor([-7.3573, -7.3329, -7.3311, ..., 11.0928, 11.0975, 11.1000],
1890
                grad fn=<Unique2Backward0>)
1891 masks_dr unique: tensor([-7.3573, -7.3329, -7.3311, ..., 11.0928, 11.0975, 11.1000],
                grad fn=<Unique2Backward0>)
1892
1893 print_dice: 0.4690149128437042, print_iou: 0.30634844303131104
1894 Epoch 19/499: 76%| | 121/160 [19:14<06:12, 9.55s/it]masks_dr unique: tensor([-7.
      5218, -7.5139, -7.4955, ..., 11.1653, 11.1662, 11.1678],
                grad fn=<Unique2Backward0>)
1895
1896 masks_dr unique: tensor([-7.5218, -7.5139, -7.4955, ..., 11.1653, 11.1662, 11.1678],
1897
                grad_fn=<Unique2Backward0>)
1898 Epoch 19/499: 76%|■ 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100
      5634027123451233, print_iou: 0.39217859506607056
1899 masks_dr unique: tensor([-7.5304, -7.5223, -7.5039, ..., 11.1680, 11.1690, 11.1706],
                grad_fn=<Unique2Backward0>)
1901 masks_dr unique: tensor([-7.5304, -7.5223, -7.5039, ..., 11.1680, 11.1690, 11.1706],
1902
                grad_fn=<Unique2Backward0>)
1903 Epoch 19/499: 77\%
      5082688331604004, print_iou: 0.3407241404056549
1904 masks_dr unique: tensor([-7.8059, -7.7955, -7.7940, ..., 12.3721, 12.3732, 12.3775],
1905
                grad_fn=<Unique2Backward0>)
1906 masks_dr unique: tensor([-7.8059, -7.7955, -7.7940, ..., 12.3721, 12.3732, 12.3775],
                grad fn=<Unique2Backward0>)
1907
1908 Epoch 19/499: 78%
      5445353984832764, print_iou: 0.3741316795349121
1909 masks_dr unique: tensor([-7.5441, -7.5360, -7.5173, ..., 11.1769, 11.1784, 11.1799],
1910
                grad_fn=<Unique2Backward0>)
1911 masks dr unique: tensor([-7.5441, -7.5360, -7.5173, ..., 11.1769, 11.1784, 11.1799],
                grad_fn=<Unique2Backward0>)
1913 print_dice: 0.5673835277557373, print_iou: 0.39604708552360535
1914 Epoch 19/499: 78% | 125/160 [19:53<05:35, 9.59s/it]masks_dr unique: tensor([-7.
      3175, -7.2985, -7.2975, ..., 12.6277, 12.6309, 12.6341],
                grad fn=<Unique2Backward0>)
1915
1916 masks_dr unique: tensor([-7.3175, -7.2985, -7.2975, ..., 12.6277, 12.6309, 12.6341],
1917
                grad_fn=<Unique2Backward0>)
1918 print_dice: 0.5844312310218811, print_iou: 0.41285964846611023
1919 Epoch 19/499: 79%| | 126/160 [20:02<05:23, 9.51s/it]masks_dr unique: tensor([-7.
      7821, -7.7818, -7.7746, ..., 12.4064, 12.4079, 12.4114],
1920
                grad_fn=<Unique2Backward0>)
1921 masks_dr unique: tensor([-7.7821, -7.7818, -7.7746, ..., 12.4064, 12.4079, 12.4114],
1922
                grad_fn=<Unique2Backward0>)
1923 print_dice: 0.5078541040420532, print_iou: 0.34035149216651917
1924 Epoch 19/499: 79%| | 127/160 [20:12<05:14, 9.52s/it]masks_dr unique: tensor([-7.
      8187, -7.8101, -7.8027, ..., 12.6196, 12.6197, 12.6244],
                grad fn=<Unique2Backward0>)
1925
1926 masks_dr unique: tensor([-7.8187, -7.8101, -7.8027, ..., 12.6196, 12.6197, 12.6244],
                grad fn=<Unique2Backward0>)
1927
1928 Epoch 19/499: 80%| | 128/160 [20:21<05:05, 9.56s/it]print_dice: 0.
       5480255484580994, print_iou: 0.37743470072746277
1929 masks_dr unique: tensor([-7.6346, -7.6315, -7.6225, ..., 12.7354, 12.7364, 12.7404],
                grad fn=<Unique2Backward0>)
1930
1931 masks_dr unique: tensor([-7.6346, -7.6315, -7.6225, ..., 12.7354, 12.7364, 12.7404],
                grad_fn=<Unique2Backward0>)
1932
1933 print_dice: 0.49970370531082153, print_iou: 0.3330700099468231
1934 Epoch 19/499: 81%| | 129/160 [20:31<04:56, 9.55s/it]masks_dr unique: tensor([-7.
      5132, -7.5047, -7.4868, ..., 11.1831, 11.1852, 11.1865],
1935
                grad_fn=<Unique2Backward0>)
1936 masks dr unique: tensor([-7.5132, -7.5047, -7.4868, ..., 11.1831, 11.1852, 11.1865],
                grad fn=<Unique2Backward0>)
1937
1938 Epoch 19/499: 81%
                                            | | 130/160 [20:41<04:46, 9.55s/it]print dice: 0.
      4641455113887787,
                                print_iou: 0.30220669507980347
1939 masks_dr unique: tensor([-7.4679, -7.4458, -7.4441, ..., 11.4587, 11.4590, 11.4631],
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grad fn=<Unique2Backward0>)
1941 masks_dr unique: tensor([-7.4679, -7.4458, -7.4441, ..., 11.4587, 11.4590, 11.4631],
           grad fn=<Unique2Backward0>)
1943 Epoch 19/499: 82%| | 131/160 [20:50<04:36, 9.53s/it]print_dice: 0.
    5294725298881531, print_iou: 0.36005622148513794
1944 masks_dr unique: tensor([-7.0875, -7.0859, -7.0822, ..., 12.6363, 12.6384, 12.6405],
           grad fn=<Unique2Backward0>)
1946 masks_dr unique: tensor([-7.0875, -7.0859, -7.0822, ..., 12.6363, 12.6384, 12.6405],
           grad_fn=<Unique2Backward0>)
1948 Epoch 19/499: 82%| | 132/160 [21:00<04:28, 9.59s/it]print_dice: 0.511401355266571
        print_iou: 0.34354546666145325
1949 masks dr unique: tensor([-7.4998, -7.4907, -7.4730, ..., 11.1962, 11.1974, 11.1987],
1950
           grad_fn=<Unique2Backward0>)
1951 masks dr unique: tensor([-7.4998, -7.4907, -7.4730, ..., 11.1962, 11.1974, 11.1987],
1952
           grad fn=<Unique2Backward0>)
1953 Epoch 19/499: 83% | 133/160 [21:09<04:19, 9.62s/it]print_dice: 0.
    5697435736656189, print_iou: 0.39835062623023987
1954 masks_dr unique: tensor([-7.4622, -7.4389, -7.4348, ..., 11.5969, 11.5999, 11.6003],
1955
           grad_fn=<Unique2Backward0>)
1956 masks_dr unique: tensor([-7.4622, -7.4389, -7.4348, ..., 11.5969, 11.5999, 11.6003],
           grad_fn=<Unique2Backward0>)
1957
1958 Epoch 19/499: 84% | 134/160 [21:19<04:09, 9.60s/it]print_dice: 0.
    5297667980194092, print_iou: 0.36032840609550476
1959 masks_dr unique: tensor([-7.4919, -7.4830, -7.4649, ..., 11.2049, 11.2052, 11.2092],
           grad_fn=<Unique2Backward0>)
1960
1961 masks_dr unique: tensor([-7.4919, -7.4830, -7.4649, ..., 11.2049, 11.2052, 11.2092],
1962
           grad fn=<Unique2Backward0>)
1963 Epoch 19/499: 84% | 135/160 [21:29<04:00, 9.60s/it]print_dice: 0.
    5002739429473877, print_iou: 0.33357685804367065
1964 masks_dr unique: tensor([-7.0162, -7.0040, -7.0038, ..., 11.9021, 11.9044, 11.9053],
           grad_fn=<Unique2Backward0>)
1966 masks_dr unique: tensor([-7.0162, -7.0040, -7.0038, ..., 11.9021, 11.9044, 11.9053],
           grad_fn=<Unique2Backward0>)
1968 Epoch 19/499: 85% | 136/160 [21:38<03:51, 9.64s/it]print_dice: 0.
    5102709531784058, print_iou: 0.34252601861953735
1969 masks_dr unique: tensor([-7.4805, -7.4719, -7.4536, ..., 11.2109, 11.2126, 11.2162],
           grad_fn=<Unique2Backward0>)
1970
1971 masks dr unique: tensor([-7.4805, -7.4719, -7.4536, ..., 11.2109, 11.2126, 11.2162],
           grad_fn=<Unique2Backward0>)
1973 print dice: 0.5178049206733704, print_iou: 0.3493500351905823
1974 Epoch 19/499: 86%| | 137/160 [21:48<03:42, 9.67s/it]masks_dr unique: tensor([-7.
    4649, -7.4563, -7.4371, ..., 11.2154, 11.2171, 11.2207],
           grad_fn=<Unique2Backward0>)
1975
1976 masks_dr unique: tensor([-7.4649, -7.4563, -7.4371, ..., 11.2154, 11.2171, 11.2207],
1977
           grad_fn=<Unique2Backward0>)
1978 Epoch 19/499: 86%| | | 138/160 [21:58<03:33, 9.69s/it]print_dice: 0.
    4664636552333832, print_iou: 0.30417516827583313
1979 masks_dr unique: tensor([-7.4576, -7.4491, -7.4292, ..., 11.2387, 11.2395, 11.2447],
           grad fn=<Unique2Backward0>)
1980
1981 masks_dr unique: tensor([-7.4576, -7.4491, -7.4292, ..., 11.2387, 11.2395, 11.2447],
1982
           grad_fn=<Unique2Backward0>)
1983 print_dice: 0.5242713093757629, print_iou: 0.3552626669406891
1984 Epoch 19/499: 87%| | | 139/160 [22:07<03:22, 9.66s/it]masks_dr unique: tensor([-7.
    2875, -7.2702, -7.2682, ..., 12.4203, 12.4236, 12.4243],
           grad_fn=<Unique2Backward0>)
1986 masks_dr unique: tensor([-7.2875, -7.2702, -7.2682, ..., 12.4203, 12.4236, 12.4243],
1987
           grad_fn=<Unique2Backward0>)
1988 print dice: 0.53614342212677,
                                   print_iou: 0.3662540912628174
1989 Epoch 19/499: 88%| 88%| 140/160 [22:17<03:13, 9.66s/it]masks_dr unique: tensor([-7.
    4279, -7.4047, -7.3986, ..., 11.8280, 11.8298, 11.8316],
1990
           grad_fn=<Unique2Backward0>)
1991 masks_dr unique: tensor([-7.4279, -7.4047, -7.3986, ..., 11.8280, 11.8298, 11.8316],
           grad_fn=<Unique2Backward0>)
1992
1993 Epoch 19/499: 88% | 141/160 [22:27<03:03, 9.66s/it]print_dice: 0.
    5589429140090942,
                       print iou: 0.38787007331848145
1994 masks_dr unique: tensor([-7.1090, -7.0879, -7.0875, ..., 11.3310, 11.3311, 11.3348],
1995
           grad fn=<Unique2Backward0>)
1996 masks dr unique: tensor([-7.1090, -7.0879, -7.0875, ..., 11.3310, 11.3311, 11.3348],
           grad fn=<Unique2Backward0>)
1997
```

```
1998 Epoch 19/499: 89%| | 142/160 [22:36<02:52, 9.60s/it]print_dice: 0.
    48949143290519714, print_iou: 0.32405737042427063
1999 masks dr unique: tensor([-7.2878, -7.2869, -7.2799, ..., 12.5867, 12.5869, 12.5880],
2000
           grad_fn=<Unique2Backward0>)
2001 masks_dr unique: tensor([-7.2878, -7.2869, -7.2799, ..., 12.5867, 12.5869, 12.5880],
           grad_fn=<Unique2Backward0>)
2003 Epoch 19/499: 89%| | | 143/160 [22:46<02:43, 9.59s/it]print_dice: 0.
                      print_iou: 0.33148249983787537
    4979149401187897,
2004 masks_dr unique: tensor([-7.5616, -7.5589, -7.5568, ..., 12.4491, 12.4507, 12.4519],
2005
           grad fn=<Unique2Backward0>)
2006 masks_dr unique: tensor([-7.5616, -7.5589, -7.5568, ..., 12.4491, 12.4507, 12.4519],
           grad fn=<Unique2Backward0>)
2007
2008 Epoch 19/499: 90% | 144/160 [22:55<02:32, 9.53s/it]print dice: 0.
    5784527063369751, print iou: 0.40691766142845154
2009 masks_dr unique: tensor([-7.4336, -7.4262, -7.4062, ..., 11.2696, 11.2707, 11.2766],
           grad_fn=<Unique2Backward0>)
2011 masks_dr unique: tensor([-7.4336, -7.4262, -7.4062, ..., 11.2696, 11.2707, 11.2766],
2012
           grad_fn=<Unique2Backward0>)
2013 print_dice: 0.49382445216178894,
                                    print_iou: 0.32786646485328674
2014 Epoch 19/499: 91%| | 145/160 [23:05<02:23, 9.57s/it]masks_dr unique: tensor([-7.
    6333, -7.6289, -7.6156, ..., 12.3461, 12.3476, 12.3478],
2015
           grad_fn=<Unique2Backward0>)
2016 masks dr unique: tensor([-7.6333, -7.6289, -7.6156, ..., 12.3461, 12.3476, 12.3478],
2017
           grad_fn=<Unique2Backward0>)
                               || 146/160 [23:14<02:13, 9.56s/it]print_dice: 0.
2018 Epoch 19/499: 91%
    4854174554347992, print_iou: 0.3204958736896515
2019 masks_dr unique: tensor([-7.5407, -7.5260, -7.5197, ..., 12.3763, 12.3787, 12.3793],
2020
           grad_fn=<Unique2Backward0>)
2021 masks_dr unique: tensor([-7.5407, -7.5260, -7.5197, ..., 12.3763, 12.3787, 12.3793],
2022
           grad_fn=<Unique2Backward0>)
2023 print_dice: 0.5393128991127014, print_iou: 0.369218647480011
2024 Epoch 19/499: 92%| | 147/160 [23:24<02:04, 9.57s/it]masks_dr unique: tensor([-7.
    1670, -7.1574, -7.1430, ..., 12.1455, 12.1457, 12.1483],
2025
           grad fn=<Unique2Backward0>)
2026 masks_dr unique: tensor([-7.1670, -7.1574, -7.1430, ..., 12.1455, 12.1457, 12.1483],
           grad_fn=<Unique2Backward0>)
2028 print dice: 0.49164390563964844,
                                     print_iou: 0.3259468376636505
2029 Epoch 19/499: 92%| | 148/160 [23:33<01:54, 9.56s/it]masks_dr unique: tensor([-7.
    4286, -7.4121, -7.3971, ..., 12.5265, 12.5273, 12.5293],
2030
           grad fn=<Unique2Backward0>)
2031 masks_dr unique: tensor([-7.4286, -7.4121, -7.3971, ..., 12.5265, 12.5273, 12.5293],
2032
           grad_fn=<Unique2Backward0>)
2033 Epoch 19/499: 93%| | 149/160 [23:43<01:45, 9.60s/it]print_dice: 0.
    5032087564468384, print_iou: 0.33619168400764465
2034 masks_dr unique: tensor([-7.2935, -7.2811, -7.2706, ..., 11.1337, 11.1348, 11.1350],
2035
           grad_fn=<Unique2Backward0>)
2036 masks_dr unique: tensor([-7.2935, -7.2811, -7.2706, ..., 11.1337, 11.1348, 11.1350],
           grad_fn=<Unique2Backward0>)
2037
5490784645080566, print iou: 0.37843427062034607
2039 masks_dr unique: tensor([-7.4712, -7.4585, -7.4482, ..., 11.1980, 11.2046, 11.2065],
2040
           grad_fn=<Unique2Backward0>)
2041 masks_dr unique: tensor([-7.4712, -7.4585, -7.4482, ..., 11.1980, 11.2046, 11.2065],
2042
           grad_fn=<Unique2Backward0>)
2043 print_dice: 0.538910448551178, print_iou: 0.3688414990901947
2044 Epoch 19/499: 94%| 94%| 151/160 [24:02<01:26, 9.60s/it]masks_dr unique: tensor([-7.
    4711, -7.4540, -7.4160, ..., 11.0714, 11.0751, 11.0754],
2045
           grad_fn=<Unique2Backward0>)
2046 masks_dr unique: tensor([-7.4711, -7.4540, -7.4160, ..., 11.0714, 11.0751, 11.0754],
           grad fn=<Unique2Backward0>)
2047
2048 Epoch 19/499: 95% | 152/160 [24:12<01:16, 9.51s/it]print_dice: 0.
                      print iou: 0.3241978585720062
    4896516799926758,
2049 masks_dr unique: tensor([-7.2223, -7.2016, -7.1980, ..., 12.3083, 12.3089, 12.3107],
           grad_fn=<Unique2Backward0>)
2050
2051 masks_dr unique: tensor([-7.2223, -7.2016, -7.1980, ..., 12.3083, 12.3089, 12.3107],
           grad_fn=<Unique2Backward0>)
2052
2053 Epoch 19/499: 96%| | 153/160 [24:21<01:07, 9.57s/it]print_dice: 0.
    4651064872741699,
                      print_iou: 0.30302199721336365
2054 masks dr unique: tensor([-7.4482, -7.4440, -7.4403, ..., 11.3075, 11.3105, 11.3132],
```

```
2055
          grad fn=<Unique2Backward0>)
2056 masks_dr unique: tensor([-7.4482, -7.4440, -7.4403, ..., 11.3075, 11.3105, 11.3132],
          grad_fn=<Unique2Backward0>)
2058 Epoch 19/499: 96%| | 154/160 [24:31<00:57, 9.56s/it]print_dice: 0.
    5617266893386841, print_iou: 0.39055630564689636
2059 masks_dr unique: tensor([-7.4527, -7.4488, -7.4456, ..., 11.3147, 11.3157, 11.3179],
          grad_fn=<Unique2Backward0>)
2061 masks_dr unique: tensor([-7.4527, -7.4488, -7.4456, ..., 11.3147, 11.3157, 11.3179],
2062
          grad_fn=<Unique2Backward0>)
5579916834831238, print iou: 0.38695457577705383
2064 masks_dr unique: tensor([-7.4415, -7.4393, -7.4160, ..., 11.7306, 11.7369, 11.7389],
          grad_fn=<Unique2Backward0>)
2065
2066 masks_dr unique: tensor([-7.4415, -7.4393, -7.4160, ..., 11.7306, 11.7369, 11.7389],
2067
          grad fn=<Unique2Backward0>)
5103943347930908, print_iou: 0.34263721108436584
2069 masks dr unique: tensor([-7.2621, -7.2537, -7.2454, ..., 11.9558, 11.9558, 11.9578],
2070
          grad_fn=<Unique2Backward0>)
2071 masks_dr unique: tensor([-7.2621, -7.2537, -7.2454, ..., 11.9558, 11.9558, 11.9578],
          grad_fn=<Unique2Backward0>)
2072
2073 Epoch 19/499: 98% 98% 157/160 [25:00<00:28, 9.54s/it]print_dice: 0.
    5200311541557312, print_iou: 0.35137978196144104
2074 masks_dr unique: tensor([-7.2762, -7.2742, -7.2619, ..., 11.6914, 11.6916, 11.6938],
          grad fn=<Unique2Backward0>)
2075
2076 masks dr unique: tensor([-7.2762, -7.2742, -7.2619, ..., 11.6914, 11.6916, 11.6938],
2077
          grad fn=<Unique2Backward0>)
5101598501205444, print iou: 0.3424258828163147
2079 masks_dr unique: tensor([-7.5644, -7.5470, -7.5178, ..., 12.6464, 12.6490, 12.6501],
          grad_fn=<Unique2Backward0>)
2081 masks_dr unique: tensor([-7.5644, -7.5470, -7.5178, ..., 12.6464, 12.6490, 12.6501],
          grad_fn=<Unique2Backward0>)
2083 Epoch 19/499: 99% | 159/160 [25:18<00:09, 9.51s/it]print_dice: 0.
    5416662096977234, print_iou: 0.37142813205718994
2084 masks_dr unique: tensor([-7.4820, -7.4784, -7.4751, ..., 11.3486, 11.3487, 11.3526],
          grad_fn=<Unique2Backward0>)
2085
2086 masks_dr unique: tensor([-7.4820, -7.4784, -7.4751, ..., 11.3486, 11.3487, 11.3526],
2087
          grad_fn=<Unique2Backward0>)
2088 Epoch 19/499: 100%| 100% | 160/160 [25:28<00:00, 9.52s/it]print_dice: 0.
                      print_iou: 0.37702104449272156
    5475893616676331,
                              time: 9.5481 data: 0.0005
     [159/160] eta: 0:00:09
2089
2090 Total time: 0:25:29 (9.5570 s / it)
2091 Averaged stats: training_loss: -1014.0392 (-1014.0392) loss mask: -1013.8275 (-1013.8275)
    loss_dice: -0.2117 (-0.2117)
2092 Epoch 19/499: 100%| 100%| 160/160 [25:29<00:00, 9.56s/it]
2093
      0%|
                  | 0/12 [00:00<?, ?it/s]Net parameter norm: 1054.4221112581436
2094 Validating...
2095 Valid_dataloader len: 12
2096 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.0582e-04, 3.
    2061e-04, 3.7531e-04, ..., 9.9999e-01, 9.9999e-01,
2097
           9.9999e-01], grad_fn=<Unique2Backward0>)
2098 masks_dr unique: tensor([6.8741e-04, 6.9225e-04, 7.0789e-04, ..., 9.9999e-01, 9.9999e-01,
           9.9999e-01], grad_fn=<Unique2Backward0>)
2100 print dice: 0.5530356168746948, print iou: 0.3822040557861328
      [ 0/12] eta: 0:02:08 time: 10.6725 data: 4.9593
2101
                  | 1/12 [00:10<01:57, 10.67s/it]masks dr shape: torch.Size([1, 1, 32, 32, 32
2102
      8%|
    ]) unique sigmoid values: tensor([3.1889e-04, 3.4477e-04, 3.4657e-04, ..., 1.0000e+00, 1.
    0000e+00,
           1.0000e+00], grad fn=<Unique2Backward0>)
2103
2104 masks_dr unique: tensor([7.4038e-04, 7.4579e-04, 7.4949e-04, ..., 1.0000e+00, 1.0000e+00,
           1.0000e+00], grad_fn=<Unique2Backward0>)
2106 print dice: 0.589951753616333, print iou: 0.4183911979198456
                  2107 17%
    ]) unique sigmoid values: tensor([3.9996e-04, 4.0105e-04, 4.2189e-04, ..., 1.0000e+00, 1.
    0000e+00,
           1.0000e+00], grad fn=<Unique2Backward0>)
2108
2109 masks_dr unique: tensor([7.4453e-04, 7.5359e-04, 7.5618e-04, ..., 1.0000e+00, 1.0000e+00,
2110
           1.0000e+00], grad fn=<Unique2Backward0>)
```

```
3/12 [00:22<01:02, 6.93s/it]print_dice: 0.5246589779853821, print_iou: 0.
2111 25%||
    35561880469322205
2112 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.0760e-04, 3.
     3259e-04, 3.3762e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
2114 masks_dr unique: tensor([3.6094e-04, 3.7664e-04, 3.8835e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
2115
                   | 4/12 [00:28<00:53, 6.64s/it]print_dice: 0.5126675367355347, print_iou: 0.
2116 33%
    344689279794693
2117 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.7330e-04, 2.
    8018e-04, 2.8569e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
2118
2119 masks_dr unique: tensor([4.5968e-04, 4.6551e-04, 4.7134e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
2121 42%
                   | 5/12 [00:34<00:44, 6.29s/it]print_dice: 0.5764174461364746, print_iou: 0.
    4049062132835388
2122 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.5559e-04, 3.
    9255e-04, 4.2851e-04, ..., 9.9999e-01, 9.9999e-01,
2123
            9.9999e-01], grad_fn=<Unique2Backward0>)
2124 masks_dr unique: tensor([7.6810e-04, 7.7136e-04, 7.7414e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
2125
                   | 6/12 [00:40<00:36, 6.14s/it]print_dice: 0.5068941712379456, print_iou: 0.
2126 50%
    33948975801467896
2127 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.0693e-04, 3.
    3276e-04, 3.3786e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
2128
2129 masks dr unique: tensor([3.6108e-04, 3.7683e-04, 3.8916e-04, ..., 9.9999e-01, 9.9999e-01,
2130
            9.9999e-01], grad_fn=<Unique2Backward0>)
                   7/12 [00:46<00:30, 6.18s/it]print_dice: 0.4461401402950287, print_iou: 0.
2131 58%||
    2871173620223999
2132 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.0802e-04, 3.
    3265e-04, 3.3777e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
2134 masks_dr unique: tensor([6.0693e-04, 6.0755e-04, 6.1576e-04, ..., 9.9999e-01, 9.9999e-01,
2135
            9.9999e-01], grad_fn=<Unique2Backward0>)
2136 print_dice: 0.5432921051979065, print_iou: 0.37295883893966675
             8/12 [00:51<00:23, 5.99s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.2788e-04, 3.4398e-04, 3.5310e-04, ..., 9.9999e-01, 9.
    9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
2138
2139 masks_dr unique: tensor([5.6507e-04, 5.6868e-04, 6.1786e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
2141 print_dice: 0.554381787776947, print_iou: 0.383491188287735
              | 9/12 [00:58<00:18, 6.10s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.0794e-04, 3.3271e-04, 3.3763e-04, ..., 9.9999e-01, 9.
    9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
2143
2144 masks_dr unique: tensor([6.0694e-04, 6.0755e-04, 6.1576e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
2145
2146 print dice: 0.5713804960250854, print iou: 0.3999529182910919
]) unique sigmoid values: tensor([3.8772e-04, 4.2574e-04, 4.4565e-04, ..., 1.0000e+00, 1.
    0000e+00,
2148
            1.0000e+00], grad_fn=<Unique2Backward0>)
2149 masks_dr unique: tensor([7.0289e-04, 7.3059e-04, 7.3505e-04, ..., 1.0000e+00, 1.0000e+00,
2150
            1.0000e+00], grad_fn=<Unique2Backward0>)
2151 print dice: 0.6126170754432678, print iou: 0.44156306982040405
                | 11/12 [01:09<00:05, 5.89s/it]masks dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([3.0737e-04, 3.3250e-04, 3.3717e-04, ..., 9.9999e-01, 9.
    9999e-01,
2153
            9.9999e-01], grad_fn=<Unique2Backward0>)
2154 masks_dr unique: tensor([6.0674e-04, 6.0735e-04, 6.1556e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
2155
2156 print dice: 0.5781440138816833, print iou: 0.40661224722862244
2157
      [11/12] eta: 0:00:06
                              time: 6.2775 data: 0.4137
2158 100%
              12/12 [01:15<00:00, 6.31s/it]
2159 Total time: 0:01:15 (6.3132 s / it)
2160 =============
2161 Averaged stats:
```

```
0/160 [00:00<?, ?it/s]epoch:
2162 Epoch 20/499: 0%
                                                                  20
                                                                      learning rate:
                                                                                        1e-07
2163 masks_dr unique: tensor([-7.2393, -7.2191, -7.1873, ..., 11.1189, 11.1246, 11.1262],
           grad fn=<Unique2Backward0>)
2165 masks_dr unique: tensor([-7.2393, -7.2191, -7.1873, ..., 11.1189, 11.1246, 11.1262],
           grad_fn=<Unique2Backward0>)
2167 Epoch 20/499: 1%
                                 | 1/160 [00:13<36:06, 13.63s/it]print_dice: 0.4636170268058777
        print_iou: 0.3017587661743164
2168
     [ 0/160] eta: 0:36:20
                                time: 13.6259 data: 4.0909
2169 masks dr unique: tensor([-7.7504, -7.7502, -7.7410, ..., 12.5693, 12.5697, 12.5725],
           grad fn=<Unique2Backward0>)
2170
2171 masks_dr unique: tensor([-7.7504, -7.7502, -7.7410, ..., 12.5693, 12.5697, 12.5725],
           grad fn=<Unique2Backward0>)
2172
                                 2/160 [00:22<29:10, 11.08s/it]print_dice: 0.6067559719085693
2173 Epoch 20/499: 1%||
        print_iou: 0.4354987144470215
2174 masks_dr unique: tensor([-7.4925, -7.4884, -7.4867, ..., 11.3628, 11.3631, 11.3670],
           grad_fn=<Unique2Backward0>)
2176 masks_dr unique: tensor([-7.4925, -7.4884, -7.4867, ..., 11.3628, 11.3631, 11.3670],
           grad_fn=<Unique2Backward0>)
2177
2178 print_dice: 0.544739305973053, print_iou: 0.3743242025375366
2179 Epoch 20/499: 2%
                          | 3/160 [00:32<27:21, 10.45s/it]masks_dr unique: tensor([-7.
    4938, -7.4895, -7.4881, ..., 11.3652, 11.3653, 11.3693],
2180
           grad_fn=<Unique2Backward0>)
2181 masks_dr unique: tensor([-7.4938, -7.4895, -7.4881, ..., 11.3652, 11.3653, 11.3693],
2182
           grad fn=<Unique2Backward0>)
                    2%||
2183 Epoch 20/499:
                                 4/160 [00:42<26:25, 10.16s/it]print_dice: 0.5428639650344849
        print_iou: 0.3725554645061493
2184 masks dr unique: tensor([-7.4933, -7.4890, -7.4876, ..., 11.3664, 11.3668, 11.3707],
           grad fn=<Unique2Backward0>)
2186 masks dr unique: tensor([-7.4933, -7.4890, -7.4876, ..., 11.3664, 11.3668, 11.3707],
           grad_fn=<Unique2Backward0>)
2188 print_dice: 0.5104646682739258, print_iou: 0.34270063042640686
2189 Epoch 20/499: 3%| 5/160 [00:51<25:43, 9.95s/it]masks_dr unique: tensor([-7.
    4944, -7.4900, -7.4885, ..., 11.3681, 11.3683, 11.3723],
2190
           grad fn=<Unique2Backward0>)
2191 masks_dr unique: tensor([-7.4944, -7.4900, -7.4885, ..., 11.3681, 11.3683, 11.3723],
           grad_fn=<Unique2Backward0>)
2193 Epoch 20/499:
                   4%
                                 6/160 [01:01<25:03, 9.76s/it]print_dice: 0.5559468269348145
        print_iou: 0.38499054312705994
2194 masks_dr unique: tensor([-7.4516, -7.4492, -7.4437, ..., 11.5884, 11.5959, 11.5980],
           grad fn=<Unique2Backward0>)
2196 masks_dr unique: tensor([-7.4516, -7.4492, -7.4437, ..., 11.5884, 11.5959, 11.5980],
2197
           grad_fn=<Unique2Backward0>)
2198 Epoch 20/499: 4%|■
                                 7/160 [01:10<24:35, 9.64s/it]print_dice: 0.5771839022636414
        print_iou: 0.40566304326057434
2199 masks_dr unique: tensor([-7.4942, -7.4896, -7.4886, ..., 11.3670, 11.3672, 11.3711],
           grad_fn=<Unique2Backward0>)
2201 masks_dr unique: tensor([-7.4942, -7.4896, -7.4886, ..., 11.3670, 11.3672, 11.3711],
           grad_fn=<Unique2Backward0>)
2202
2203 Epoch 20/499: 5%
                                 8/160 [01:20<24:14, 9.57s/it]print_dice: 0.4781264066696167
        print iou: 0.31416958570480347
2204 masks dr unique: tensor([-7.4941, -7.4894, -7.4873, ..., 11.3714, 11.3718, 11.3757],
2205
           grad_fn=<Unique2Backward0>)
2206 masks dr unique: tensor([-7.4941, -7.4894, -7.4873, ..., 11.3714, 11.3718, 11.3757],
2207
           grad_fn=<Unique2Backward0>)
2208 print_dice: 0.5339165925979614, print_iou: 0.3641788363456726
2209 Epoch 20/499: 6%| 9/160 [01:29<24:09, 9.60s/it]masks_dr unique: tensor([-7.
    7334, -7.7318, -7.7261, ..., 12.7292, 12.7314, 12.7332],
2210
           grad_fn=<Unique2Backward0>)
2211 masks_dr unique: tensor([-7.7334, -7.7318, -7.7261, ..., 12.7292, 12.7314, 12.7332],
           grad fn=<Unique2Backward0>)
2212
                    6%
                                 | 10/160 [01:39<24:01, 9.61s/it]print_dice: 0.5801699161529541
2213 Epoch 20/499:
        print_iou: 0.4086192846298218
2214 masks_dr unique: tensor([-7.1436, -7.1348, -7.1342, ..., 12.7949, 12.7971, 12.7973],
           grad_fn=<Unique2Backward0>)
2216 masks_dr unique: tensor([-7.1436, -7.1348, -7.1342, ..., 12.7949, 12.7971, 12.7973],
           grad fn=<Unique2Backward0>)
2217
2218 Epoch 20/499:
                    7%
                                 | 11/160 [01:49<23:50, 9.60s/it]print_dice: 0.5275819897651672
        print_iou: 0.35830992460250854
2219 masks dr unique: tensor([-7.7100, -7.7059, -7.7047, ..., 12.5034, 12.5048, 12.5065],
```

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grad fn=<Unique2Backward0>)
2220
2221 masks_dr unique: tensor([-7.7100, -7.7059, -7.7047, ..., 12.5034, 12.5048, 12.5065],
           grad_fn=<Unique2Backward0>)
2223 Epoch 20/499:
                    8%
                                 | 12/160 [01:58<23:36, 9.57s/it]print_dice: 0.580057680606842
        print iou: 0.40850794315338135
2224 masks_dr unique: tensor([-7.2860, -7.2743, -7.2737, ..., 12.7674, 12.7686, 12.7696],
           grad_fn=<Unique2Backward0>)
2225
2226 masks dr unique: tensor([-7.2860, -7.2743, -7.2737, ..., 12.7674, 12.7686, 12.7696],
2227
           grad_fn=<Unique2Backward0>)
2228 Epoch 20/499:
                    8%
                                 | 13/160 [02:08<23:24, 9.55s/it]print_dice: 0.555023729801178
        print_iou: 0.38410577178001404
2229 masks_dr unique: tensor([-7.4935, -7.4884, -7.4878, ..., 11.3761, 11.3764, 11.3803],
           grad_fn=<Unique2Backward0>)
2231 masks_dr unique: tensor([-7.4935, -7.4884, -7.4878, ..., 11.3761, 11.3764, 11.3803],
2232
           grad fn=<Unique2Backward0>)
2233 print_dice: 0.5937001705169678, print_iou: 0.42217180132865906
2234 Epoch 20/499: 9%|■ | 14/160 [02:17<23:18, 9.58s/it]masks_dr unique: tensor([-7.
    4928, -7.4878, -7.4876, ..., 11.3780, 11.3784, 11.3822],
2235
           grad_fn=<Unique2Backward0>)
2236 masks_dr unique: tensor([-7.4928, -7.4878, -7.4876, ..., 11.3780, 11.3784, 11.3822],
           grad_fn=<Unique2Backward0>)
2237
2238 print_dice: 0.5219501852989197, print_iou: 0.3531343936920166
4927, -7.4880, -7.4874, ..., 11.3768, 11.3772, 11.3810],
2240
           grad_fn=<Unique2Backward0>)
2241 masks_dr unique: tensor([-7.4927, -7.4880, -7.4874, ..., 11.3768, 11.3772, 11.3810],
2242
           grad fn=<Unique2Backward0>)
2243 Epoch 20/499: 10%
                                 | 16/160 [02:36<22:55, 9.55s/it]print_dice: 0.5057027339935303
        print iou: 0.3384217619895935
2244 masks_dr unique: tensor([-7.3572, -7.3454, -7.3433, ..., 12.5653, 12.5690, 12.5690],
           grad_fn=<Unique2Backward0>)
2246 masks_dr unique: tensor([-7.3572, -7.3454, -7.3433, ..., 12.5653, 12.5690, 12.5690],
           grad_fn=<Unique2Backward0>)
2248 Epoch 20/499: 11%
                                 | 17/160 [02:46<22:41, 9.52s/it]print_dice: 0.545515775680542
        print_iou: 0.3750578761100769
2249 masks_dr unique: tensor([-7.5333, -7.5251, -7.5166, ..., 11.8682, 11.8720, 11.8734],
           grad_fn=<Unique2Backward0>)
2250
2251 masks_dr unique: tensor([-7.5333, -7.5251, -7.5166, ..., 11.8682, 11.8720, 11.8734],
           grad_fn=<Unique2Backward0>)
2252
                                 | 18/160 [02:56<22:44, 9.61s/it]print_dice: 0.4884176254272461
2253 Epoch 20/499: 11%
        print_iou: 0.3231167793273926
2254 masks_dr unique: tensor([-7.4584, -7.4467, -7.4461, ..., 12.6218, 12.6225, 12.6262],
2255
           grad_fn=<Unique2Backward0>)
2256 masks_dr unique: tensor([-7.4584, -7.4467, -7.4461, ..., 12.6218, 12.6225, 12.6262],
2257
           grad_fn=<Unique2Backward0>)
2258 Epoch 20/499: 12%
                                 | 19/160 [03:05<22:37, 9.62s/it]print_dice: 0.
    47373202443122864, print_iou: 0.3103858530521393
2259 masks_dr unique: tensor([-7.1910, -7.1780, -7.1733, ..., 12.5215, 12.5238, 12.5243],
           grad fn=<Unique2Backward0>)
2260
2261 masks_dr unique: tensor([-7.1910, -7.1780, -7.1733, ..., 12.5215, 12.5238, 12.5243],
           grad fn=<Unique2Backward0>)
2262
2263 Epoch 20/499: 12%
                                 20/160 [03:15<22:22, 9.59s/it]print_dice: 0.5068700313568115
        print iou: 0.3394681215286255
2264 masks_dr unique: tensor([-7.6819, -7.6608, -7.6352, ..., 11.9823, 11.9845, 11.9898],
           grad_fn=<Unique2Backward0>)
2266 masks_dr unique: tensor([-7.6819, -7.6608, -7.6352, ..., 11.9823, 11.9845, 11.9898],
2267
           grad_fn=<Unique2Backward0>)
2268 Epoch 20/499: 13%
                                 | 21/160 [03:24<22:02,
                                                        9.52s/it]print_dice: 0.
    48964330554008484,
                         print iou: 0.32419052720069885
2269 masks_dr unique: tensor([-7.4967, -7.4939, -7.4908,
                                                        ..., 11.3846, 11.3851, 11.3889],
           grad_fn=<Unique2Backward0>)
2270
2271 masks_dr unique: tensor([-7.4967, -7.4939, -7.4908,
                                                        ..., 11.3846, 11.3851, 11.3889],
           grad fn=<Unique2Backward0>)
2272
2273 Epoch 20/499: 14%
                                 22/160 [03:34<22:03,
                                                        9.59s/it]print dice: 0.
    49266234040260315,
                         print iou: 0.326842725276947
2274 masks_dr unique: tensor([-7.5754, -7.5611, -7.5596,
                                                       ..., 12.6190, 12.6211, 12.6222],
2275
           grad fn=<Unique2Backward0>)
2276 masks dr unique: tensor([-7.5754, -7.5611, -7.5596, ..., 12.6190, 12.6211, 12.6222],
           grad fn=<Unique2Backward0>)
2277
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23/160 [03:43<21:56, 9.61s/it]print dice: 0.5326465368270874
2278 Epoch 20/499: 14%
        print_iou: 0.3629981279373169
2279 masks_dr unique: tensor([-7.5016, -7.4983, -7.4956, ..., 11.3850, 11.3855, 11.3893],
2280
           grad_fn=<Unique2Backward0>)
2281 masks_dr unique: tensor([-7.5016, -7.4983, -7.4956, ..., 11.3850, 11.3855, 11.3893],
           grad fn=<Unique2Backward0>)
2282
2283 Epoch 20/499: 15%
                                 24/160 [03:53<21:49, 9.63s/it]print_dice: 0.5353160500526428
        print_iou: 0.36548227071762085
2284 masks_dr unique: tensor([-7.7932, -7.7803, -7.7674, ..., 12.0804, 12.0885, 12.0912],
           grad fn=<Unique2Backward0>)
2285
2286 masks_dr unique: tensor([-7.7932, -7.7803, -7.7674, ..., 12.0804, 12.0885, 12.0912],
           grad_fn=<Unique2Backward0>)
2287
                                 25/160 [04:03<21:35, 9.59s/it]print_dice: 0.5330092310905457
2288 Epoch 20/499: 16%
        print_iou: 0.3633350729942322
2289 masks_dr unique: tensor([-7.4995, -7.4853, -7.4765, ..., 12.2497, 12.2520, 12.2530],
           grad fn=<Unique2Backward0>)
2291 masks_dr unique: tensor([-7.4995, -7.4853, -7.4765, ..., 12.2497, 12.2520, 12.2530],
2292
           grad_fn=<Unique2Backward0>)
2293 print_dice: 0.4158112108707428, print_iou: 0.26247578859329224
2294 Epoch 20/499: 16% ■ | 26/160 [04:12<21:21, 9.56s/it]masks_dr unique: tensor([-7.
    5022, -7.4983, -7.4961, ..., 11.3876, 11.3882, 11.3920],
2295
           grad_fn=<Unique2Backward0>)
2296 masks_dr unique: tensor([-7.5022, -7.4983, -7.4961, ..., 11.3876, 11.3882, 11.3920],
2297
           grad fn=<Unique2Backward0>)
2298 Epoch 20/499: 17%
                                 27/160 [04:22<21:17, 9.61s/it]print dice: 0.4388047158718109
        print_iou: 0.28106972575187683
2299 masks_dr unique: tensor([-7.1931, -7.1790, -7.1772, ..., 12.2545, 12.2553, 12.2567],
           grad_fn=<Unique2Backward0>)
2301 masks_dr unique: tensor([-7.1931, -7.1790, -7.1772, ..., 12.2545, 12.2553, 12.2567],
2302
           grad fn=<Unique2Backward0>)
                                 28/160 [04:31<21:06, 9.59s/it]print dice: 0.
2303 Epoch 20/499: 18%
    47351714968681335, print_iou: 0.3102014362812042
2304 masks_dr unique: tensor([-7.3191, -7.3007, -7.2906, ..., 11.6022, 11.6025, 11.6102],
2305
           grad_fn=<Unique2Backward0>)
2306 masks_dr unique: tensor([-7.3191, -7.3007, -7.2906, ..., 11.6022, 11.6025, 11.6102],
           grad_fn=<Unique2Backward0>)
2308 Epoch 20/499: 18%
                                 29/160 [04:41<20:55, 9.58s/it]print_dice: 0.5410990118980408
        print_iou: 0.3708949685096741
2309 masks_dr unique: tensor([-7.5044, -7.4883, -7.4759, ..., 11.5752, 11.5759, 11.5773],
           grad fn=<Unique2Backward0>)
2311 masks_dr unique: tensor([-7.5044, -7.4883, -7.4759, ..., 11.5752, 11.5759, 11.5773],
           grad_fn=<Unique2Backward0>)
                             | 30/160 [04:50<20:40, 9.54s/it]print_dice: 0.5083650350570679
2313 Epoch 20/499: 19%
        print_iou: 0.340810626745224
2314 masks_dr unique: tensor([-7.5082, -7.5021, -7.5020, ..., 11.3837, 11.3842, 11.3879],
           grad_fn=<Unique2Backward0>)
2316 masks_dr unique: tensor([-7.5082, -7.5021, -7.5020, ..., 11.3837, 11.3842, 11.3879],
           grad_fn=<Unique2Backward0>)
2317
2318 Epoch 20/499: 19%
                                 | 31/160 [05:00<20:21, 9.47s/it]print_dice: 0.577610969543457
        print iou: 0.4060851037502289
2319 masks_dr unique: tensor([-7.2793, -7.2782, -7.2687, ..., 11.2408, 11.2412, 11.2462],
2320
           grad_fn=<Unique2Backward0>)
2321 masks_dr unique: tensor([-7.2793, -7.2782, -7.2687, ..., 11.2408, 11.2412, 11.2462],
           grad_fn=<Unique2Backward0>)
2322
2323 Epoch 20/499: 20%
                                 32/160 [05:09<20:12, 9.47s/it]print_dice: 0.4713177978992462
        print_iou: 0.3083164095878601
2324 masks_dr unique: tensor([-7.8428, -7.8254, -7.8193, ..., 12.8477, 12.8502, 12.8511],
           grad_fn=<Unique2Backward0>)
2325
2326 masks_dr unique: tensor([-7.8428, -7.8254, -7.8193, ..., 12.8477, 12.8502, 12.8511],
2327
           grad_fn=<Unique2Backward0>)
2328 print_dice: 0.5250802040100098, print_iou: 0.3560059666633606
2329 Epoch 20/499: 21%
                                 | 33/160 [05:19<20:03, 9.48s/it]masks_dr unique: tensor([-7.
    5098, -7.5053, -7.5037, ..., 11.3923, 11.3928, 11.3966],
2330
           grad fn=<Unique2Backward0>)
2331 masks_dr unique: tensor([-7.5098, -7.5053, -7.5037, ..., 11.3923, 11.3928, 11.3966],
           grad fn=<Unique2Backward0>)
2332
2333 Epoch 20/499: 21%
                                 34/160 [05:28<19:58, 9.51s/it]print dice: 0.5685907602310181
        print iou: 0.39722445607185364
2334 masks_dr unique: tensor([-7.5118, -7.5061, -7.5056, ..., 11.3922, 11.3924, 11.3963],
```

```
grad fn=<Unique2Backward0>)
2336 masks_dr unique: tensor([-7.5118, -7.5061, -7.5056, ..., 11.3922, 11.3924, 11.3963],
           grad fn=<Unique2Backward0>)
2338 print dice: 0.5545509457588196, print iou: 0.38365304470062256
2339 Epoch 20/499: 22%
    5118, -7.5063, -7.5056, ..., 11.3904, 11.3906, 11.3945],
           grad_fn=<Unique2Backward0>)
2340
2341 masks_dr unique: tensor([-7.5118, -7.5063, -7.5056, ..., 11.3904, 11.3906, 11.3945],
           grad_fn=<Unique2Backward0>)
                               | 36/160 [05:47<19:39, 9.51s/it]print_dice: 0.471906453371048
2343 Epoch 20/499: 22%
        print iou: 0.3088203966617584
2344 masks_dr unique: tensor([-7.7081, -7.6993, -7.6781, ..., 12.0398, 12.0411, 12.0471],
           grad_fn=<Unique2Backward0>)
2345
2346 masks dr unique: tensor([-7.7081, -7.6993, -7.6781, ..., 12.0398, 12.0411, 12.0471],
2347
           grad fn=<Unique2Backward0>)
2348 print_dice: 0.5318408608436584, print_iou: 0.3622501492500305
2349 Epoch 20/499: 23%
    5146, -7.5083, -7.5079, ..., 11.3940, 11.3945, 11.3983],
2350
           grad_fn=<Unique2Backward0>)
2351 masks_dr unique: tensor([-7.5146, -7.5083, -7.5079, ..., 11.3940, 11.3945, 11.3983],
           grad_fn=<Unique2Backward0>)
2352
2353 Epoch 20/499: 24%
                               38/160 [06:06<19:22, 9.53s/it]print_dice: 0.5222970843315125
        print iou: 0.35345202684402466
2354 masks_dr unique: tensor([-7.5152, -7.5088, -7.5082, ..., 11.3875, 11.3882, 11.3918],
           grad fn=<Unique2Backward0>)
2356 masks dr unique: tensor([-7.5152, -7.5088, -7.5082, ..., 11.3875, 11.3882, 11.3918],
           grad fn=<Unique2Backward0>)
2357
2358 print dice: 0.49907389283180237, print iou: 0.33251065015792847
2359 Epoch 20/499: 24%
    6324, -7.6187, -7.6075, ..., 12.5407, 12.5435, 12.5443],
2360
           grad_fn=<Unique2Backward0>)
2361 masks_dr unique: tensor([-7.6324, -7.6187, -7.6075, ..., 12.5407, 12.5435, 12.5443],
           grad fn=<Unique2Backward0>)
                               40/160 [06:25<18:53, 9.45s/it]print_dice: 0.5413810610771179
2363 Epoch 20/499: 25%
        print iou: 0.37116003036499023
2364 masks dr unique: tensor([-7.3453, -7.3391, -7.3349, ..., 12.7437, 12.7445, 12.7449],
           grad_fn=<Unique2Backward0>)
2365
2366 masks dr unique: tensor([-7.3453, -7.3391, -7.3349, ..., 12.7437, 12.7445, 12.7449],
           grad_fn=<Unique2Backward0>)
2367
                               | 41/160 [06:35<18:46, 9.46s/it]print_dice: 0.5181596875190735
2368 Epoch 20/499: 26%
        print_iou: 0.3496730923652649
2369 masks_dr unique: tensor([-7.3211, -7.3165, -7.3143, ..., 12.0319, 12.0344, 12.0393],
2370
           grad_fn=<Unique2Backward0>)
2371 masks_dr unique: tensor([-7.3211, -7.3165, -7.3143, ..., 12.0319, 12.0344, 12.0393],
2372
           grad_fn=<Unique2Backward0>)
2373 print_dice: 0.4725461006164551, print_iou: 0.3093684911727905
2374 Epoch 20/499: 26%
    2503, -7.2439, -7.2401, ..., 11.5388, 11.5396, 11.5462],
2375
           grad_fn=<Unique2Backward0>)
2376 masks_dr unique: tensor([-7.2503, -7.2439, -7.2401, ..., 11.5388, 11.5396, 11.5462],
2377
           grad_fn=<Unique2Backward0>)
2378 print_dice: 0.582939863204956, print_iou: 0.41137269139289856
2379 Epoch 20/499: 27% 43/160 [06:54<18:43, 9.60s/it] masks_dr unique: tensor([-7.
    5052, -7.4938, -7.4825, ..., 12.0578, 12.0589, 12.0636],
           grad_fn=<Unique2Backward0>)
2381 masks_dr unique: tensor([-7.5052, -7.4938, -7.4825, ..., 12.0578, 12.0589, 12.0636],
2382
           grad_fn=<Unique2Backward0>)
                                  print iou: 0.37506112456321716
2383 print_dice: 0.545519232749939,
2384 Epoch 20/499: 28%
                               44/160 [07:04<18:28, 9.55s/it]masks_dr unique: tensor([-7.
    3722, -7.3683, -7.3660, ..., 11.1505, 11.1511, 11.1570],
2385
           grad_fn=<Unique2Backward0>)
2386 masks dr unique: tensor([-7.3722, -7.3683, -7.3660, ..., 11.1505, 11.1511, 11.1570],
           grad_fn=<Unique2Backward0>)
2387
2388 Epoch 20/499: 28%
                               45/160 [07:13<18:23, 9.59s/it]print dice: 0.
                       print iou: 0.3217715620994568
    48687922954559326,
2389 masks_dr unique: tensor([-7.5289, -7.5223, -7.5147, ..., 11.3979, 11.3983, 11.4022],
           grad fn=<Unique2Backward0>)
2390
2391 masks dr unique: tensor([-7.5289, -7.5223, -7.5147, ..., 11.3979, 11.3983, 11.4022],
2392
           grad fn=<Unique2Backward0>)
```

```
46/160 [07:22<18:02, 9.49s/it]print dice: 0.5097500085830688
2393 Epoch 20/499: 29%
        print_iou: 0.3420566916465759
2394 masks_dr unique: tensor([-7.5324, -7.5258, -7.5171, ..., 11.3969, 11.3997, 11.3998],
2395
           grad fn=<Unique2Backward0>)
2396 masks dr unique: tensor([-7.5324, -7.5258, -7.5171, ..., 11.3969, 11.3997, 11.3998],
           grad_fn=<Unique2Backward0>)
2398 print_dice: 0.5528711676597595, print_iou: 0.3820469379425049
2399 Epoch 20/499: 29% 47/160 [07:32<17:59, 9.56s/it]masks_dr unique: tensor([-7.
    4596, -7.4440, -7.4435, ..., 11.8586, 11.8621, 11.8623],
2400
           grad fn=<Unique2Backward0>)
2401 masks_dr unique: tensor([-7.4596, -7.4440, -7.4435, ..., 11.8586, 11.8621, 11.8623],
           grad fn=<Unique2Backward0>)
2402
2403 print_dice: 0.5061954855918884, print_iou: 0.3388632833957672
2404 Epoch 20/499: 30% 48/160 [07:42<17:53, 9.58s/it] masks_dr unique: tensor([-7.
    3260, -7.3157, -7.3090, ..., 12.0387, 12.0389, 12.0402],
2405
           grad_fn=<Unique2Backward0>)
2406 masks_dr unique: tensor([-7.3260, -7.3157, -7.3090, ..., 12.0387, 12.0389, 12.0402],
           grad_fn=<Unique2Backward0>)
2408 print_dice: 0.519926130771637, print_iou: 0.35128387808799744
2409 Epoch 20/499: 31% 49/160 [07:51<17:42, 9.57s/it]masks_dr unique: tensor([-7.
    2986, -7.2892, -7.2884, ..., 11.7952, 11.7964, 11.8014],
2410
           grad_fn=<Unique2Backward0>)
2411 masks_dr unique: tensor([-7.2986, -7.2892, -7.2884, ..., 11.7952, 11.7964, 11.8014],
2412
           grad fn=<Unique2Backward0>)
2413 print dice: 0.4731762409210205, print iou: 0.3099088966846466
2414 Epoch 20/499: 31%| | 50/160 [08:01<17:27, 9.53s/it]masks_dr unique: tensor([-7.
    5349, -7.5282, -7.5188, ..., 11.4010, 11.4013, 11.4053],
2415
           grad_fn=<Unique2Backward0>)
2416 masks dr unique: tensor([-7.5349, -7.5282, -7.5188, ..., 11.4010, 11.4013, 11.4053],
2417
           grad fn=<Unique2Backward0>)
                                | 51/160 [08:10<17:16, 9.51s/it]print_dice: 0.5229940414428711
2418 Epoch 20/499: 32%
        print_iou: 0.35409069061279297
2419 masks_dr unique: tensor([-7.4535, -7.4505, -7.4451, ..., 11.6216, 11.6217, 11.6280],
2420
           grad_fn=<Unique2Backward0>)
2421 masks dr unique: tensor([-7.4535, -7.4505, -7.4451, ..., 11.6216, 11.6217, 11.6280],
           grad_fn=<Unique2Backward0>)
2423 print dice: 0.47303053736686707, print_iou: 0.3097839057445526
2424 Epoch 20/499: 32% 52/160 [08:20<17:07, 9.51s/it]masks_dr unique: tensor([-7.
    6917, -7.6731, -7.6707, ..., 12.9377, 12.9394, 12.9407],
2425
           grad fn=<Unique2Backward0>)
2426 masks_dr unique: tensor([-7.6917, -7.6731, -7.6707, ..., 12.9377, 12.9394, 12.9407],
2427
           grad_fn=<Unique2Backward0>)
2428 Epoch 20/499: 33%
                                 | 53/160 [08:29<17:02, 9.56s/it]print_dice: 0.5735572576522827
        print_iou: 0.4020892381668091
2429 masks_dr unique: tensor([-7.5642, -7.5629, -7.5515, ..., 12.8385, 12.8397, 12.8433],
           grad_fn=<Unique2Backward0>)
2431 masks_dr unique: tensor([-7.5642, -7.5629, -7.5515, ..., 12.8385, 12.8397, 12.8433],
           grad_fn=<Unique2Backward0>)
2432
                                 54/160 [08:39<16:51, 9.54s/it]print_dice: 0.5137081742286682
2433 Epoch 20/499: 34%
        print iou: 0.3456307649612427
2434 masks_dr unique: tensor([-7.4518, -7.4432, -7.4217, ..., 11.4716, 11.4720, 11.4781],
2435
           grad fn=<Unique2Backward0>)
2436 masks dr unique: tensor([-7.4518, -7.4432, -7.4217, ..., 11.4716, 11.4720, 11.4781],
2437
           grad_fn=<Unique2Backward0>)
2438 print_dice: 0.5309539437294006, print_iou: 0.3614277243614197
2439 Epoch 20/499: 34% 55/160 [08:48<16:41, 9.54s/it] masks_dr unique: tensor([-7.
    9094, -7.8939, -7.8869, ..., 12.9829, 12.9847, 12.9865],
2440
           grad_fn=<Unique2Backward0>)
2441 masks_dr unique: tensor([-7.9094, -7.8939, -7.8869, ..., 12.9829, 12.9847, 12.9865],
           grad fn=<Unique2Backward0>)
2442
2443 Epoch 20/499: 35%
                                 56/160 [08:58<16:31, 9.53s/it]print_dice: 0.5604739189147949
        print_iou: 0.3893461525440216
2444 masks_dr unique: tensor([-7.5412, -7.5346, -7.5205, ..., 11.4022, 11.4024, 11.4064],
           grad_fn=<Unique2Backward0>)
2446 masks_dr unique: tensor([-7.5412, -7.5346, -7.5205, ..., 11.4022, 11.4024, 11.4064],
           grad fn=<Unique2Backward0>)
2447
2448 Epoch 20/499: 36%
                                 57/160 [09:08<16:28, 9.60s/it]print_dice: 0.522594690322876
        print_iou: 0.3537246584892273
2449 masks_dr unique: tensor([-7.5413, -7.5347, -7.5200, ..., 11.3984, 11.3993, 11.4020],
```

```
grad fn=<Unique2Backward0>)
2451 masks_dr unique: tensor([-7.5413, -7.5347, -7.5200, ..., 11.3984, 11.3993, 11.4020],
           grad fn=<Unique2Backward0>)
2453 print dice: 0.512439489364624, print_iou: 0.3444831073284149
2454 Epoch 20/499: 36% 58/160 [09:17<16:22, 9.63s/it] masks_dr unique: tensor([-7.
    4570, -7.4522, -7.4435, ..., 12.6567, 12.6582, 12.6592],
           grad_fn=<Unique2Backward0>)
2455
2456 masks_dr unique: tensor([-7.4570, -7.4522, -7.4435, ..., 12.6567, 12.6582, 12.6592],
           grad_fn=<Unique2Backward0>)
2457
                                 | 59/160 [09:27<16:07, 9.58s/it]print_dice: 0.5379199981689453
2458 Epoch 20/499: 37%
        print iou: 0.36791419982910156
2459 masks dr unique: tensor([-7.5428, -7.5361, -7.5192, ..., 11.3992, 11.3998, 11.4034],
           grad fn=<Unique2Backward0>)
2460
2461 masks dr unique: tensor([-7.5428, -7.5361, -7.5192, ..., 11.3992, 11.3998, 11.4034],
           grad fn=<Unique2Backward0>)
2462
2463 Epoch 20/499: 38%
                                 60/160 [09:37<16:02, 9.62s/it]print_dice: 0.5283079147338867
        print iou: 0.3589799404144287
2464 masks_dr unique: tensor([-7.6757, -7.6667, -7.6585, ..., 12.4367, 12.4399, 12.4417],
2465
           grad_fn=<Unique2Backward0>)
2466 masks_dr unique: tensor([-7.6757, -7.6667, -7.6585, ..., 12.4367, 12.4399, 12.4417],
           grad_fn=<Unique2Backward0>)
2467
2468 print_dice: 0.4986054301261902, print_iou: 0.33209487795829773
2469 Epoch 20/499: 38% 61/160 [09:46<15:46, 9.56s/it]masks dr unique: tensor([-7.
    5451, -7.5384, -7.5193, ..., 11.4067, 11.4075, 11.4112],
2470
           grad_fn=<Unique2Backward0>)
2471 masks dr unique: tensor([-7.5451, -7.5384, -7.5193, ..., 11.4067, 11.4075, 11.4112],
           grad fn=<Unique2Backward0>)
2472
2473 print dice: 0.5322450399398804, print iou: 0.3626253008842468
2474 Epoch 20/499: 39% 62/160 [09:55<15:33, 9.52s/it]masks_dr unique: tensor([-7.
    6793, -7.6576, -7.6452, ..., 11.6743, 11.6759, 11.6795],
2475
           grad_fn=<Unique2Backward0>)
2476 masks_dr unique: tensor([-7.6793, -7.6576, -7.6452, ..., 11.6743, 11.6759, 11.6795],
           grad_fn=<Unique2Backward0>)
2478 Epoch 20/499: 39%
                                 63/160 [10:05<15:24, 9.53s/it]print_dice: 0.5734905004501343
        print iou: 0.4020236134529114
2479 masks dr unique: tensor([-7.8344, -7.8179, -7.8134, ..., 11.6547, 11.6571, 11.6586],
           grad_fn=<Unique2Backward0>)
2480
2481 masks_dr unique: tensor([-7.8344, -7.8179, -7.8134, ..., 11.6547, 11.6571, 11.6586],
           grad_fn=<Unique2Backward0>)
2483 Epoch 20/499: 40%
                                 | 64/160 [10:14<15:11, 9.49s/it]print_dice: 0.4816924035549164
        print_iou: 0.3172561228275299
2484 masks_dr unique: tensor([-7.6707, -7.6549, -7.6356, ..., 12.2763, 12.2769, 12.2776],
2485
           grad_fn=<Unique2Backward0>)
2486 masks_dr unique: tensor([-7.6707, -7.6549, -7.6356, ..., 12.2763, 12.2769, 12.2776],
2487
           grad_fn=<Unique2Backward0>)
2488 Epoch 20/499: 41%
                                 65/160 [10:24<14:58, 9.46s/it]print_dice: 0.5572841763496399
        print_iou: 0.3862743675708771
2489 masks_dr unique: tensor([-7.3919, -7.3916, -7.3790, ..., 12.1512, 12.1532, 12.1563],
2490
           grad_fn=<Unique2Backward0>)
2491 masks_dr unique: tensor([-7.3919, -7.3916, -7.3790, ..., 12.1512, 12.1532, 12.1563],
2492
           grad_fn=<Unique2Backward0>)
2493 print_dice: 0.5969313979148865, print_iou: 0.4254470765590668
2494 Epoch 20/499: 41% 66/160 [10:33<14:50, 9.48s/it]masks_dr unique: tensor([-7.
    5469, -7.5402, -7.5210, ..., 11.4098, 11.4103, 11.4135],
           grad_fn=<Unique2Backward0>)
2496 masks_dr unique: tensor([-7.5469, -7.5402, -7.5210, ..., 11.4098, 11.4103, 11.4135],
2497
           grad_fn=<Unique2Backward0>)
                                     print_iou: 0.3689483404159546
2498 print dice: 0.5390244722366333,
2499 Epoch 20/499: 42%
                                 67/160 [10:43<14:52, 9.60s/it]masks_dr unique: tensor([-7.
    5467, -7.5400, -7.5208, ..., 11.4114, 11.4120, 11.4145],
2500
           grad_fn=<Unique2Backward0>)
2501 masks_dr unique: tensor([-7.5467, -7.5400, -7.5208, ..., 11.4114, 11.4120, 11.4145],
           grad fn=<Unique2Backward0>)
2502
2503 print dice: 0.5030667781829834,
                                    print_iou: 0.3360649347305298
2504 Epoch 20/499: 42%
                                 68/160 [10:53<14:45, 9.63s/it]masks_dr unique: tensor([-7.
    2838, -7.2706, -7.2553, ..., 12.4170, 12.4183, 12.4191],
2505
           grad fn=<Unique2Backward0>)
2506 masks_dr unique: tensor([-7.2838, -7.2706, -7.2553, ..., 12.4170, 12.4183, 12.4191],
2507
           grad fn=<Unique2Backward0>)
```

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2508 print dice: 0.4700339436531067, print iou: 0.3072185516357422
2509 Epoch 20/499: 43% 69/160 [11:02<14:27, 9.53s/it]masks_dr unique: tensor([-7.
    5367, -7.5323, -7.5263, ..., 12.2759, 12.2762, 12.2770],
2510
           grad fn=<Unique2Backward0>)
2511 masks_dr unique: tensor([-7.5367, -7.5323, -7.5263, ..., 12.2759, 12.2762, 12.2770],
           grad_fn=<Unique2Backward0>)
2513 print_dice: 0.4460168480873108, print_iou: 0.28701525926589966
2514 Epoch 20/499: 44%
    5518, -7.5452, -7.5259, ..., 11.4124, 11.4148, 11.4153],
2515
           grad fn=<Unique2Backward0>)
2516 masks dr unique: tensor([-7.5518, -7.5452, -7.5259, ..., 11.4124, 11.4148, 11.4153],
           grad_fn=<Unique2Backward0>)
2517
                               | 71/160 [11:22<14:16, 9.62s/it]print dice: 0.586050271987915
2518 Epoch 20/499: 44%
        print_iou: 0.4144774079322815
2519 masks_dr unique: tensor([-7.1896, -7.1807, -7.1754, ..., 12.7874, 12.7884, 12.7887],
           grad fn=<Unique2Backward0>)
2521 masks_dr unique: tensor([-7.1896, -7.1807, -7.1754, ..., 12.7874, 12.7884, 12.7887],
2522
           grad_fn=<Unique2Backward0>)
2523 print_dice: 0.4843241572380066, print_iou: 0.31954336166381836
2524 Epoch 20/499: 45%| 72/160 [11:31<14:03, 9.59s/it]masks_dr unique: tensor([-7.
    4077, -7.3936, -7.3823, ..., 11.3329, 11.3354, 11.3399],
2525
           grad_fn=<Unique2Backward0>)
2526 masks_dr unique: tensor([-7.4077, -7.3936, -7.3823, ..., 11.3329, 11.3354, 11.3399],
2527
           grad fn=<Unique2Backward0>)
2528 Epoch 20/499: 46%
                                73/160 [11:41<13:56, 9.62s/it]print_dice: 0.5802042484283447
        print iou: 0.40865328907966614
2529 masks_dr unique: tensor([-7.2941, -7.2882, -7.2860, ..., 11.7898, 11.7910, 11.7967],
           grad_fn=<Unique2Backward0>)
2531 masks_dr unique: tensor([-7.2941, -7.2882, -7.2860, ..., 11.7898, 11.7910, 11.7967],
2532
           grad_fn=<Unique2Backward0>)
2533 print_dice: 0.5086243748664856, print_iou: 0.34104377031326294
2534 Epoch 20/499: 46% 74/160 [11:50<13:44, 9.59s/it] masks_dr unique: tensor([-7.
    3394, -7.3318, -7.3220, ..., 11.8152, 11.8165, 11.8236],
2535
           grad_fn=<Unique2Backward0>)
2536 masks dr unique: tensor([-7.3394, -7.3318, -7.3220, ..., 11.8152, 11.8165, 11.8236],
           grad_fn=<Unique2Backward0>)
2538 print_dice: 0.49628984928131104, print_iou: 0.33004358410835266
2539 Epoch 20/499: 47%
    0877, -7.0817, -7.0738, ..., 11.2383, 11.2419, 11.2447],
2540
           grad fn=<Unique2Backward0>)
2541 masks_dr unique: tensor([-7.0877, -7.0817, -7.0738, ..., 11.2383, 11.2419, 11.2447],
           grad_fn=<Unique2Backward0>)
2543 Epoch 20/499: 48% 76/160 [12:10<13:32, 9.67s/it]print_dice: 0.5267492532730103
        print_iou: 0.3575421869754791
2544 masks_dr unique: tensor([-7.5611, -7.5548, -7.5359, ..., 11.4160, 11.4191, 11.4222],
           grad_fn=<Unique2Backward0>)
2546 masks_dr unique: tensor([-7.5611, -7.5548, -7.5359, ..., 11.4160, 11.4191, 11.4222],
           grad_fn=<Unique2Backward0>)
2547
                                | 77/160 [12:19<13:16, 9.60s/it]print_dice: 0.5659897923469543
2548 Epoch 20/499: 48%
        print iou: 0.39469021558761597
2549 masks_dr unique: tensor([-7.3315, -7.3310, -7.3217, ..., 12.7890, 12.7914, 12.7921],
2550
           grad fn=<Unique2Backward0>)
2551 masks_dr unique: tensor([-7.3315, -7.3310, -7.3217, ..., 12.7890, 12.7914, 12.7921],
           grad_fn=<Unique2Backward0>)
2552
2553 print_dice: 0.5535966157913208, print_iou: 0.3827401101589203
2554 Epoch 20/499: 49% | 78/160 [12:29<13:05, 9.58s/it]masks_dr unique: tensor([-7.
    8929, -7.8686, -7.8622, ..., 12.3008, 12.3068, 12.3088],
           grad fn=<Unique2Backward0>)
2555
2556 masks dr unique: tensor([-7.8929, -7.8686, -7.8622, ..., 12.3008, 12.3068, 12.3088],
2557
           grad fn=<Unique2Backward0>)
2558 Epoch 20/499: 49%
                                79/160 [12:39<12:58, 9.62s/it]print_dice: 0.5157046914100647
        print_iou: 0.34744077920913696
2559 masks dr unique: tensor([-7.4563, -7.4385, -7.4289, ..., 11.9405, 11.9475, 11.9524],
           grad fn=<Unique2Backward0>)
2561 masks dr unique: tensor([-7.4563, -7.4385, -7.4289, ..., 11.9405, 11.9475, 11.9524],
           grad_fn=<Unique2Backward0>)
2562
2563 print dice: 0.5273634791374207,
                                    print iou: 0.35810837149620056
2564 Epoch 20/499: 50%
                                80/160 [12:48<12:47, 9.59s/it]masks dr unique: tensor([-7.
    5658, -7.5595, -7.5405, ..., 11.4171, 11.4203, 11.4234],
```

```
grad fn=<Unique2Backward0>)
2566 masks_dr unique: tensor([-7.5658, -7.5595, -7.5405, ..., 11.4171, 11.4203, 11.4234],
           grad fn=<Unique2Backward0>)
2568 print_dice: 0.5142809152603149, print_iou: 0.3461495041847229
2569 Epoch 20/499: 51% 81/160 [12:58<12:40, 9.62s/it] masks_dr unique: tensor([-7.
    5663, -7.5600, -7.5412, ..., 11.4186, 11.4204, 11.4235],
           grad fn=<Unique2Backward0>)
2570
2571 masks_dr unique: tensor([-7.5663, -7.5600, -7.5412, ..., 11.4186, 11.4204, 11.4235],
2572
           grad_fn=<Unique2Backward0>)
2573 print dice: 0.5478708744049072, print iou: 0.37728795409202576
2574 Epoch 20/499: 51% | 82/160 [13:07<12:26, 9.58s/it]masks_dr unique: tensor([-7.
    6034, -7.5764, -7.5763, ..., 12.0604, 12.0633, 12.0660],
2575
           grad_fn=<Unique2Backward0>)
2576 masks dr unique: tensor([-7.6034, -7.5764, -7.5763, ..., 12.0604, 12.0633, 12.0660],
           grad fn=<Unique2Backward0>)
2577
2578 print_dice: 0.6125060319900513, print_iou: 0.4414477050304413
2579 Epoch 20/499: 52%| | 83/160 [13:17<12:17, 9.57s/it]masks_dr unique: tensor([-7.
    5673, -7.5609, -7.5419, ..., 11.4212, 11.4244, 11.4277],
2580
           grad_fn=<Unique2Backward0>)
2581 masks_dr unique: tensor([-7.5673, -7.5609, -7.5419, ..., 11.4212, 11.4244, 11.4277],
           grad_fn=<Unique2Backward0>)
2582
2583 print_dice: 0.43116793036460876, print_iou: 0.27483370900154114
2584 Epoch 20/499: 52% | 84/160 [13:26<12:07, 9.58s/it]masks dr unique: tensor([-7.
    3995, -7.3968, -7.3843, ..., 12.8356, 12.8359, 12.8400],
2585
           grad_fn=<Unique2Backward0>)
2586 masks_dr unique: tensor([-7.3995, -7.3968, -7.3843, ..., 12.8356, 12.8359, 12.8400],
           grad fn=<Unique2Backward0>)
2587
2588 print dice: 0.561310350894928, print iou: 0.3901538848876953
2589 Epoch 20/499: 53% | 85/160 [13:36<12:00, 9.61s/it]masks dr unique: tensor([-7.
    5696, -7.5632, -7.5442, ..., 11.4220, 11.4252, 11.4284],
2590
           grad_fn=<Unique2Backward0>)
2591 masks_dr unique: tensor([-7.5696, -7.5632, -7.5442, ..., 11.4220, 11.4252, 11.4284],
           grad fn=<Unique2Backward0>)
                                 86/160 [13:46<11:51, 9.61s/it]print_dice: 0.5124162435531616
2593 Epoch 20/499: 54%
        print_iou: 0.3444620966911316
2594 masks_dr unique: tensor([-7.5708, -7.5643, -7.5452, ..., 11.4247, 11.4280, 11.4313],
           grad_fn=<Unique2Backward0>)
2595
2596 masks dr unique: tensor([-7.5708, -7.5643, -7.5452, ..., 11.4247, 11.4280, 11.4313],
           grad_fn=<Unique2Backward0>)
2598 Epoch 20/499: 54%
                                 | 87/160 [13:55<11:38, 9.57s/it]print_dice: 0.501641035079956
        print_iou: 0.33479365706443787
2599 masks_dr unique: tensor([-7.5732, -7.5666, -7.5474, ..., 11.4239, 11.4271, 11.4303],
2600
           grad_fn=<Unique2Backward0>)
2601 masks_dr unique: tensor([-7.5732, -7.5666, -7.5474, ..., 11.4239, 11.4271, 11.4303],
2602
           grad_fn=<Unique2Backward0>)
2603 Epoch 20/499: 55%
                                 88/160 [14:05<11:28, 9.56s/it]print_dice: 0.5772109031677246
        print_iou: 0.4056897461414337
2604 masks_dr unique: tensor([-7.5724, -7.5658, -7.5466, ..., 11.4270, 11.4305, 11.4340],
           grad_fn=<Unique2Backward0>)
2606 masks dr unique: tensor([-7.5724, -7.5658, -7.5466, ..., 11.4270, 11.4305, 11.4340],
2607
           grad_fn=<Unique2Backward0>)
2608 print_dice: 0.507010281085968, print_iou: 0.33959394693374634
2609 Epoch 20/499: 56% 89/160 [14:14<11:20, 9.58s/it]masks_dr unique: tensor([-7.
    5229, -7.5192, -7.5067, ..., 12.6163, 12.6170, 12.6211],
           grad_fn=<Unique2Backward0>)
2611 masks_dr unique: tensor([-7.5229, -7.5192, -7.5067, ..., 12.6163, 12.6170, 12.6211],
2612
           grad_fn=<Unique2Backward0>)
2613 print dice: 0.5387297868728638,
                                     print iou: 0.368672251701355
2614 Epoch 20/499: 56%
                                 90/160 [14:24<11:16, 9.66s/it]masks_dr unique: tensor([-7.
    5753, -7.5686, -7.5492, ..., 11.4280, 11.4313, 11.4345],
           grad fn=<Unique2Backward0>)
2615
2616 masks dr unique: tensor([-7.5753, -7.5686, -7.5492, ..., 11.4280, 11.4313, 11.4345],
           grad fn=<Unique2Backward0>)
2617
2618 Epoch 20/499: 57%
                                 91/160 [14:34<11:03, 9.61s/it]print_dice: 0.51126629114151
        print_iou: 0.34342363476753235
2619 masks dr unique: tensor([-7.8465, -7.8293, -7.8252, ..., 12.7245, 12.7266, 12.7280],
           grad fn=<Unique2Backward0>)
2620
2621 masks_dr unique: tensor([-7.8465, -7.8293, -7.8252, ..., 12.7245, 12.7266, 12.7280],
           grad fn=<Unique2Backward0>)
2622
```

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2623 Epoch 20/499: 57% 92/160 [14:43<10:50, 9.57s/it]print dice: 0.5898566246032715
        print_iou: 0.4182955026626587
2624 masks dr unique: tensor([-7.6879, -7.6765, -7.6642, ..., 11.6370, 11.6399, 11.6427],
2625
           grad fn=<Unique2Backward0>)
2626 masks_dr unique: tensor([-7.6879, -7.6765, -7.6642, ..., 11.6370, 11.6399, 11.6427],
           grad_fn=<Unique2Backward0>)
2628 print_dice: 0.5589667558670044, print_iou: 0.38789305090904236
2629 Epoch 20/499: 58% 93/160 [14:53<10:37, 9.52s/it]masks_dr unique: tensor([-7.
    5774, -7.5705, -7.5509, ..., 11.4285, 11.4318, 11.4351],
           grad fn=<Unique2Backward0>)
2630
2631 masks_dr unique: tensor([-7.5774, -7.5705, -7.5509, ..., 11.4285, 11.4318, 11.4351],
           grad_fn=<Unique2Backward0>)
2632
2633 print_dice: 0.5412296056747437, print_iou: 0.3710176646709442
2634 Epoch 20/499: 59%| 94/160 [15:02<10:29, 9.54s/it]masks_dr unique: tensor([-7.
    6420, -7.6384, -7.6372, ..., 11.8038, 11.8049, 11.8120],
2635
           grad fn=<Unique2Backward0>)
2636 masks_dr unique: tensor([-7.6420, -7.6384, -7.6372, ..., 11.8038, 11.8049, 11.8120],
2637
           grad_fn=<Unique2Backward0>)
2638 Epoch 20/499: 59%
                                95/160 [15:12<10:20, 9.55s/it]print_dice: 0.4875790774822235
        print_iou: 0.32238319516181946
2639 masks_dr unique: tensor([-7.5796, -7.5725, -7.5527, ..., 11.4255, 11.4287, 11.4318],
           grad_fn=<Unique2Backward0>)
2641 masks_dr unique: tensor([-7.5796, -7.5725, -7.5527, ..., 11.4255, 11.4287, 11.4318],
2642
           grad fn=<Unique2Backward0>)
2643 Epoch 20/499: 60%
                                 96/160 [15:21<10:10, 9.54s/it]print_dice: 0.4889827370643616
        print_iou: 0.32361161708831787
2644 masks_dr unique: tensor([-7.5798, -7.5727, -7.5530, ..., 11.4252, 11.4284, 11.4315],
           grad_fn=<Unique2Backward0>)
2645
2646 masks_dr unique: tensor([-7.5798, -7.5727, -7.5530, ..., 11.4252, 11.4284, 11.4315],
           grad fn=<Unique2Backward0>)
2647
2648 Epoch 20/499: 61%
                                97/160 [15:31<10:00, 9.53s/it]print_dice: 0.5549424290657043
        print_iou: 0.384027898311615
2649 masks_dr unique: tensor([-7.4868, -7.4839, -7.4753, ..., 11.6922, 11.6957, 11.6992],
           grad fn=<Unique2Backward0>)
2650
2651 masks dr unique: tensor([-7.4868, -7.4839, -7.4753, ..., 11.6922, 11.6957, 11.6992],
           grad_fn=<Unique2Backward0>)
2653 Epoch 20/499: 61%
                                 98/160 [15:40<09:54, 9.60s/it]print_dice: 0.5825150012969971
        print_iou: 0.4109496772289276
2654 masks_dr unique: tensor([-7.6008, -7.5852, -7.5839, ..., 12.7925, 12.7949, 12.7965],
           grad fn=<Unique2Backward0>)
2655
2656 masks_dr unique: tensor([-7.6008, -7.5852, -7.5839, ..., 12.7925, 12.7949, 12.7965],
           grad_fn=<Unique2Backward0>)
2658 print_dice: 0.5477177500724792, print_iou: 0.3771427869796753
2659 Epoch 20/499: 62% 99/160 [15:50<09:44, 9.58s/it]masks_dr unique: tensor([-7.
    5824, -7.5625, -7.5403, ..., 12.0771, 12.0779, 12.0816],
2660
           grad_fn=<Unique2Backward0>)
2661 masks_dr unique: tensor([-7.5824, -7.5625, -7.5403, ..., 12.0771, 12.0779, 12.0816],
           grad_fn=<Unique2Backward0>)
2662
2663 Epoch 20/499: 62%
                                | 100/160 [15:59<09:30, 9.51s/it]print_dice: 0.
    4623924493789673, print iou: 0.30072200298309326
2664 masks_dr unique: tensor([-7.3652, -7.3591, -7.3422, ..., 11.7634, 11.7663, 11.7695],
2665
           grad fn=<Unique2Backward0>)
2666 masks_dr unique: tensor([-7.3652, -7.3591, -7.3422, ..., 11.7634, 11.7663, 11.7695],
2667
           grad_fn=<Unique2Backward0>)
2668 print_dice: 0.5155258774757385, print_iou: 0.3472784459590912
      [100/160] eta: 0:09:35 time: 9.5464 data: 0.0006
2669
2670 Epoch 20/499: 63%
                               | 101/160 [16:09<09:17, 9.46s/it]masks dr unique: tensor([-7.
    5942, -7.5842, -7.5672, ..., 11.8898, 11.8961, 11.9008],
           grad_fn=<Unique2Backward0>)
2671
2672 masks_dr unique: tensor([-7.5942, -7.5842, -7.5672, ..., 11.8898, 11.8961, 11.9008],
           grad_fn=<Unique2Backward0>)
2673
2674 Epoch 20/499: 64%
                                | 102/160 [16:18<09:04, 9.39s/it]print_dice: 0.
    5153607130050659,
                      print_iou: 0.34712857007980347
2675 masks_dr unique: tensor([-7.7639, -7.7509, -7.7449, ..., 12.8021, 12.8060, 12.8061],
           grad_fn=<Unique2Backward0>)
2676
2677 masks_dr unique: tensor([-7.7639, -7.7509, -7.7449, ..., 12.8021, 12.8060, 12.8061],
           grad fn=<Unique2Backward0>)
2678
2679 Epoch 20/499: 64%
                                | 103/160 [16:27<08:55, 9.39s/it]print_dice: 0.
    5010582804679871,
                       print iou: 0.33427467942237854
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2680 masks dr unique: tensor([-7.6416, -7.6365, -7.6217, ..., 12.3621, 12.3637, 12.3644],
           grad_fn=<Unique2Backward0>)
2682 masks_dr unique: tensor([-7.6416, -7.6365, -7.6217, ..., 12.3621, 12.3637, 12.3644],
           grad fn=<Unique2Backward0>)
2683
| 104/160 [16:37<08:48, 9.44s/it]print_dice: 0.
    5991982817649841, print_iou: 0.4277538061141968
2685 masks_dr unique: tensor([-7.5881, -7.5810, -7.5612, ..., 11.4247, 11.4277, 11.4282],
           grad_fn=<Unique2Backward0>)
2687 masks_dr unique: tensor([-7.5881, -7.5810, -7.5612, ..., 11.4247, 11.4277, 11.4282],
           grad_fn=<Unique2Backward0>)
2688
                                | 105/160 [16:47<08:44, 9.53s/it]print_dice: 0.
2689 Epoch 20/499: 66%
    5319119095802307, print_iou: 0.3623161017894745
2690 masks dr unique: tensor([-7.2957, -7.2915, -7.2870, ..., 11.5540, 11.5558, 11.5560],
           grad fn=<Unique2Backward0>)
2692 masks_dr unique: tensor([-7.2957, -7.2915, -7.2870, ..., 11.5540, 11.5558, 11.5560],
2693
           grad_fn=<Unique2Backward0>)
2694 Epoch 20/499: 66% | 106/160 [16:56<08:38, 9.59s/it]print_dice: 0.
    48101553320884705, print_iou: 0.31666916608810425
2695 masks_dr unique: tensor([-7.5757, -7.5590, -7.5331, ..., 12.8318, 12.8320, 12.8356],
           grad_fn=<Unique2Backward0>)
2697 masks_dr unique: tensor([-7.5757, -7.5590, -7.5331, ..., 12.8318, 12.8320, 12.8356],
2698
           grad_fn=<Unique2Backward0>)
2699 Epoch 20/499: 67% | 107/160 [17:06<08:30, 9.63s/it]print_dice: 0.
    4434376060962677, print_iou: 0.28488263487815857
2700 masks dr unique: tensor([-7.5920, -7.5849, -7.5650, ..., 11.4254, 11.4286, 11.4319],
2701
           grad_fn=<Unique2Backward0>)
2702 masks_dr unique: tensor([-7.5920, -7.5849, -7.5650, ..., 11.4254, 11.4286, 11.4319],
           grad_fn=<Unique2Backward0>)
2703
2704 Epoch 20/499: 68\%
    44604089856147766, print iou: 0.28703516721725464
2705 masks_dr unique: tensor([-7.5945, -7.5874, -7.5676, ..., 11.4253, 11.4280, 11.4294],
           grad fn=<Unique2Backward0>)
2706
2707 masks_dr unique: tensor([-7.5945, -7.5874, -7.5676, ..., 11.4253, 11.4280, 11.4294],
           grad_fn=<Unique2Backward0>)
2708
2709 Epoch 20/499: 68% | 109/160 [17:25<08:10, 9.61s/it]print_dice: 0.
    5467991232872009, print_iou: 0.37627220153808594
2710 masks_dr unique: tensor([-7.2003, -7.1915, -7.1880, ..., 11.5396, 11.5448, 11.5467],
2711
           grad_fn=<Unique2Backward0>)
2712 masks_dr unique: tensor([-7.2003, -7.1915, -7.1880, ..., 11.5396, 11.5448, 11.5467],
           grad fn=<Unique2Backward0>)
2713
2714 Epoch 20/499: 69% | 110/160 [17:35<08:00, 9.61s/it]print_dice: 0.
    45359158515930176, print_iou: 0.2933194041252136
2715 masks_dr unique: tensor([-7.5940, -7.5870, -7.5673, ..., 11.4259, 11.4261, 11.4301],
           grad_fn=<Unique2Backward0>)
2717 masks_dr unique: tensor([-7.5940, -7.5870, -7.5673, ..., 11.4259, 11.4261, 11.4301],
2718
           grad_fn=<Unique2Backward0>)
2719 print_dice: 0.45396706461906433,
                                     print_iou: 0.29363352060317993
2720 Epoch 20/499: 69%| 111/160 [17:44<07:48, 9.56s/it]masks_dr unique: tensor([-7.
    5955, -7.5885, -7.5688, ..., 11.4279, 11.4303, 11.4308],
           grad fn=<Unique2Backward0>)
2721
2722 masks dr unique: tensor([-7.5955, -7.5885, -7.5688, ..., 11.4279, 11.4303, 11.4308],
2723
           grad fn=<Unique2Backward0>)
2724 Epoch 20/499: 70%
                                | 112/160 [17:54<07:38, 9.56s/it]print dice: 0.
    5359398722648621, print_iou: 0.3660641014575958
2725 masks_dr unique: tensor([-7.3970, -7.3958, -7.3902, ..., 12.8700, 12.8729, 12.8733],
2726
           grad_fn=<Unique2Backward0>)
2727 masks_dr unique: tensor([-7.3970, -7.3958, -7.3902, ..., 12.8700, 12.8729, 12.8733],
2728
           grad_fn=<Unique2Backward0>)
2729 Epoch 20/499: 71%
                                | 113/160 [18:04<07:32, 9.64s/it]print_dice: 0.
    5972083210945129,
                       print_iou: 0.4257284700870514
2730 masks dr unique: tensor([-7.1723, -7.1556, -7.1535, ..., 12.0969, 12.0973, 12.0981],
           grad fn=<Unique2Backward0>)
2731
2732 masks_dr unique: tensor([-7.1723, -7.1556, -7.1535, ..., 12.0969, 12.0973, 12.0981],
           grad_fn=<Unique2Backward0>)
2733
2734 Epoch 20/499: 71% | 114/160 [18:13<07:21, 9.61s/it]print_dice: 0.
                      print iou: 0.3447900116443634
    5127789378166199,
2735 masks_dr unique: tensor([-7.5694, -7.5545, -7.5517, ..., 12.4589, 12.4606, 12.4611],
           grad_fn=<Unique2Backward0>)
2737 masks_dr unique: tensor([-7.5694, -7.5545, -7.5517, ..., 12.4589, 12.4606, 12.4611],
```

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grad fn=<Unique2Backward0>)
2739 Epoch 20/499: 72%| | 115/160 [18:23<07:10, 9.57s/it]print_dice: 0.527249276638031
        print iou: 0.35800307989120483
2740 masks dr unique: tensor([-7.4022, -7.3907, -7.3870, ..., 12.5356, 12.5388, 12.5391],
           grad_fn=<Unique2Backward0>)
2742 masks_dr unique: tensor([-7.4022, -7.3907, -7.3870, ..., 12.5356, 12.5388, 12.5391],
           grad fn=<Unique2Backward0>)
2743
2744 Epoch 20/499: 72%
                                | 116/160 [18:32<06:59, 9.53s/it]print_dice: 0.
    6379660964012146, print_iou: 0.4683922529220581
2745 masks_dr unique: tensor([-7.3458, -7.3335, -7.3266, ..., 12.7769, 12.7796, 12.7802],
2746
           grad fn=<Unique2Backward0>)
2747 masks_dr unique: tensor([-7.3458, -7.3335, -7.3266, ..., 12.7769, 12.7796, 12.7802],
2748
           grad_fn=<Unique2Backward0>)
2749 print dice: 0.5770188570022583, print iou: 0.40549999475479126
2750 Epoch 20/499: 73%| | 117/160 [18:42<06:50, 9.56s/it]masks_dr unique: tensor([-7.
    7484, -7.7435, -7.7309, ..., 12.5211, 12.5218, 12.5232],
2751
           grad_fn=<Unique2Backward0>)
2752 masks_dr unique: tensor([-7.7484, -7.7435, -7.7309, ..., 12.5211, 12.5218, 12.5232],
2753
           grad_fn=<Unique2Backward0>)
2754 print_dice: 0.5049187541007996, print_iou: 0.3377199172973633
2755 Epoch 20/499: 74%| 118/160 [18:52<06:43, 9.61s/it]masks_dr unique: tensor([-7.
    5988, -7.5920, -7.5726, ..., 11.4373, 11.4403, 11.4432],
           grad fn=<Unique2Backward0>)
2756
2757 masks_dr unique: tensor([-7.5988, -7.5920, -7.5726, ..., 11.4373, 11.4403, 11.4432],
           grad fn=<Unique2Backward0>)
2759 Epoch 20/499: 74% | 119/160 [19:01<06:32, 9.57s/it]print_dice: 0.
    5661742091178894, print iou: 0.3948695957660675
2760 masks_dr unique: tensor([-7.5464, -7.5313, -7.5216, ..., 11.8289, 11.8307, 11.8340],
           grad_fn=<Unique2Backward0>)
2761
2762 masks dr unique: tensor([-7.5464, -7.5313, -7.5216, ..., 11.8289, 11.8307, 11.8340],
           grad fn=<Unique2Backward0>)
2764 Epoch 20/499: 75% | 2004 | 120/160 [19:11<06:22, 9.56s/it]print_dice: 0.
    5546252727508545, print_iou: 0.3837242126464844
2765 masks_dr unique: tensor([-7.4250, -7.4043, -7.4040, ..., 11.0355, 11.0387, 11.0433],
2766
           grad_fn=<Unique2Backward0>)
2767 masks_dr unique: tensor([-7.4250, -7.4043, -7.4040, ..., 11.0355, 11.0387, 11.0433],
           grad fn=<Unique2Backward0>)
2768
2769 Epoch 20/499: 76% | 2769 | 121/160 [19:20<06:11, 9.53s/it]print_dice: 0.
    5305272340774536, print_iou: 0.3610323965549469
2770 masks_dr unique: tensor([-7.5716, -7.5592, -7.5571, ..., 12.4572, 12.4594, 12.4598],
2771
           grad fn=<Unique2Backward0>)
2772 masks_dr unique: tensor([-7.5716, -7.5592, -7.5571, ..., 12.4572, 12.4594, 12.4598],
2773
           grad_fn=<Unique2Backward0>)
2774 print dice: 0.5460544228553772, print_iou: 0.3755672872066498
2775 Epoch 20/499: 76%| | 122/160 [19:29<06:01, 9.52s/it]masks_dr unique: tensor([-7.
    5973, -7.5907, -7.5716, ..., 11.4312, 11.4335, 11.4353],
2776
           grad_fn=<Unique2Backward0>)
2777 masks_dr unique: tensor([-7.5973, -7.5907, -7.5716, ..., 11.4312, 11.4335, 11.4353],
           grad fn=<Unique2Backward0>)
2778
2779 Epoch 20/499: 77% | 123/160 [19:39<05:52, 9.52s/it]print_dice: 0.
    48737627267837524, print_iou: 0.32220587134361267
2780 masks_dr unique: tensor([-7.6928, -7.6758, -7.6703, ..., 12.4106, 12.4133, 12.4142],
           grad_fn=<Unique2Backward0>)
2781
2782 masks_dr unique: tensor([-7.6928, -7.6758, -7.6703, ..., 12.4106, 12.4133, 12.4142],
           grad_fn=<Unique2Backward0>)
2784 Epoch 20/499: 78%
                        | 124/160 [19:49<05:45, 9.58s/it]print_dice: 0.
    4898768365383148, print_iou: 0.3243952989578247
2785 masks_dr unique: tensor([-7.5985, -7.5921, -7.5733, ..., 11.4338, 11.4362, 11.4379],
           grad fn=<Unique2Backward0>)
2786
2787 masks_dr unique: tensor([-7.5985, -7.5921, -7.5733, ..., 11.4338, 11.4362, 11.4379],
           grad_fn=<Unique2Backward0>)
2788
2789 print_dice: 0.5534777641296387, print_iou: 0.3826265335083008
2790 Epoch 20/499: 78% | 125/160 [19:58<05:34, 9.55s/it]masks_dr unique: tensor([-7.
    7026, -7.6918, -7.6883, ..., 12.8875, 12.8884, 12.8930],
2791
           grad_fn=<Unique2Backward0>)
2792 masks_dr unique: tensor([-7.7026, -7.6918, -7.6883, ..., 12.8875, 12.8884, 12.8930],
2793
           grad fn=<Unique2Backward0>)
2794 print dice: 0.5153492093086243, print_iou: 0.3471181392669678
2795 Epoch 20/499: 79%| | 126/160 [20:08<05:24, 9.54s/it]masks_dr unique: tensor([-7.
```

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2795 8338, -7.8246, -7.8121, ..., 12.9518, 12.9543, 12.9567],
           grad_fn=<Unique2Backward0>)
2797 masks_dr unique: tensor([-7.8338, -7.8246, -7.8121, ..., 12.9518, 12.9543, 12.9567],
2798
           grad fn=<Unique2Backward0>)
2799 Epoch 20/499: 79% | 127/160 [20:17<05:16, 9.58s/it]print_dice: 0.
    6187244653701782, print_iou: 0.44793701171875
2800 masks dr unique: tensor([-7.4312, -7.4142, -7.3992, ..., 12.0810, 12.0863, 12.0913],
           grad_fn=<Unique2Backward0>)
2801
2802 masks_dr unique: tensor([-7.4312, -7.4142, -7.3992, ..., 12.0810, 12.0863, 12.0913],
           grad fn=<Unique2Backward0>)
2803
2804 print_dice: 0.4676327109336853, print_iou: 0.30517011880874634
2805 Epoch 20/499: 80% | 128/160 [20:27<05:08, 9.65s/it]masks dr unique: tensor([-7.
    7436, -7.7290, -7.7212, ..., 12.5620, 12.5644, 12.5657],
           grad fn=<Unique2Backward0>)
2806
2807 masks_dr unique: tensor([-7.7436, -7.7290, -7.7212, ..., 12.5620, 12.5644, 12.5657],
           grad fn=<Unique2Backward0>)
2808
2809 Epoch 20/499: 81% | 129/160 [20:37<04:59, 9.65s/it]print_dice: 0.
    5551228523254395, print_iou: 0.38420072197914124
2810 masks_dr unique: tensor([-7.4014, -7.3959, -7.3844, ..., 12.9071, 12.9073, 12.9110],
           grad_fn=<Unique2Backward0>)
2812 masks_dr unique: tensor([-7.4014, -7.3959, -7.3844, ..., 12.9071, 12.9073, 12.9110],
           grad_fn=<Unique2Backward0>)
2814 Epoch 20/499: 81% | 130/160 [20:46<04:47, 9.58s/it]print_dice: 0.
    5842666625976562, print_iou: 0.41269543766975403
2815 masks dr unique: tensor([-7.4365, -7.4292, -7.4210, ..., 12.9043, 12.9046, 12.9061],
           grad fn=<Unique2Backward0>)
2816
2817 masks_dr unique: tensor([-7.4365, -7.4292, -7.4210, ..., 12.9043, 12.9046, 12.9061],
2818
           grad_fn=<Unique2Backward0>)
2819 print_dice: 0.44040900468826294.
                                      print_iou: 0.28238749504089355
2820 Epoch 20/499: 82%| | 131/160 [20:56<04:39, 9.64s/it]masks dr unique: tensor([-7.
    5983, -7.5921, -7.5735, ..., 11.4369, 11.4390, 11.4397],
           grad fn=<Unique2Backward0>)
2821
2822 masks_dr unique: tensor([-7.5983, -7.5921, -7.5735, ..., 11.4369, 11.4390, 11.4397],
2823
           grad_fn=<Unique2Backward0>)
2824 print_dice: 0.5002515912055969, print_iou: 0.33355697989463806
2825 Epoch 20/499: 82%| | 132/160 [21:06<04:29, 9.64s/it]masks_dr unique: tensor([-7.
    8554, -7.8531, -7.8509, ..., 12.5648, 12.5661, 12.5678],
2826
           grad_fn=<Unique2Backward0>)
2827 masks dr unique: tensor([-7.8554, -7.8531, -7.8509, ..., 12.5648, 12.5661, 12.5678],
2828
           grad fn=<Unique2Backward0>)
2829 print_dice: 0.5915275812149048, print_iou: 0.4199781119823456
2830 Epoch 20/499: 83%| | 133/160 [21:15<04:18, 9.58s/it]masks_dr unique: tensor([-7.
    6007, -7.5945, -7.5757, ..., 11.4470, 11.4501, 11.4532],
           grad_fn=<Unique2Backward0>)
2832 masks_dr unique: tensor([-7.6007, -7.5945, -7.5757, ..., 11.4470, 11.4501, 11.4532],
2833
           grad_fn=<Unique2Backward0>)
2834 Epoch 20/499: 84% | 134/160 [21:25<04:08, 9.57s/it]print_dice: 0.
    5411264300346375, print_iou: 0.37092071771621704
2835 masks_dr unique: tensor([-7.4157, -7.4040, -7.4004, ..., 12.7392, 12.7411, 12.7422],
2836
           grad_fn=<Unique2Backward0>)
2837 masks_dr unique: tensor([-7.4157, -7.4040, -7.4004, ..., 12.7392, 12.7411, 12.7422],
2838
           grad fn=<Unique2Backward0>)
2839 Epoch 20/499: 84% | 135/160 [21:34<04:00, 9.63s/it]print_dice: 0.
    42707255482673645, print_iou: 0.2715144753456116
2840 masks_dr unique: tensor([-7.6006, -7.5944, -7.5757, ..., 11.4440, 11.4469, 11.4497],
2841
           grad_fn=<Unique2Backward0>)
2842 masks_dr unique: tensor([-7.6006, -7.5944, -7.5757, ..., 11.4440, 11.4469, 11.4497],
2843
           grad_fn=<Unique2Backward0>)
2844 Epoch 20/499: 85%
                                | 136/160 [21:44<03:52, 9.68s/it]print_dice: 0.
    5129281282424927,
                        print_iou: 0.3449248969554901
2845 masks_dr unique: tensor([-7.6007, -7.5945, -7.5758, ..., 11.4412, 11.4442, 11.4471],
           grad fn=<Unique2Backward0>)
2846
2847 masks_dr unique: tensor([-7.6007, -7.5945, -7.5758, ..., 11.4412, 11.4442, 11.4471],
           grad_fn=<Unique2Backward0>)
2848
2849 print_dice: 0.5178965926170349, print_iou: 0.3494335114955902
2850 Epoch 20/499: 86%| | 137/160 [21:54<03:43, 9.71s/it]masks_dr unique: tensor([-7.
    6015, -7.5954, -7.5767, ..., 11.4515, 11.4546, 11.4577],
2851
           grad fn=<Unique2Backward0>)
2852 masks_dr unique: tensor([-7.6015, -7.5954, -7.5767, ..., 11.4515, 11.4546, 11.4577],
```

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2853
           grad fn=<Unique2Backward0>)
2854 Epoch 20/499: 86%| | 138/160 [22:04<03:33, 9.71s/it]print_dice: 0.
    5119979977607727, print_iou: 0.344084233045578
2855 masks dr unique: tensor([-7.6026, -7.5964, -7.5778, ..., 11.4549, 11.4581, 11.4612],
           grad fn=<Unique2Backward0>)
2857 masks_dr unique: tensor([-7.6026, -7.5964, -7.5778, ..., 11.4549, 11.4581, 11.4612],
           grad_fn=<Unique2Backward0>)
2858
2859 print_dice: 0.5468329787254333, print_iou: 0.3763042986392975
2860 Epoch 20/499: 87%|■ 10 | 139/160 [22:13<03:23, 9.69s/it]masks_dr unique: tensor([-7.
    6047, -7.5986, -7.5799, ..., 11.4540, 11.4571, 11.4603],
           grad_fn=<Unique2Backward0>)
2861
2862 masks_dr unique: tensor([-7.6047, -7.5986, -7.5799, ..., 11.4540, 11.4571, 11.4603],
           grad_fn=<Unique2Backward0>)
2863
2864 Epoch 20/499: 88%| | | 140/160 [22:23<03:11, 9.60s/it]print_dice: 0.
                       print_iou: 0.42854803800582886
    5999770760536194,
2865 masks dr unique: tensor([-7.3011, -7.2988, -7.2756, ..., 11.4260, 11.4262, 11.4309],
           grad_fn=<Unique2Backward0>)
2867 masks_dr unique: tensor([-7.3011, -7.2988, -7.2756, ..., 11.4260, 11.4262, 11.4309],
2868
           grad_fn=<Unique2Backward0>)
2869 Epoch 20/499: 88% | 141/160 [22:32<03:01, 9.58s/it]print_dice: 0.
    5448981523513794, print_iou: 0.37447425723075867
2870 masks dr unique: tensor([-7.6025, -7.5963, -7.5777, ..., 11.4484, 11.4515, 11.4546],
2871
           grad fn=<Unique2Backward0>)
2872 masks dr unique: tensor([-7.6025, -7.5963, -7.5777, ..., 11.4484, 11.4515, 11.4546],
           grad fn=<Unique2Backward0>)
2874 Epoch 20/499: 89% | 142/160 [22:42<02:52, 9.59s/it]print_dice: 0.
    5235024094581604, print_iou: 0.3545568883419037
2875 masks_dr unique: tensor([-7.5509, -7.5252, -7.5222, ..., 11.8225, 11.8226, 11.8259],
           grad_fn=<Unique2Backward0>)
2876
2877 masks dr unique: tensor([-7.5509, -7.5252, -7.5222, ..., 11.8225, 11.8226, 11.8259],
           grad_fn=<Unique2Backward0>)
2879 Epoch 20/499: 89%| | | 143/160 [22:52<02:43, 9.62s/it]print_dice: 0.
    5594170093536377, print_iou: 0.3883267939090729
2880 masks_dr unique: tensor([-7.6029, -7.5968, -7.5781, ..., 11.4519, 11.4552, 11.4584],
2881
           grad_fn=<Unique2Backward0>)
2882 masks_dr unique: tensor([-7.6029, -7.5968, -7.5781, ..., 11.4519, 11.4552, 11.4584],
           grad_fn=<Unique2Backward0>)
2883
2884 print_dice: 0.469683974981308, print_iou: 0.3069196045398712
2885 Epoch 20/499: 90%| | 144/160 [23:01<02:33, 9.57s/it]masks_dr unique: tensor([-7.
    8169, -7.8161, -7.8071, ..., 12.1214, 12.1280, 12.1312],
2886
           grad_fn=<Unique2Backward0>)
2887 masks_dr unique: tensor([-7.8169, -7.8161, -7.8071, ..., 12.1214, 12.1280, 12.1312],
2888
           grad_fn=<Unique2Backward0>)
2889 Epoch 20/499: 91%| | 145/160 [23:11<02:23, 9.56s/it]print_dice: 0.
                      print_iou: 0.4062119424343109
    5777392983436584,
2890 masks_dr unique: tensor([-7.6032, -7.5971, -7.5786, ..., 11.4568, 11.4602, 11.4637],
           grad_fn=<Unique2Backward0>)
2891
2892 masks_dr unique: tensor([-7.6032, -7.5971, -7.5786, ..., 11.4568, 11.4602, 11.4637],
2893
           grad_fn=<Unique2Backward0>)
2894 Epoch 20/499: 91\%
    44837939739227295, print_iou: 0.28897491097450256
2895 masks_dr unique: tensor([-7.3133, -7.3129, -7.2918, ..., 11.5737, 11.5812, 11.5851],
           grad_fn=<Unique2Backward0>)
2896
2897 masks_dr unique: tensor([-7.3133, -7.3129, -7.2918, ..., 11.5737, 11.5812, 11.5851],
           grad_fn=<Unique2Backward0>)
2898
2899 Epoch 20/499: 92%
                               || 147/160 [23:30<02:05, 9.65s/it]print_dice: 0.
    5483230352401733, print_iou: 0.37771695852279663
2900 masks_dr unique: tensor([-7.6062, -7.6002, -7.5816, ..., 11.4626, 11.4661, 11.4696],
           grad fn=<Unique2Backward0>)
2902 masks_dr unique: tensor([-7.6062, -7.6002, -7.5816, ..., 11.4626, 11.4661, 11.4696],
           grad fn=<Unique2Backward0>)
2903
2904 Epoch 20/499: 92%| | | 148/160 [23:39<01:54, 9.56s/it]print_dice: 0.
    5528419017791748,
                       print_iou: 0.3820189833641052
2905 masks_dr unique: tensor([-7.6046, -7.5986, -7.5801, ..., 11.4584, 11.4615, 11.4646],
2906
           grad_fn=<Unique2Backward0>)
2907 masks_dr unique: tensor([-7.6046, -7.5986, -7.5801, ..., 11.4584, 11.4615, 11.4646],
2908
           grad fn=<Unique2Backward0>)
2909 print dice: 0.5458497405052185, print_iou: 0.3753737211227417
2910 Epoch 20/499: 93%| | 149/160 [23:49<01:44, 9.51s/it]masks_dr unique: tensor([-7.
```

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2910 6043, -7.5983, -7.5799, ..., 11.4589, 11.4623, 11.4656],
          grad_fn=<Unique2Backward0>)
2912 masks_dr unique: tensor([-7.6043, -7.5983, -7.5799, ..., 11.4589, 11.4623, 11.4656],
2913
          grad fn=<Unique2Backward0>)
2914 Epoch 20/499: 94%| 94%| 150/160 [23:58<01:35, 9.54s/it]print_dice: 0.522188663482666
       print iou: 0.35335272550582886
2915 masks_dr unique: tensor([-7.6680, -7.6534, -7.6534, ..., 12.7781, 12.7814, 12.7821],
          grad_fn=<Unique2Backward0>)
2917 masks_dr unique: tensor([-7.6680, -7.6534, -7.6534, ..., 12.7781, 12.7814, 12.7821],
2918
          grad fn=<Unique2Backward0>)
47245103120803833, print_iou: 0.3092869818210602
2920 masks_dr unique: tensor([-7.7413, -7.7293, -7.7191, ..., 12.2341, 12.2387, 12.2441],
          grad fn=<Unique2Backward0>)
2921
2922 masks_dr unique: tensor([-7.7413, -7.7293, -7.7191, ..., 12.2341, 12.2387, 12.2441],
          grad fn=<Unique2Backward0>)
2923
2924 print dice: 0.5011361241340637, print_iou: 0.3343439996242523
4266, -7.4256, -7.4218, ..., 11.9701, 11.9725, 11.9766],
2926
          grad_fn=<Unique2Backward0>)
2927 masks_dr unique: tensor([-7.4266, -7.4256, -7.4218, ..., 11.9701, 11.9725, 11.9766],
          grad_fn=<Unique2Backward0>)
2929 print dice: 0.6110633015632629, print iou: 0.43995043635368347
2930 Epoch 20/499: 96%| | 153/160 [24:27<01:07, 9.58s/it]masks_dr unique: tensor([-7.
    6939, -7.6885, -7.6744, ..., 12.8140, 12.8150, 12.8198],
2931
          grad_fn=<Unique2Backward0>)
2932 masks_dr unique: tensor([-7.6939, -7.6885, -7.6744, ..., 12.8140, 12.8150, 12.8198],
2933
          grad fn=<Unique2Backward0>)
5436294078826904,
                    print_iou: 0.37327679991722107
2935 masks dr unique: tensor([-7.6086, -7.6027, -7.5843, ..., 11.4677, 11.4714, 11.4750],
2936
          grad_fn=<Unique2Backward0>)
2937 masks_dr unique: tensor([-7.6086, -7.6027, -7.5843, ..., 11.4677, 11.4714, 11.4750],
2938
          grad_fn=<Unique2Backward0>)
2939 print_dice: 0.5532488226890564, print_iou: 0.3824077248573303
6074, -7.6014, -7.5831, ..., 11.4638, 11.4672, 11.4707],
2941
          grad_fn=<Unique2Backward0>)
2942 masks_dr unique: tensor([-7.6074, -7.6014, -7.5831, ..., 11.4638, 11.4672, 11.4707],
2943
          grad fn=<Unique2Backward0>)
2944 print dice: 0.46983641386032104,
                                  print iou: 0.30704978108406067
2945 Epoch 20/499: 98% 98% 156/160 [24:56<00:38, 9.67s/it]masks_dr unique: tensor([-7.
    8768, -7.8627, -7.8611, ..., 12.6006, 12.6024, 12.6031],
2946
          grad fn=<Unique2Backward0>)
2947 masks_dr unique: tensor([-7.8768, -7.8627, -7.8611, ..., 12.6006, 12.6024, 12.6031],
          grad_fn=<Unique2Backward0>)
2949 print_dice: 0.5126803517341614, print_iou: 0.3447008728981018
6263, -7.6139, -7.6084, ..., 12.5834, 12.5876, 12.5877],
2951
          grad_fn=<Unique2Backward0>)
2952 masks_dr unique: tensor([-7.6263, -7.6139, -7.6084, ..., 12.5834, 12.5876, 12.5877],
          grad fn=<Unique2Backward0>)
2953
2954 Epoch 20/499: 99% | 158/160 [25:16<00:19, 9.61s/it]print_dice: 0.
    5462336540222168, print_iou: 0.37573686242103577
2955 masks_dr unique: tensor([-7.3763, -7.3763, -7.3585, ..., 11.2035, 11.2087, 11.2095],
2956
          grad_fn=<Unique2Backward0>)
2957 masks_dr unique: tensor([-7.3763, -7.3763, -7.3585, ..., 11.2035, 11.2087, 11.2095],
2958
          grad_fn=<Unique2Backward0>)
                                 print_iou: 0.34540456533432007
2959 print_dice: 0.5134583115577698,
2960 Epoch 20/499: 99%| 159/160 [25:25<00:09, 9.59s/it]masks_dr unique: tensor([-7.
    5041, -7.4972, -7.4809, ..., 12.8451, 12.8451, 12.8493],
          grad fn=<Unique2Backward0>)
2961
2962 masks_dr unique: tensor([-7.5041, -7.4972, -7.4809, ..., 12.8451, 12.8451, 12.8493],
2963
          grad_fn=<Unique2Backward0>)
2964 print_dice: 0.5510224103927612,
                                print_iou: 0.3802835941314697
      [159/160] eta: 0:00:09
                            time: 9.5964 data: 0.0003
2965
                      | 160/160 [25:35<00:00, 9.60s/it]
2966 Epoch 20/499: 100%
2967 Total time: 0:25:35 (9.5986 s / it)
2968 Averaged stats: training_loss: 189.2399 (189.2399) loss_mask: 188.7355 (188.7355)
```

```
2968 loss dice: 0.5044 (0.5044)
2969 Net parameter norm: 1054.4225486785872
2970 Validating...
2971 Valid dataloader len: 12
2972
      0%|
                   | 0/12 [00:00<?, ?it/s]masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique
    sigmoid values: tensor([2.9833e-04, 3.3503e-04, 3.3847e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
2973
2974 masks_dr unique: tensor([5.7444e-04, 5.7705e-04, 5.8596e-04, ..., 9.9999e-01, 9.9999e-01,
2975
            9.9999e-01], grad_fn=<Unique2Backward0>)
2976 print dice: 0.5614219307899475, print iou: 0.390261709690094
                               time: 10.7351 data: 4.9031
      [ 0/12] eta: 0:02:08
2977
      8%|
                    | 1/12 [00:10<01:58, 10.74s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
2978
    ]) unique sigmoid values: tensor([2.9692e-04, 3.3508e-04, 3.3938e-04, ..., 9.9999e-01, 9.
    9999e-01,
             9.9999e-01], grad fn=<Unique2Backward0>)
2979
2980 masks_dr unique: tensor([5.7400e-04, 5.7659e-04, 5.8550e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
2982 print_dice: 0.6008260846138, print iou: 0.429414838552475
                    | 2/12 [00:16<01:18, 7.86s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.7890e-04, 4.1067e-04, 4.4487e-04, ..., 1.0000e+00, 1.
    0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
2984
2985 masks_dr unique: tensor([7.2992e-04, 7.3186e-04, 7.3550e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
2986
                    | 3/12 [00:22<01:01, 6.87s/it]print_dice: 0.5337165594100952, print_iou: 0.
2987 25%
     36399275064468384
2988 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([5.7167e-04, 5.
    8492e-04, 6.5894e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
2989
2990 masks dr unique: tensor([6.7935e-04, 6.9799e-04, 7.1097e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
2992 33%||
                    | 4/12 [00:28<00:52, 6.62s/it]print_dice: 0.5174854397773743, print_iou: 0.
    34905925393104553
2993 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.6389e-04, 2.
    7821e-04, 2.8346e-04, ..., 1.0000e+00, 1.0000e+00,
2994
            1.0000e+00], grad_fn=<Unique2Backward0>)
2995 masks_dr unique: tensor([4.4995e-04, 4.5348e-04, 4.5701e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
2997 print_dice: 0.5838753581047058, print_iou: 0.41230508685112
                   | 5/12 [00:34<00:44, 6.30s/it]masks dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.8302e-04, 4.0414e-04, 4.1364e-04, ..., 1.0000e+00, 1.
    0000e+00,
2999
             1.0000e+00], grad_fn=<Unique2Backward0>)
3000 masks_dr unique: tensor([6.2349e-04, 6.2835e-04, 6.3298e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
3001
3002 print_dice: 0.5115180015563965, print_iou: 0.343650758266449
                   6/12 [00:40<00:36, 6.14s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([2.7477e-04, 3.0284e-04, 3.1880e-04, ..., 9.9999e-01, 9.
    9999e-01,
3004
            9.9999e-01], grad_fn=<Unique2Backward0>)
3005 masks_dr unique: tensor([4.3226e-04, 4.3809e-04, 4.4037e-04, ..., 9.9999e-01, 9.9999e-01,
3006
            9.9999e-01], grad_fn=<Unique2Backward0>)
3007 print_dice: 0.4471357464790344, print_iou: 0.2879425883293152
                  | 7/12 [00:46<00:30, 6.16s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([2.9447e-04, 3.0088e-04, 3.4480e-04, ..., 9.9999e-01, 9.
    9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
3009
3010 masks_dr unique: tensor([6.3000e-04, 6.4766e-04, 6.6984e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
                  8/12 [00:52<00:24, 6.08s/it]print_dice: 0.5494807362556458, print_iou: 0.
3012 67%
    3788165748119354
3013 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.8494e-04, 4.
    8769e-04, 4.8904e-04, ..., 1.0000e+00, 1.0000e+00,
3014
             1.0000e+00], grad_fn=<Unique2Backward0>)
3015 masks_dr unique: tensor([6.5675e-04, 6.6172e-04, 6.6581e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
3016
                    | 9/12 [00:58<00:18, 6.20s/it]print_dice: 0.5628158450126648, print_iou: 0.
3017 75%|
    39161014556884766
3018 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.9676e-04, 3.
```

```
3018 3521e-04, 3.4014e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
3020 masks dr unique: tensor([5.7446e-04, 5.7706e-04, 5.8598e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
3021
          | 10/12 [01:04<00:12, 6.01s/it]print_dice: 0.5797744393348694, print_iou: 0
3022 83%
    .40822702646255493
3023 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.7727e-04, 2.
    7836e-04, 2.7945e-04, ..., 9.9999e-01, 9.9999e-01,
3024
            1.0000e+00], grad_fn=<Unique2Backward0>)
3025 masks_dr unique: tensor([4.7005e-04, 4.8637e-04, 5.0533e-04, ..., 9.9999e-01, 9.9999e-01,
3026
            9.9999e-01], grad fn=<Unique2Backward0>)
                  | | 11/12 [01:09<00:05, 5.89s/it]print dice: 0.622215986251831, print iou: 0.
3027 92%
    4516063332557678
3028 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.9610e-04, 3.
    3487e-04, 3.4185e-04, ..., 9.9999e-01, 9.9999e-01,
3029
            9.9999e-01], grad_fn=<Unique2Backward0>)
3030 masks_dr unique: tensor([5.7432e-04, 5.7693e-04, 5.8584e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
3031
3032 100%
                   || 12/12 [01:15<00:00, 5.82s/it]print_dice: 0.5854853391647339, print_iou: 0
    .4139125347137451
                              time: 6.2931 data: 0.4091
3033
     [11/12] eta: 0:00:06
          12/12 [01:15<00:00, 6.33s/it]
3034 100%
3035 Total time: 0:01:15 (6.3296 s / it)
3036 ============
3037 Averaged stats:
3038 epoch:
                   learning rate:
              21
                                   1e-07
3039 Epoch 21/499: 0%
                                | 0/160 [00:00<?, ?it/s]masks_dr unique: tensor([-7.4189, -7.
    3963, -7.3907, ..., 12.1018, 12.1039, 12.1071],
           grad fn=<Unique2Backward0>)
3040
3041 masks dr unique: tensor([-7.4189, -7.3963, -7.3907, ..., 12.1018, 12.1039, 12.1071],
           grad_fn=<Unique2Backward0>)
3043 Epoch 21/499: 1%
                                 1/160 [00:13<37:04, 13.99s/it]print_dice: 0.5318329334259033
        print_iou: 0.36224281787872314
     [ 0/160] eta: 0:37:18
                              time: 13.9883 data: 4.2377
3045 masks dr unique: tensor([-7.7405, -7.7337, -7.7096, ..., 11.8204, 11.8249, 11.8300],
           grad_fn=<Unique2Backward0>)
3047 masks_dr unique: tensor([-7.7405, -7.7337, -7.7096, ..., 11.8204, 11.8249, 11.8300],
           grad_fn=<Unique2Backward0>)
3048
3049 print_dice: 0.5253775119781494, print_iou: 0.3562793433666229
                    1%|| 2/160 [00:23<30:03, 11.41s/it]masks_dr unique: tensor([-7.
3050 Epoch 21/499:
    5105, -7.4897, -7.4885, ..., 11.8456, 11.8532, 11.8570],
3051
           grad_fn=<Unique2Backward0>)
3052 masks_dr unique: tensor([-7.5105, -7.4897, -7.4885, ..., 11.8456, 11.8532, 11.8570],
           grad_fn=<Unique2Backward0>)
                                 3/160 [00:32<27:27, 10.49s/it]print_dice: 0.5417795777320862
3054 Epoch 21/499:
                    2%||
        print_iou: 0.3715347647666931
3055 masks_dr unique: tensor([-7.6083, -7.6023, -7.5841, ..., 11.4694, 11.4727, 11.4760],
3056
           grad_fn=<Unique2Backward0>)
3057 masks_dr unique: tensor([-7.6083, -7.6023, -7.5841, ..., 11.4694, 11.4727, 11.4760],
           grad_fn=<Unique2Backward0>)
3059 print_dice: 0.5213199853897095, print_iou: 0.3525576889514923
3060 Epoch 21/499: 2%
                                 4/160 [00:42<26:23, 10.15s/it]masks_dr unique: tensor([-7.
    6078, -7.6018, -7.5836, ..., 11.4698, 11.4731, 11.4763],
           grad fn=<Unique2Backward0>)
3061
3062 masks_dr unique: tensor([-7.6078, -7.6018, -7.5836, ..., 11.4698, 11.4731, 11.4763],
3063
           grad_fn=<Unique2Backward0>)
                    3%|
3064 Epoch 21/499:
                                 | 5/160 [00:52<25:44, 9.96s/it]print_dice: 0.5550528168678284
        print_iou: 0.38413360714912415
3065 masks_dr unique: tensor([-7.6093, -7.6033, -7.5850, ..., 11.4728, 11.4761, 11.4794],
           grad fn=<Unique2Backward0>)
3066
3067 masks_dr unique: tensor([-7.6093, -7.6033, -7.5850, ..., 11.4728, 11.4761, 11.4794],
           grad_fn=<Unique2Backward0>)
3068
3069 print dice: 0.5724948644638062,
                                      print_iou: 0.4010457396507263
3070 Epoch 21/499:
                    4%
                                 | 6/160 [01:01<25:16, 9.85s/it]masks_dr unique: tensor([-7.
    6088, -7.6028, -7.5845, ..., 11.4751, 11.4785, 11.4819],
           grad fn=<Unique2Backward0>)
3071
3072 masks_dr unique: tensor([-7.6088, -7.6028, -7.5845, ..., 11.4751, 11.4785, 11.4819],
           grad fn=<Unique2Backward0>)
3073
3074 Epoch 21/499:
                    4%
                                 7/160 [01:11<24:41, 9.68s/it]print dice: 0.5671249628067017
```

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print iou: 0.3957951068878174
3075 masks_dr unique: tensor([-7.7487, -7.7403, -7.7393, ..., 11.6470, 11.6499, 11.6536],
           grad_fn=<Unique2Backward0>)
3077 masks_dr unique: tensor([-7.7487, -7.7403, -7.7393, ..., 11.6470, 11.6499, 11.6536],
           grad fn=<Unique2Backward0>)
3079 print_dice: 0.48569774627685547,
                                      print_iou: 0.320740282535553
3080 Epoch 21/499:
                    5%|
                           | 8/160 [01:20<24:23, 9.63s/it]masks_dr unique: tensor([-7.
    6074, -7.6013, -7.5830, ..., 11.4744, 11.4776, 11.4809],
3081
           grad_fn=<Unique2Backward0>)
3082 masks_dr unique: tensor([-7.6074, -7.6013, -7.5830, ..., 11.4744, 11.4776, 11.4809],
           grad_fn=<Unique2Backward0>)
3084 print dice: 0.5911937952041626, print iou: 0.4196416437625885
                          | 9/160 [01:30<24:05, 9.57s/it]masks_dr unique: tensor([-7.
3085 Epoch 21/499: 6%|
    6903, -7.6744, -7.6744, ..., 12.7394, 12.7429, 12.7432],
3086
           grad_fn=<Unique2Backward0>)
3087 masks_dr unique: tensor([-7.6903, -7.6744, -7.6744, ..., 12.7394, 12.7429, 12.7432],
           grad fn=<Unique2Backward0>)
3089 print_dice: 0.5057862401008606, print_iou: 0.3384965658187866
3090 Epoch 21/499: 6%|■
                                | 10/160 [01:39<24:05, 9.64s/it]masks_dr unique: tensor([-7.
    6067, -7.6007, -7.5825, ..., 11.4719, 11.4751, 11.4783],
           grad_fn=<Unique2Backward0>)
3091
3092 masks_dr unique: tensor([-7.6067, -7.6007, -7.5825, ..., 11.4719, 11.4751, 11.4783],
3093
           grad fn=<Unique2Backward0>)
3094 print_dice: 0.5794748067855835, print_iou: 0.4079299569129944
3095 Epoch 21/499: 7%|■
                          | 11/160 [01:49<24:02, 9.68s/it]masks_dr unique: tensor([-7.
    5668, -7.5597, -7.5547, ..., 12.4739, 12.4762, 12.4763],
3096
           grad fn=<Unique2Backward0>)
3097 masks_dr unique: tensor([-7.5668, -7.5597, -7.5547, ..., 12.4739, 12.4762, 12.4763],
           grad_fn=<Unique2Backward0>)
3098
                                | 12/160 [01:59<23:50, 9.67s/it]print_dice: 0.5485321283340454
3099 Epoch 21/499:
                   8%
        print_iou: 0.3779154419898987
3100 masks_dr unique: tensor([-7.5577, -7.5486, -7.5336, ..., 11.6646, 11.6671, 11.6677],
           grad_fn=<Unique2Backward0>)
3102 masks_dr unique: tensor([-7.5577, -7.5486, -7.5336, ..., 11.6646, 11.6671, 11.6677],
3103
           grad_fn=<Unique2Backward0>)
3104 print_dice: 0.5456002354621887, print_iou: 0.3751377463340759
                   8%|■ | 13/160 [02:08<23:31, 9.60s/it]masks_dr unique: tensor([-7.
3105 Epoch 21/499:
    5097, -7.4963, -7.4890, ..., 11.9399, 11.9427, 11.9471],
3106
           grad_fn=<Unique2Backward0>)
3107 masks_dr unique: tensor([-7.5097, -7.4963, -7.4890, ..., 11.9399, 11.9427, 11.9471],
3108
           grad fn=<Unique2Backward0>)
3109 print_dice: 0.4434317648410797, print_iou: 0.28487780690193176
6041, -7.5981, -7.5799, ..., 11.4703, 11.4734, 11.4765],
3111
           grad_fn=<Unique2Backward0>)
3112 masks_dr unique: tensor([-7.6041, -7.5981, -7.5799, ..., 11.4703, 11.4734, 11.4765],
           grad_fn=<Unique2Backward0>)
                                | 15/160 [02:28<23:14, 9.62s/it]print_dice: 0.4804835617542267
3114 Epoch 21/499:
                   9%|
        print_iou: 0.31620821356773376
3115 masks_dr unique: tensor([-7.6064, -7.6004, -7.5822, ..., 11.4733, 11.4767, 11.4801],
           grad_fn=<Unique2Backward0>)
3116
3117 masks dr unique: tensor([-7.6064, -7.6004, -7.5822, ..., 11.4733, 11.4767, 11.4801],
           grad_fn=<Unique2Backward0>)
3118
3119 Epoch 21/499: 10%
                                | 16/160 [02:37<23:01, 9.60s/it]print_dice: 0.527942419052124
        print_iou: 0.35864248871803284
3120 masks_dr unique: tensor([-7.6063, -7.6003, -7.5822, ..., 11.4745, 11.4780, 11.4816],
           grad_fn=<Unique2Backward0>)
3121
3122 masks_dr unique: tensor([-7.6063, -7.6003, -7.5822, ..., 11.4745, 11.4780, 11.4816],
           grad fn=<Unique2Backward0>)
                                | 17/160 [02:47<22:48, 9.57s/it]print_dice: 0.5419099926948547
3124 Epoch 21/499: 11%
        print iou: 0.37165743112564087
3125 masks_dr unique: tensor([-7.5747, -7.5719, -7.5701, ..., 12.7615, 12.7643, 12.7654],
           grad_fn=<Unique2Backward0>)
3126
3127 masks_dr unique: tensor([-7.5747, -7.5719, -7.5701, ..., 12.7615, 12.7643, 12.7654],
3128
           grad_fn=<Unique2Backward0>)
                                | 18/160 [02:56<22:35, 9.54s/it]print dice: 0.560825765132904
3129 Epoch 21/499: 11%
        print_iou: 0.3896857798099518
3130 masks_dr unique: tensor([-7.4342, -7.4321, -7.4208, ..., 12.8738, 12.8742, 12.8779],
           grad fn=<Unique2Backward0>)
3131
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3132 masks_dr unique: tensor([-7.4342, -7.4321, -7.4208, ..., 12.8738, 12.8742, 12.8779],
           grad fn=<Unique2Backward0>)
3134 Epoch 21/499: 12%
                                 | 19/160 [03:06<22:36, 9.62s/it]print dice: 0.5590153336524963
        print_iou: 0.38793981075286865
3135 masks dr unique: tensor([-7.7775, -7.7649, -7.7607, ..., 12.6723, 12.6733, 12.6756],
           grad_fn=<Unique2Backward0>)
3137 masks_dr unique: tensor([-7.7775, -7.7649, -7.7607, ..., 12.6723, 12.6733, 12.6756],
           grad_fn=<Unique2Backward0>)
3138
3139 Epoch 21/499: 12%
                                20/160 [03:15<22:22, 9.59s/it]print_dice: 0.6028165221214294
        print iou: 0.4314512014389038
3140 masks_dr unique: tensor([-7.8183, -7.8101, -7.8083, ..., 12.0205, 12.0282, 12.0315],
           grad_fn=<Unique2Backward0>)
3142 masks_dr unique: tensor([-7.8183, -7.8101, -7.8083, ..., 12.0205, 12.0282, 12.0315],
           grad fn=<Unique2Backward0>)
                                21/160 [03:25<22:15, 9.61s/it]print_dice: 0.4652542173862457
3144 Epoch 21/499: 13%
        print_iou: 0.30314740538597107
3145 masks_dr unique: tensor([-7.7218, -7.7216, -7.7166, ..., 12.5394, 12.5409, 12.5419],
           grad_fn=<Unique2Backward0>)
3147 masks_dr unique: tensor([-7.7218, -7.7216, -7.7166, ..., 12.5394, 12.5409, 12.5419],
           grad_fn=<Unique2Backward0>)
3149 print_dice: 0.5064524412155151, print_iou: 0.3390935957431793
3150 Epoch 21/499: 14%|■
                             | 22/160 [03:35<22:01, 9.58s/it]masks_dr unique: tensor([-7.
    5215, -7.5162, -7.5063, ..., 12.8386, 12.8394, 12.8405],
3151
           grad_fn=<Unique2Backward0>)
3152 masks_dr unique: tensor([-7.5215, -7.5162, -7.5063, ..., 12.8386, 12.8394, 12.8405],
3153
           grad_fn=<Unique2Backward0>)
3154 print dice: 0.5461934208869934, print iou: 0.37569886445999146
4488, -7.4227, -7.4180, ..., 11.9028, 11.9049, 11.9108],
3156
           grad fn=<Unique2Backward0>)
3157 masks_dr unique: tensor([-7.4488, -7.4227, -7.4180, ..., 11.9028, 11.9049, 11.9108],
3158
           grad_fn=<Unique2Backward0>)
3159 print_dice: 0.5620784759521484, print_iou: 0.3908964991569519
3160 Epoch 21/499: 15\% | 24/160 [03:54<21:55, 9.67s/it]masks_dr unique: tensor([-7.
    5955, -7.5899, -7.5881, ..., 11.4436, 11.4448, 11.4449],
3161
           grad_fn=<Unique2Backward0>)
3162 masks_dr unique: tensor([-7.5955, -7.5899, -7.5881, ..., 11.4436, 11.4448, 11.4449],
           grad_fn=<Unique2Backward0>)
3163
                                25/160 [04:04<21:46, 9.68s/it]print_dice: 0.5526143312454224
3164 Epoch 21/499: 16%
        print iou: 0.3818017542362213
3165 masks_dr unique: tensor([-7.4226, -7.4069, -7.4056, ..., 12.5597, 12.5626, 12.5634],
           grad_fn=<Unique2Backward0>)
3167 masks_dr unique: tensor([-7.4226, -7.4069, -7.4056, ..., 12.5597, 12.5626, 12.5634],
           grad_fn=<Unique2Backward0>)
                                26/160 [04:13<21:31, 9.64s/it]print_dice: 0.6443982720375061
3169 Epoch 21/499: 16%
        print_iou: 0.47535961866378784
3170 masks_dr unique: tensor([-7.6083, -7.6022, -7.5839, ..., 11.4696, 11.4728, 11.4759],
3171
           grad_fn=<Unique2Backward0>)
3172 masks_dr unique: tensor([-7.6083, -7.6022, -7.5839, ..., 11.4696, 11.4728, 11.4759],
           grad fn=<Unique2Backward0>)
3174 print dice: 0.43128612637519836,
                                      print_iou: 0.2749297618865967
3175 Epoch 21/499: 17%
                                | 27/160 [04:23<21:24, 9.66s/it]masks_dr unique: tensor([-7.
    6077, -7.6016, -7.5832, ..., 11.4694, 11.4725, 11.4756],
3176
           grad_fn=<Unique2Backward0>)
3177 masks_dr unique: tensor([-7.6077, -7.6016, -7.5832, ..., 11.4694, 11.4725, 11.4756],
3178
           grad_fn=<Unique2Backward0>)
3179 print_dice: 0.4773584008216858, print_iou: 0.31350675225257874
3180 Epoch 21/499: 18%|■■
                                | 28/160 [04:33<21:13, 9.65s/it]masks_dr unique: tensor([-7.
    5127, -7.5005, -7.4819, ..., 11.4284, 11.4337, 11.4353],
3181
           grad_fn=<Unique2Backward0>)
3182 masks_dr unique: tensor([-7.5127, -7.5005, -7.4819, ..., 11.4284, 11.4337, 11.4353],
3183
           grad_fn=<Unique2Backward0>)
3184 print dice: 0.5070047974586487,
                                    print_iou: 0.33958905935287476
3185 Epoch 21/499: 18%
                                 29/160 [04:42<20:59, 9.62s/it]masks_dr unique: tensor([-7.
    6105, -7.6043, -7.5858, ..., 11.4755, 11.4789, 11.4822],
3186
           grad_fn=<Unique2Backward0>)
3187 masks_dr unique: tensor([-7.6105, -7.6043, -7.5858, ..., 11.4755, 11.4789, 11.4822],
           grad_fn=<Unique2Backward0>)
3188
3189 print dice: 0.590360164642334,
                                    print iou: 0.4188021123409271
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3190 Epoch 21/499: 19%
    6084, -7.6022, -7.5838, ..., 11.4748, 11.4781, 11.4813],
           grad fn=<Unique2Backward0>)
3192 masks dr unique: tensor([-7.6084, -7.6022, -7.5838, ..., 11.4748, 11.4781, 11.4813],
           grad_fn=<Unique2Backward0>)
3194 print_dice: 0.48402291536331177, print_iou: 0.3192811608314514
3195 Epoch 21/499: 19% ■ 31/160 [05:01<20:32, 9.56s/it]masks_dr unique: tensor([-7.
    5533, -7.5358, -7.5110, ..., 12.7084, 12.7101, 12.7112],
3196
           grad_fn=<Unique2Backward0>)
3197 masks_dr unique: tensor([-7.5533, -7.5358, -7.5110, ..., 12.7084, 12.7101, 12.7112],
           grad_fn=<Unique2Backward0>)
3199 print_dice: 0.5425755977630615, print_iou: 0.3722838759422302
3200 Epoch 21/499: 20% 32/160 [05:11<20:21, 9.55s/it]masks_dr unique: tensor([-7.
    8014, -7.7985, -7.7856, ..., 12.8299, 12.8308, 12.8346],
3201
           grad_fn=<Unique2Backward0>)
3202 masks_dr unique: tensor([-7.8014, -7.7985, -7.7856, ..., 12.8299, 12.8308, 12.8346],
           grad_fn=<Unique2Backward0>)
3204 Epoch 21/499: 21%
                               33/160 [05:20<20:18, 9.59s/it]print_dice: 0.5808266401290894
        print_iou: 0.40927112102508545
3205 masks_dr unique: tensor([-7.6112, -7.6049, -7.5863, ..., 11.4724, 11.4758, 11.4791],
           grad_fn=<Unique2Backward0>)
3206
3207 masks_dr unique: tensor([-7.6112, -7.6049, -7.5863, ..., 11.4724, 11.4758, 11.4791],
           grad fn=<Unique2Backward0>)
3208
                               | 34/160 [05:30<20:11, 9.62s/it]print_dice: 0.5208410024642944
3209 Epoch 21/499: 21%
        print iou: 0.35211971402168274
3210 masks_dr unique: tensor([-7.6029, -7.5905, -7.5752, ..., 11.5346, 11.5364, 11.5428],
           grad_fn=<Unique2Backward0>)
3212 masks dr unique: tensor([-7.6029, -7.5905, -7.5752, ..., 11.5346, 11.5364, 11.5428],
           grad_fn=<Unique2Backward0>)
3213
3214 print_dice: 0.5136804580688477, print_iou: 0.3456057012081146
3215 Epoch 21/499: 22%
    4393, -7.4209, -7.4137, ..., 11.5826, 11.5861, 11.5895],
3216
           grad_fn=<Unique2Backward0>)
3217 masks_dr unique: tensor([-7.4393, -7.4209, -7.4137, ..., 11.5826, 11.5861, 11.5895],
3218
           grad_fn=<Unique2Backward0>)
3219 print_dice: 0.46659132838249207, print_iou: 0.3042837381362915
3220 Epoch 21/499: 22%
    6099, -7.6035, -7.5847, ..., 11.4748, 11.4780, 11.4813],
3221
           grad_fn=<Unique2Backward0>)
3222 masks_dr unique: tensor([-7.6099, -7.6035, -7.5847, ..., 11.4748, 11.4780, 11.4813],
3223
           grad_fn=<Unique2Backward0>)
                               37/160 [05:59<19:38, 9.58s/it]print_dice: 0.4469195604324341
3224 Epoch 21/499: 23%
        print_iou: 0.2877632975578308
3225 masks_dr unique: tensor([-7.6116, -7.6051, -7.5863, ..., 11.4752, 11.4785, 11.4818],
3226
           grad_fn=<Unique2Backward0>)
3227 masks_dr unique: tensor([-7.6116, -7.6051, -7.5863, ..., 11.4752, 11.4785, 11.4818],
           grad_fn=<Unique2Backward0>)
                               | 38/160 [06:09<19:32, 9.61s/it]print_dice: 0.5283281803131104
3229 Epoch 21/499: 24%
        print_iou: 0.3589986264705658
3230 masks_dr unique: tensor([-7.4618, -7.4475, -7.4471, ..., 12.8234, 12.8250, 12.8273],
3231
           grad_fn=<Unique2Backward0>)
3232 masks_dr unique: tensor([-7.4618, -7.4475, -7.4471, ..., 12.8234, 12.8250, 12.8273],
3233
           grad fn=<Unique2Backward0>)
3234 print_dice: 0.48394113779067993,
                                     print_iou: 0.3192099928855896
3235 Epoch 21/499: 24%| 39/160 [06:18<19:25, 9.63s/it]masks_dr unique: tensor([-7.
    2803, -7.2678, -7.2645, ..., 12.0379, 12.0426, 12.0461],
           grad_fn=<Unique2Backward0>)
3236
3237 masks_dr unique: tensor([-7.2803, -7.2678, -7.2645, ..., 12.0379, 12.0426, 12.0461],
           grad fn=<Unique2Backward0>)
3238
                               | 40/160 [06:28<19:09, 9.58s/it]print_dice: 0.5601718425750732
3239 Epoch 21/499: 25%
        print_iou: 0.38905462622642517
3240 masks_dr unique: tensor([-7.3675, -7.3645, -7.3531, ..., 12.8297, 12.8312, 12.8315],
           grad fn=<Unique2Backward0>)
3241
3242 masks_dr unique: tensor([-7.3675, -7.3645, -7.3531, ..., 12.8297, 12.8312, 12.8315],
           grad fn=<Unique2Backward0>)
3243
                               41/160 [06:37<18:59, 9.57s/it]print dice: 0.6167510151863098
3244 Epoch 21/499: 26%
        print iou: 0.4458712935447693
3245 masks_dr unique: tensor([-7.4097, -7.4034, -7.3922, ..., 12.9044, 12.9046, 12.9075],
3246
           grad fn=<Unique2Backward0>)
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3247 masks_dr unique: tensor([-7.4097, -7.4034, -7.3922, ..., 12.9044, 12.9046, 12.9075],
           grad fn=<Unique2Backward0>)
3249 Epoch 21/499: 26%
                                42/160 [06:47<18:51, 9.59s/it]print dice: 0.5754440426826477
        print_iou: 0.4039462208747864
3250 masks_dr unique: tensor([-7.3783, -7.3536, -7.3513, ..., 11.4716, 11.4755, 11.4773],
           grad_fn=<Unique2Backward0>)
3252 masks_dr unique: tensor([-7.3783, -7.3536, -7.3513, ..., 11.4716, 11.4755, 11.4773],
           grad_fn=<Unique2Backward0>)
3253
3254 Epoch 21/499: 27%
                                43/160 [06:56<18:40, 9.57s/it]print_dice: 0.5433549284934998
        print iou: 0.3730180561542511
3255 masks_dr unique: tensor([-7.6150, -7.6085, -7.5896, ..., 11.4803, 11.4835, 11.4868],
           grad_fn=<Unique2Backward0>)
3257 masks_dr unique: tensor([-7.6150, -7.6085, -7.5896, ..., 11.4803, 11.4835, 11.4868],
           grad fn=<Unique2Backward0>)
3259 print_dice: 0.5575664639472961, print_iou: 0.38654568791389465
3260 Epoch 21/499: 28%
    6150, -7.6085, -7.5895, ..., 11.4799, 11.4835, 11.4870],
           grad_fn=<Unique2Backward0>)
3261
3262 masks_dr unique: tensor([-7.6150, -7.6085, -7.5895, ..., 11.4799, 11.4835, 11.4870],
           grad fn=<Unique2Backward0>)
3264 Epoch 21/499: 28%
                             45/160 [07:16<18:20, 9.57s/it]print_dice: 0.558468759059906
        print_iou: 0.38741356134414673
3265 masks_dr unique: tensor([-7.7061, -7.6894, -7.6860, ..., 11.9157, 11.9225, 11.9269],
3266
           grad fn=<Unique2Backward0>)
3267 masks dr unique: tensor([-7.7061, -7.6894, -7.6860, ..., 11.9157, 11.9225, 11.9269],
           grad fn=<Unique2Backward0>)
3268
3269 print dice: 0.509972870349884, print iou: 0.34225746989250183
3270 Epoch 21/499: 29% 46/160 [07:25<18:02, 9.49s/it] masks_dr unique: tensor([-7.
    6125, -7.6058, -7.5869, ..., 11.4824, 11.4859, 11.4894],
           grad fn=<Unique2Backward0>)
3271
3272 masks_dr unique: tensor([-7.6125, -7.6058, -7.5869, ..., 11.4824, 11.4859, 11.4894],
3273
           grad fn=<Unique2Backward0>)
3274 print_dice: 0.5363364815711975, print_iou: 0.3664343059062958
3275 Epoch 21/499: 29% 47/160 [07:35<17:59, 9.55s/it] masks_dr unique: tensor([-7.
    6110, -7.6045, -7.5855, ..., 11.4848, 11.4885, 11.4923],
3276
           grad_fn=<Unique2Backward0>)
3277 masks_dr unique: tensor([-7.6110, -7.6045, -7.5855, ..., 11.4848, 11.4885, 11.4923],
           grad_fn=<Unique2Backward0>)
3278
                                48/160 [07:44<17:52, 9.57s/it]print_dice: 0.5074380040168762
3279 Epoch 21/499: 30%
        print iou: 0.33997786045074463
3280 masks_dr unique: tensor([-7.6111, -7.6045, -7.5856, ..., 11.4817, 11.4851, 11.4885],
           grad_fn=<Unique2Backward0>)
3282 masks_dr unique: tensor([-7.6111, -7.6045, -7.5856, ..., 11.4817, 11.4851, 11.4885],
           grad fn=<Unique2Backward0>)
3284 print_dice: 0.5219240188598633, print_iou: 0.3531104028224945
3285 Epoch 21/499: 31% 49/160 [07:54<17:45, 9.60s/it]masks_dr unique: tensor([-7.
    7820, -7.7713, -7.7\overline{598}, \ldots, 11.7968, 11.8060, 11.8071],
3286
           grad_fn=<Unique2Backward0>)
3287 masks_dr unique: tensor([-7.7820, -7.7713, -7.7598, ..., 11.7968, 11.8060, 11.8071],
           grad fn=<Unique2Backward0>)
3289 print_dice: 0.5738720893859863, print_iou: 0.4023987352848053
3290 Epoch 21/499: 31% 50/160 [08:03<17:31, 9.56s/it]masks_dr unique: tensor([-7.
    5541, -7.5443, -7.5341, ..., 11.9447, 11.9499, 11.9554],
           grad fn=<Unique2Backward0>)
3291
3292 masks_dr unique: tensor([-7.5541, -7.5443, -7.5341, ..., 11.9447, 11.9499, 11.9554],
           grad_fn=<Unique2Backward0>)
3293
3294 Epoch 21/499: 32%
                                | 51/160 [08:13<17:17, 9.52s/it]print_dice: 0.6163105964660645
        print iou: 0.4454110860824585
3295 masks_dr unique: tensor([-7.6930, -7.6871, -7.6837, ..., 12.6225, 12.6255, 12.6259],
3296
           grad fn=<Unique2Backward0>)
3297 masks_dr unique: tensor([-7.6930, -7.6871, -7.6837, ..., 12.6225, 12.6255, 12.6259],
           grad_fn=<Unique2Backward0>)
3298
3299 print dice: 0.5408185124397278, print iou: 0.3706313967704773
3300 Epoch 21/499: 32%
                                | 52/160 [08:23<17:16, 9.60s/it]masks dr unique: tensor([-7.
    5849, -7.5700, -7.5468, ..., 12.8229, 12.8245, 12.8254],
           grad fn=<Unique2Backward0>)
3301
3302 masks_dr unique: tensor([-7.5849, -7.5700, -7.5468, ..., 12.8229, 12.8245, 12.8254],
           grad_fn=<Unique2Backward0>)
3303
3304 Epoch 21/499: 33%
                                53/160 [08:32<17:06, 9.60s/it]print dice: 0.5336016416549683
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print iou: 0.36388587951660156
3305 masks_dr unique: tensor([-7.5728, -7.5627, -7.5500, ..., 11.9998, 12.0072, 12.0101],
           grad_fn=<Unique2Backward0>)
3307 masks_dr unique: tensor([-7.5728, -7.5627, -7.5500, ..., 11.9998, 12.0072, 12.0101],
           grad_fn=<Unique2Backward0>)
3309 print_dice: 0.5082594752311707, print_iou: 0.3407157361507416
3310 Epoch 21/499: 34%| 54/160 [08:42<17:01, 9.63s/it]masks_dr unique: tensor([-7.
    8236, -7.8087, -7.8017, ..., 12.7718, 12.7751, 12.7758],
3311
           grad_fn=<Unique2Backward0>)
3312 masks_dr unique: tensor([-7.8236, -7.8087, -7.8017, ..., 12.7718, 12.7751, 12.7758],
3313
           grad fn=<Unique2Backward0>)
3314 Epoch 21/499: 34%
                                | 55/160 [08:51<16:52, 9.64s/it]print_dice: 0.5910605192184448
        print_iou: 0.41950738430023193
3315 masks dr unique: tensor([-7.3512, -7.3399, -7.3349, ..., 11.5977, 11.6015, 11.6048],
3316
           grad_fn=<Unique2Backward0>)
3317 masks_dr unique: tensor([-7.3512, -7.3399, -7.3349, ..., 11.5977, 11.6015, 11.6048],
           grad_fn=<Unique2Backward0>)
3319 Epoch 21/499: 35%
                                56/160 [09:01<16:43, 9.65s/it]print_dice: 0.
    49554869532585144, print_iou: 0.3293883204460144
3320 masks_dr unique: tensor([-7.6058, -7.5992, -7.5804, ..., 11.4830, 11.4867, 11.4905],
           grad_fn=<Unique2Backward0>)
3321
3322 masks_dr unique: tensor([-7.6058, -7.5992, -7.5804, ..., 11.4830, 11.4867, 11.4905],
3323
           grad fn=<Unique2Backward0>)
3324 print_dice: 0.5395699143409729, print_iou: 0.3694596290588379
3325 Epoch 21/499: 36%
    6042, -7.5976, -7.5788, ..., 11.4851, 11.4887, 11.4923],
3326
           grad_fn=<Unique2Backward0>)
3327 masks_dr unique: tensor([-7.6042, -7.5976, -7.5788, ..., 11.4851, 11.4887, 11.4923],
           grad_fn=<Unique2Backward0>)
3328
                                | 58/160 [09:20<16:23, 9.64s/it]print_dice: 0.5114245414733887
3329 Epoch 21/499: 36%
        print_iou: 0.3435663878917694
3330 masks_dr unique: tensor([-7.4327, -7.4285, -7.4245, ..., 12.6637, 12.6670, 12.6675],
           grad_fn=<Unique2Backward0>)
3332 masks_dr unique: tensor([-7.4327, -7.4285, -7.4245, ..., 12.6637, 12.6670, 12.6675],
3333
           grad fn=<Unique2Backward0>)
3334 Epoch 21/499: 37%
                                | 59/160 [09:30<16:13, 9.64s/it]print_dice: 0.5483098030090332
        print_iou: 0.3777044415473938
3335 masks_dr unique: tensor([-7.6029, -7.5962, -7.5773, ..., 11.4862, 11.4899, 11.4936],
3336
           grad_fn=<Unique2Backward0>)
3337 masks_dr unique: tensor([-7.6029, -7.5962, -7.5773, ..., 11.4862, 11.4899, 11.4936],
           grad_fn=<Unique2Backward0>)
3338
                                60/160 [09:40<16:04, 9.65s/it]print_dice: 0.5159797072410583
3339 Epoch 21/499: 38%
        print_iou: 0.3476904630661011
3340 masks_dr unique: tensor([-7.7992, -7.7886, -7.7812, ..., 12.7575, 12.7593, 12.7602],
3341
           grad_fn=<Unique2Backward0>)
3342 masks_dr unique: tensor([-7.7992, -7.7886, -7.7812, ..., 12.7575, 12.7593, 12.7602],
           grad_fn=<Unique2Backward0>)
3344 Epoch 21/499: 38%
                                61/160 [09:49<15:54, 9.64s/it]print_dice: 0.536399781703949
        print_iou: 0.3664933741092682
3345 masks_dr unique: tensor([-7.6016, -7.5949, -7.5759, ..., 11.4867, 11.4903, 11.4942],
3346
           grad_fn=<Unique2Backward0>)
3347 masks_dr unique: tensor([-7.6016, -7.5949, -7.5759, ..., 11.4867, 11.4903, 11.4942],
3348
           grad fn=<Unique2Backward0>)
3349 Epoch 21/499: 39%
                                62/160 [09:59<15:48, 9.67s/it]print_dice: 0.5140522122383118
        print_iou: 0.34594231843948364
3350 masks_dr unique: tensor([-7.4916, -7.4911, -7.4743, ..., 11.4942, 11.4946, 11.4946],
           grad_fn=<Unique2Backward0>)
3351
3352 masks_dr unique: tensor([-7.4916, -7.4911, -7.4743, ..., 11.4942, 11.4946, 11.4946],
           grad_fn=<Unique2Backward0>)
                                     print_iou: 0.3715175688266754
3354 print_dice: 0.5417612791061401,
3355 Epoch 21/499: 39%
                                63/160 [10:09<15:32, 9.61s/it]masks_dr unique: tensor([-7.
    4904, -7.4698, -7.4645, ..., 11.2805, 11.2856, 11.2909],
           grad_fn=<Unique2Backward0>)
3356
3357 masks_dr unique: tensor([-7.4904, -7.4698, -7.4645, ..., 11.2805, 11.2856, 11.2909],
           grad fn=<Unique2Backward0>)
3358
3359 Epoch 21/499: 40%
                                 64/160 [10:18<15:20, 9.59s/it]print_dice: 0.5635408163070679
        print iou: 0.3923124670982361
3360 masks_dr unique: tensor([-7.3667, -7.3493, -7.3455, ..., 12.5707, 12.5728, 12.5739],
           grad fn=<Unique2Backward0>)
3361
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3362 masks dr unique: tensor([-7.3667, -7.3493, -7.3455, ..., 12.5707, 12.5728, 12.5739],
           grad fn=<Unique2Backward0>)
3364 Epoch 21/499: 41%
                                | 65/160 [10:28<15:07, 9.55s/it]print dice: 0.
    47555574774742126, print_iou: 0.31195351481437683
3365 masks_dr unique: tensor([-7.5970, -7.5901, -7.5711, ..., 11.4856, 11.4892, 11.4928],
3366
           grad_fn=<Unique2Backward0>)
3367 masks_dr unique: tensor([-7.5970, -7.5901, -7.5711, ..., 11.4856, 11.4892, 11.4928],
           grad_fn=<Unique2Backward0>)
3368
3369 Epoch 21/499: 41%
                                66/160 [10:37<14:59, 9.57s/it]print_dice: 0.5088633894920349
        print iou: 0.341258704662323
3370 masks_dr unique: tensor([-7.3327, -7.3274, -7.3116, ..., 11.8382, 11.8397, 11.8400],
           grad fn=<Unique2Backward0>)
3371
3372 masks_dr unique: tensor([-7.3327, -7.3274, -7.3116, ..., 11.8382, 11.8397, 11.8400],
           grad fn=<Unique2Backward0>)
                                67/160 [10:47<14:55, 9.62s/it]print_dice: 0.5150627493858337
3374 Epoch 21/499: 42%
        print iou: 0.34685826301574707
3375 masks_dr unique: tensor([-7.5965, -7.5895, -7.5705, ..., 11.4857, 11.4892, 11.4926],
           grad_fn=<Unique2Backward0>)
3377 masks_dr unique: tensor([-7.5965, -7.5895, -7.5705, ..., 11.4857, 11.4892, 11.4926],
           grad_fn=<Unique2Backward0>)
                                68/160 [10:57<14:47, 9.64s/it]print_dice: 0.5200657844543457
3379 Epoch 21/499: 42%
        print_iou: 0.3514114320278168
3380 masks_dr unique: tensor([-7.8226, -7.8023, -7.7981, ..., 12.0152, 12.0197, 12.0230],
           grad_fn=<Unique2Backward0>)
3382 masks_dr unique: tensor([-7.8226, -7.8023, -7.7981, ..., 12.0152, 12.0197, 12.0230],
3383
           grad fn=<Unique2Backward0>)
3384 Epoch 21/499: 43%
                                | 69/160 [11:06<14:33, 9.60s/it]print_dice: 0.
    48819050192832947, print_iou: 0.32291799783706665
3385 masks dr unique: tensor([-7.4086, -7.4056, -7.3981, ..., 11.9749, 11.9768, 11.9794],
           grad_fn=<Unique2Backward0>)
3386
3387 masks_dr unique: tensor([-7.4086, -7.4056, -7.3981, ..., 11.9749, 11.9768, 11.9794],
3388
           grad_fn=<Unique2Backward0>)
3389 print_dice: 0.5162715911865234, print_iou: 0.347955584526062
3390 Epoch 21/499: 44%
    5966, -7.5895, -7.5703, ..., 11.4852, 11.4886, 11.4920],
3391
           grad_fn=<Unique2Backward0>)
3392 masks_dr unique: tensor([-7.5966, -7.5895, -7.5703, ..., 11.4852, 11.4886, 11.4920],
           grad_fn=<Unique2Backward0>)
3394 print_dice: 0.516093373298645, print_iou: 0.34779369831085205
                             | 71/160 [11:25<14:11, 9.57s/it]masks_dr unique: tensor([-7.
3395 Epoch 21/499: 44%
    8472, -7.8441, -7.8312, ..., 12.2319, 12.2335, 12.2336],
3396
           grad_fn=<Unique2Backward0>)
3397 masks_dr unique: tensor([-7.8472, -7.8441, -7.8312, ..., 12.2319, 12.2335, 12.2336],
           grad_fn=<Unique2Backward0>)
3399 Epoch 21/499: 45%
                                72/160 [11:35<14:08, 9.64s/it]print_dice: 0.
    49933144450187683, print_iou: 0.33273935317993164
3400 masks_dr unique: tensor([-7.2141, -7.1987, -7.1934, ..., 12.5201, 12.5211, 12.5221],
3401
           grad_fn=<Unique2Backward0>)
3402 masks_dr unique: tensor([-7.2141, -7.1987, -7.1934, ..., 12.5201, 12.5211, 12.5221],
           grad_fn=<Unique2Backward0>)
3404 Epoch 21/499: 46%
                                73/160 [11:45<13:59, 9.65s/it]print_dice: 0.
    48704949021339417, print_iou: 0.3219203054904938
3405 masks_dr unique: tensor([-7.3331, -7.3262, -7.3169, ..., 12.9167, 12.9168, 12.9176],
3406
           grad_fn=<Unique2Backward0>)
3407 masks_dr unique: tensor([-7.3331, -7.3262, -7.3169, ..., 12.9167, 12.9168, 12.9176],
           grad_fn=<Unique2Backward0>)
3408
3409 Epoch 21/499: 46%
                                | 74/160 [11:54<13:46, 9.60s/it]print_dice: 0.4571194052696228
        print_iou: 0.29627659916877747
3410 masks_dr unique: tensor([-7.3781, -7.3765, -7.3641, ..., 12.8266, 12.8283, 12.8292],
           grad fn=<Unique2Backward0>)
3411
3412 masks_dr unique: tensor([-7.3781, -7.3765, -7.3641, ..., 12.8266, 12.8283, 12.8292],
           grad fn=<Unique2Backward0>)
3413
3414 print_dice: 0.5594063401222229, print_iou: 0.3883165121078491
3415 Epoch 21/499: 47%
                                | 75/160 [12:04<13:37, 9.61s/it]masks_dr unique: tensor([-7.
    6894, -7.6786, -7.6677, ..., 12.2070, 12.2143, 12.2180],
3416
           grad_fn=<Unique2Backward0>)
3417 masks dr unique: tensor([-7.6894, -7.6786, -7.6677, ..., 12.2070, 12.2143, 12.2180],
3418
           grad fn=<Unique2Backward0>)
                                | 76/160 [12:13<13:29, 9.64s/it]print_dice: 0.5633319020271301
3419 Epoch 21/499: 48%
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print iou: 0.3921099603176117
3420 masks_dr unique: tensor([-7.5988, -7.5916, -7.5722, ..., 11.4843, 11.4873, 11.4903],
           grad_fn=<Unique2Backward0>)
3422 masks_dr unique: tensor([-7.5988, -7.5916, -7.5722, ..., 11.4843, 11.4873, 11.4903],
           grad_fn=<Unique2Backward0>)
3424 Epoch 21/499: 48%
                                | 77/160 [12:23<13:22, 9.66s/it]print_dice: 0.5317251086235046
        print_iou: 0.36214274168014526
3425 masks_dr unique: tensor([-7.4056, -7.4042, -7.3964, ..., 10.9679, 10.9701, 10.9740],
           grad_fn=<Unique2Backward0>)
3427 masks_dr unique: tensor([-7.4056, -7.4042, -7.3964, ..., 10.9679, 10.9701, 10.9740],
           grad fn=<Unique2Backward0>)
3428
3429 Epoch 21/499: 49%
                                 78/160 [12:33<13:08, 9.62s/it]print_dice: 0.
    48885849118232727, print_iou: 0.323502779006958
3430 masks_dr unique: tensor([-7.5103, -7.5017, -7.4882, ..., 12.8671, 12.8679, 12.8683],
           grad fn=<Unique2Backward0>)
3431
3432 masks_dr unique: tensor([-7.5103, -7.5017, -7.4882, ..., 12.8671, 12.8679, 12.8683],
           grad_fn=<Unique2Backward0>)
3434 Epoch 21/499: 49%
                                 79/160 [12:42<13:01, 9.64s/it]print_dice: 0.5502606630325317
        print_iou: 0.37955835461616516
3435 masks_dr unique: tensor([-7.5842, -7.5712, -7.5675, ..., 12.7312, 12.7332, 12.7346],
           grad_fn=<Unique2Backward0>)
3436
3437 masks_dr unique: tensor([-7.5842, -7.5712, -7.5675, ..., 12.7312, 12.7332, 12.7346],
3438
           grad fn=<Unique2Backward0>)
3439 Epoch 21/499: 50%
                                80/160 [12:52<12:52, 9.65s/it]print_dice: 0.5759813189506531
        print_iou: 0.4044759273529053
3440 masks_dr unique: tensor([-7.7960, -7.7803, -7.7724, ..., 12.2254, 12.2325, 12.2365],
           grad_fn=<Unique2Backward0>)
3442 masks_dr unique: tensor([-7.7960, -7.7803, -7.7724, ..., 12.2254, 12.2325, 12.2365],
           grad_fn=<Unique2Backward0>)
3443
                                 | 81/160 [13:02<12:43, 9.67s/it]print_dice: 0.5635915398597717
3444 Epoch 21/499: 51%
        print_iou: 0.3923616111278534
3445 masks_dr unique: tensor([-7.1186, -7.0969, -7.0904, ..., 11.2693, 11.2700, 11.2731],
           grad_fn=<Unique2Backward0>)
3447 masks_dr unique: tensor([-7.1186, -7.0969, -7.0904, ..., 11.2693, 11.2700, 11.2731],
3448
           grad_fn=<Unique2Backward0>)
3449 print_dice: 0.5563634634017944, print_iou: 0.3853902518749237
3450 Epoch 21/499: 51% | 82/160 [13:11<12:26, 9.57s/it]masks_dr unique: tensor([-7.
    5999, -7.5928, -7.5737, ..., 11.4891, 11.4922, 11.4953],
3451
           grad_fn=<Unique2Backward0>)
3452 masks_dr unique: tensor([-7.5999, -7.5928, -7.5737, ..., 11.4891, 11.4922, 11.4953],
3453
           grad_fn=<Unique2Backward0>)
3454 print_dice: 0.5018337368965149, print_iou: 0.334965318441391
3455 Epoch 21/499: 52%| | 83/160 [13:21<12:15, 9.55s/it]masks_dr unique: tensor([-7.
    6219, -7.6058, -7.5863, ..., 12.7824, 12.7843, 12.7855],
3456
           grad_fn=<Unique2Backward0>)
3457 masks_dr unique: tensor([-7.6219, -7.6058, -7.5863, ..., 12.7824, 12.7843, 12.7855],
           grad_fn=<Unique2Backward0>)
                                 84/160 [13:30<12:02, 9.51s/it]print_dice: 0.546684205532074
3459 Epoch 21/499: 52%| 3459
        print_iou: 0.37616339325904846
3460 masks_dr unique: tensor([-7.6021, -7.5950, -7.5760, ..., 11.4861, 11.4889, 11.4916],
3461
           grad_fn=<Unique2Backward0>)
3462 masks_dr unique: tensor([-7.6021, -7.5950, -7.5760, ..., 11.4861, 11.4889, 11.4916],
           grad fn=<Unique2Backward0>)
3463
3464 print dice: 0.5679885745048523, print iou: 0.3966369032859802
3465 Epoch 21/499: 53%| | 85/160 [13:40<11:56, 9.55s/it]masks_dr unique: tensor([-7.
    5643, -7.5464, -7.5399, ..., 11.7496, 11.7526, 11.7577],
           grad_fn=<Unique2Backward0>)
3466
3467 masks_dr unique: tensor([-7.5643, -7.5464, -7.5399, ..., 11.7496, 11.7526, 11.7577],
           grad_fn=<Unique2Backward0>)
3469 print_dice: 0.5160354971885681,
                                      print_iou: 0.34774115681648254
3470 Epoch 21/499: 54%
                                 86/160 [13:49<11:48, 9.57s/it]masks_dr unique: tensor([-7.
    6023, -7.5955, -7.5767, ..., 11.4839, 11.4866, 11.4892],
3471
           grad_fn=<Unique2Backward0>)
3472 masks dr unique: tensor([-7.6023, -7.5955, -7.5767, ..., 11.4839, 11.4866, 11.4892],
           grad fn=<Unique2Backward0>)
3473
3474 Epoch 21/499: 54%
                                 87/160 [13:59<11:41, 9.60s/it]print dice: 0.
                         print_iou: 0.32454419136047363
    49004659056663513,
3475 masks dr unique: tensor([-7.0574, -7.0496, -7.0364, ..., 12.1006, 12.1024, 12.1024],
           grad fn=<Unique2Backward0>)
3476
```

```
3477 masks_dr unique: tensor([-7.0574, -7.0496, -7.0364, ..., 12.1006, 12.1024, 12.1024],
           grad_fn=<Unique2Backward0>)
3479 print dice: 0.6115531325340271, print iou: 0.4404584467411041
3480 Epoch 21/499: 55%| | 88/160 [14:08<11:28, 9.56s/it]masks_dr unique: tensor([-7.
    4537, -7.4521, -7.4412, ..., 12.8509, 12.8521, 12.8523],
3481
           grad_fn=<Unique2Backward0>)
3482 masks_dr unique: tensor([-7.4537, -7.4521, -7.4412, ..., 12.8509, 12.8521, 12.8523],
           grad_fn=<Unique2Backward0>)
3483
3484 print_dice: 0.5237139463424683, print_iou: 0.35475099086761475
3485 Epoch 21/499: 56%| | 89/160 [14:18<11:20, 9.58s/it]masks_dr unique: tensor([-7.
    5995, -7.5867, -7.5805, ..., 12.0549, 12.0608, 12.0655],
3486
           grad_fn=<Unique2Backward0>)
3487 masks dr unique: tensor([-7.5995, -7.5867, -7.5805, ..., 12.0549, 12.0608, 12.0655],
           grad fn=<Unique2Backward0>)
3489 Epoch 21/499: 56%
                                 90/160 [14:28<11:09, 9.57s/it]print_dice: 0.5977142453193665
        print_iou: 0.4262428283691406
3490 masks_dr unique: tensor([-7.7681, -7.7621, -7.7603, ..., 12.8145, 12.8168, 12.8176],
           grad_fn=<Unique2Backward0>)
3492 masks_dr unique: tensor([-7.7681, -7.7621, -7.7603, ..., 12.8145, 12.8168, 12.8176],
           grad_fn=<Unique2Backward0>)
3494 Epoch 21/499: 57% 91/160 [14:37<11:03, 9.61s/it]print_dice: 0.5996398329734802
        print_iou: 0.4282039999961853
3495 masks dr unique: tensor([-7.6040, -7.5971, -7.5782, ..., 11.4872, 11.4899, 11.4926],
           grad_fn=<Unique2Backward0>)
3497 masks dr unique: tensor([-7.6040, -7.5971, -7.5782, ..., 11.4872, 11.4899, 11.4926],
           grad_fn=<Unique2Backward0>)
3498
3499 Epoch 21/499: 57%
                                 92/160 [14:47<10:50, 9.57s/it]print_dice: 0.5041166543960571
        print iou: 0.33700263500213623
3500 masks dr unique: tensor([-7.1066, -7.1030, -7.0942, ..., 11.7249, 11.7257, 11.7259],
           grad_fn=<Unique2Backward0>)
3502 masks_dr unique: tensor([-7.1066, -7.1030, -7.0942, ..., 11.7249, 11.7257, 11.7259],
3503
           grad_fn=<Unique2Backward0>)
3504 Epoch 21/499: 58%
                                 93/160 [14:56<10:40, 9.56s/it]print_dice: 0.5168246030807495
        print_iou: 0.3484581708908081
3505 masks dr unique: tensor([-7.8852, -7.8680, -7.8679, ..., 12.9014, 12.9044, 12.9048],
           grad_fn=<Unique2Backward0>)
3507 masks_dr unique: tensor([-7.8852, -7.8680, -7.8679, ..., 12.9014, 12.9044, 12.9048],
           grad_fn=<Unique2Backward0>)
3508
3509 Epoch 21/499: 59% 94/160 [15:06<10:39, 9.69s/it]print_dice: 0.5838286280632019
        print iou: 0.41225847601890564
3510 masks_dr unique: tensor([-7.6053, -7.5982, -7.5791, ..., 11.4869, 11.4895, 11.4920],
           grad_fn=<Unique2Backward0>)
3512 masks_dr unique: tensor([-7.6053, -7.5982, -7.5791, ..., 11.4869, 11.4895, 11.4920],
           grad_fn=<Unique2Backward0>)
3514 Epoch 21/499: 59%| 95/160 [15:16<10:31, 9.72s/it]print_dice: 0.602756679058075
        print_iou: 0.4313898980617523
3515 masks_dr unique: tensor([-7.6018, -7.5948, -7.5759, ..., 11.4861, 11.4886, 11.4912],
3516
           grad_fn=<Unique2Backward0>)
3517 masks_dr unique: tensor([-7.6018, -7.5948, -7.5759, ..., 11.4861, 11.4886, 11.4912],
3518
           grad_fn=<Unique2Backward0>)
                                 96/160 [15:26<10:20, 9.70s/it]print dice: 0.5352245569229126
3519 Epoch 21/499: 60%
        print_iou: 0.36539700627326965
3520 masks_dr unique: tensor([-7.6002, -7.5932, -7.5742, ..., 11.4887, 11.4913, 11.4940],
3521
           grad_fn=<Unique2Backward0>)
3522 masks_dr unique: tensor([-7.6002, -7.5932, -7.5742, ..., 11.4887, 11.4913, 11.4940],
3523
           grad_fn=<Unique2Backward0>)
3524 print_dice: 0.46615085005760193, print_iou: 0.30390918254852295
3525 Epoch 21/499: 61%
                               97/160 [15:35<10:08, 9.66s/it]masks_dr unique: tensor([-7.
    6410, -7.6278, -7.6214, ..., 12.9606, 12.9633, 12.9636],
3526
           grad_fn=<Unique2Backward0>)
3527 masks_dr unique: tensor([-7.6410, -7.6278, -7.6214, ..., 12.9606, 12.9633, 12.9636],
3528
           grad_fn=<Unique2Backward0>)
                                    print iou: 0.37463000416755676
3529 print_dice: 0.5450630187988281,
3530 Epoch 21/499: 61%
                                98/160 [15:45<09:59, 9.67s/it]masks_dr unique: tensor([-7.
    1521, -7.1311, -7.1267, ..., 11.4961, 11.5001, 11.5008],
3531
           grad_fn=<Unique2Backward0>)
3532 masks_dr unique: tensor([-7.1521, -7.1311, -7.1267, ..., 11.4961, 11.5001, 11.5008],
3533
           grad fn=<Unique2Backward0>)
                                 99/160 [15:55<09:52, 9.72s/it]print_dice: 0.4517368674278259
3534 Epoch 21/499: 62%
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print iou: 0.2917701005935669
3535 masks_dr unique: tensor([-7.6356, -7.6284, -7.6175, ..., 11.8757, 11.8764, 11.8775],
           grad_fn=<Unique2Backward0>)
3537 masks_dr unique: tensor([-7.6356, -7.6284, -7.6175, ..., 11.8757, 11.8764, 11.8775],
           grad fn=<Unique2Backward0>)
3539 print_dice: 0.5206430554389954, print_iou: 0.35193878412246704
3540 Epoch 21/499: 62%| | 100/160 [16:04<09:41, 9.69s/it]masks_dr unique: tensor([-7.
    6019, -7.5947, -7.5755, ..., 11.4884, 11.4910, 11.4936],
3541
           grad_fn=<Unique2Backward0>)
3542 masks_dr unique: tensor([-7.6019, -7.5947, -7.5755, ..., 11.4884, 11.4910, 11.4936],
3543
           grad_fn=<Unique2Backward0>)
3544 Epoch 21/499: 63%
                                 | 101/160 [16:14<09:28, 9.63s/it]print_dice: 0.
    49135059118270874, print iou: 0.32568904757499695
      [100/160] eta: 0:09:38 time: 9.6111 data: 0.0002
3545
3546 masks_dr unique: tensor([-7.6018, -7.5946, -7.5755, ..., 11.4861, 11.4889, 11.4916],
3547
           grad_fn=<Unique2Backward0>)
3548 masks_dr unique: tensor([-7.6018, -7.5946, -7.5755, ..., 11.4861, 11.4889, 11.4916],
3549
           grad_fn=<Unique2Backward0>)
3550 print_dice: 0.5066797733306885, print_iou: 0.33929744362831116
3551 Epoch 21/499: 64%| | 102/160 [16:23<09:16, 9.59s/it]masks_dr unique: tensor([-7.
    9595, -7.9391, -7.9315, ..., 12.3296, 12.3361, 12.3407],
3552
           grad_fn=<Unique2Backward0>)
3553 masks dr unique: tensor([-7.9595, -7.9391, -7.9315, ..., 12.3296, 12.3361, 12.3407],
           grad fn=<Unique2Backward0>)
3554
3555 Epoch 21/499: 64%
                                | 103/160 [16:33<09:07, 9.60s/it]print_dice: 0.
    5418097972869873, print_iou: 0.371563196182251
3556 masks_dr unique: tensor([-7.6040, -7.5968, -7.5775, ..., 11.4907, 11.4935, 11.4963],
           grad_fn=<Unique2Backward0>)
3557
3558 masks_dr unique: tensor([-7.6040, -7.5968, -7.5775, ..., 11.4907, 11.4935, 11.4963],
           grad fn=<Unique2Backward0>)
3559
3560 Epoch 21/499: 65%
                                | 104/160 [16:43<08:58, 9.61s/it]print_dice: 0.
    5499932169914246, print_iou: 0.379303902387619
3561 masks_dr unique: tensor([-7.6029, -7.5956, -7.5763, ..., 11.4904, 11.4930, 11.4956],
3562
           grad_fn=<Unique2Backward0>)
3563 masks dr unique: tensor([-7.6029, -7.5956, -7.5763, ..., 11.4904, 11.4930, 11.4956],
           grad_fn=<Unique2Backward0>)
3565 print dice: 0.47978833317756653,
                                      print_iou: 0.3156062662601471
3566 Epoch 21/499: 66% 105/160 [16:53<08:51, 9.66s/it]masks_dr unique: tensor([-7.
    8594, -7.8483, -7.8476, ..., 11.7716, 11.7746, 11.7747],
           grad fn=<Unique2Backward0>)
3567
3568 masks_dr unique: tensor([-7.8594, -7.8483, -7.8476, ..., 11.7716, 11.7746, 11.7747],
3569
           grad_fn=<Unique2Backward0>)
3570 Epoch 21/499: 66% | 106/160 [17:02<08:40, 9.64s/it]print_dice: 0.
    47456076741218567, print_iou: 0.31109780073165894
3571 masks_dr unique: tensor([-7.7884, -7.7865, -7.7731, ..., 12.8495, 12.8514, 12.8531],
3572
           grad_fn=<Unique2Backward0>)
3573 masks_dr unique: tensor([-7.7884, -7.7865, -7.7731, ..., 12.8495, 12.8514, 12.8531],
           grad fn=<Unique2Backward0>)
3574
3575 Epoch 21/499: 67%| | 107/160 [17:12<08:27, 9.58s/it]print_dice: 0.538960874080658
        print iou: 0.3688887059688568
3576 masks_dr unique: tensor([-7.8118, -7.7992, -7.7892, ..., 12.7431, 12.7456, 12.7466],
3577
           grad fn=<Unique2Backward0>)
3578 masks_dr unique: tensor([-7.8118, -7.7992, -7.7892, ..., 12.7431, 12.7456, 12.7466],
           grad_fn=<Unique2Backward0>)
3579
3580 print_dice: 0.5232043862342834, print_iou: 0.35428354144096375
3581 Epoch 21/499: 68%| | 108/160 [17:21<08:20, 9.62s/it]masks_dr unique: tensor([-7.
    6058, -7.5984, -7.5789, ..., 11.4896, 11.4922, 11.4947],
3582
           grad_fn=<Unique2Backward0>)
3583 masks dr unique: tensor([-7.6058, -7.5984, -7.5789, ..., 11.4896, 11.4922, 11.4947],
3584
           grad fn=<Unique2Backward0>)
3585 print_dice: 0.43846818804740906,
                                    print_iou: 0.2807936370372772
3586 Epoch 21/499: 68%| | 109/160 [17:31<08:12, 9.66s/it]masks_dr unique: tensor([-7.
    5549, -7.5505, -7.5375, ..., 12.6859, 12.6873, 12.6874],
3587
           grad_fn=<Unique2Backward0>)
3588 masks dr unique: tensor([-7.5549, -7.5505, -7.5375, ..., 12.6859, 12.6873, 12.6874],
           grad fn=<Unique2Backward0>)
3589
3590 Epoch 21/499: 69% | 110/160 [17:41<08:03, 9.66s/it]print dice: 0.
    5386319160461426,
                       print_iou: 0.36858057975769043
3591 masks_dr unique: tensor([-7.6079, -7.6006, -7.5813, ..., 11.4937, 11.4962, 11.4987],
```

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grad fn=<Unique2Backward0>)
3593 masks_dr unique: tensor([-7.6079, -7.6006, -7.5813, ..., 11.4937, 11.4962, 11.4987],
           grad fn=<Unique2Backward0>)
3595 Epoch 21/499: 69% | 111/160 [17:50<07:51, 9.63s/it]print dice: 0.
    5586657524108887, print_iou: 0.38760319352149963
3596 masks_dr unique: tensor([-7.6084, -7.6011, -7.5816, ..., 11.4886, 11.4913, 11.4940],
           grad_fn=<Unique2Backward0>)
3598 masks_dr unique: tensor([-7.6084, -7.6011, -7.5816, ..., 11.4886, 11.4913, 11.4940],
           grad_fn=<Unique2Backward0>)
3600 Epoch 21/499: 70%
                                | 112/160 [18:00<07:41, 9.61s/it]print dice: 0.
    45319318771362305, print iou: 0.29298630356788635
3601 masks_dr unique: tensor([-7.6072, -7.5999, -7.5805, ..., 11.4970, 11.4997, 11.5024],
           grad fn=<Unique2Backward0>)
3602
3603 masks_dr unique: tensor([-7.6072, -7.5999, -7.5805, ..., 11.4970, 11.4997, 11.5024],
3604
           grad fn=<Unique2Backward0>)
3605 print dice: 0.5015196800231934, print iou: 0.3346855640411377
3606 Epoch 21/499: 71%| | 113/160 [18:09<07:30, 9.59s/it]masks_dr unique: tensor([-7.
    6079, -7.6006, -7.5812, ..., 11.4941, 11.4966, 11.4991],
3607
           grad_fn=<Unique2Backward0>)
3608 masks_dr unique: tensor([-7.6079, -7.6006, -7.5812, ..., 11.4941, 11.4966, 11.4991],
           grad_fn=<Unique2Backward0>)
3609
3610 print_dice: 0.538465678691864, print_iou: 0.3684249520301819
3611 Epoch 21/499: 71%| | 114/160 [18:19<07:23, 9.63s/it]masks dr unique: tensor([-7.
    8083, -7.7962, -7.7909, ..., 12.7090, 12.7103, 12.7120],
           grad_fn=<Unique2Backward0>)
3612
3613 masks_dr unique: tensor([-7.8083, -7.7962, -7.7909, ..., 12.7090, 12.7103, 12.7120],
3614
           grad fn=<Unique2Backward0>)
3615 Epoch 21/499: 72\%
    6064969897270203, print_iou: 0.43523189425468445
3616 masks dr unique: tensor([-7.4160, -7.3978, -7.3926, ..., 11.5944, 11.5953, 11.5996],
           grad_fn=<Unique2Backward0>)
3618 masks_dr unique: tensor([-7.4160, -7.3978, -7.3926, ..., 11.5944, 11.5953, 11.5996],
           grad_fn=<Unique2Backward0>)
3620 print_dice: 0.4879949688911438, print_iou: 0.3227469325065613
3621 Epoch 21/499: 72%| 120 | 116/160 [18:38<07:02, 9.61s/it]masks_dr unique: tensor([-7.
    6114, -7.6041, -7.5848, ..., 11.4936, 11.4961, 11.4986],
           grad fn=<Unique2Backward0>)
3622
3623 masks dr unique: tensor([-7.6114, -7.6041, -7.5848, ..., 11.4936, 11.4961, 11.4986],
           grad_fn=<Unique2Backward0>)
3625 print_dice: 0.5454747080802917, print_iou: 0.3750190734863281
3626 Epoch 21/499: 73%| | 117/160 [18:48<06:55, 9.66s/it]masks_dr unique: tensor([-7.
    6127, -7.6055, -7.5862, ..., 11.4985, 11.5011, 11.5038],
           grad_fn=<Unique2Backward0>)
3628 masks_dr unique: tensor([-7.6127, -7.6055, -7.5862, ..., 11.4985, 11.5011, 11.5038],
3629
           grad_fn=<Unique2Backward0>)
3630 Epoch 21/499: 74% | 118/160 [18:58<06:47, 9.69s/it]print_dice: 0.
    5929428935050964, print_iou: 0.4214063882827759
3631 masks_dr unique: tensor([-7.6939, -7.6861, -7.6827, ..., 12.7031, 12.7046, 12.7053],
           grad fn=<Unique2Backward0>)
3632
3633 masks dr unique: tensor([-7.6939, -7.6861, -7.6827, ..., 12.7031, 12.7046, 12.7053],
3634
           grad fn=<Unique2Backward0>)
3635 print_dice: 0.541090190410614, print_iou: 0.3708866834640503
3636 Epoch 21/499: 74% | 119/160 [19:07<06:36, 9.68s/it]masks_dr unique: tensor([-7.
    7822, -7.7688, -7.7672, ..., 12.6758, 12.6761, 12.6766],
           grad_fn=<Unique2Backward0>)
3638 masks_dr unique: tensor([-7.7822, -7.7688, -7.7672, ..., 12.6758, 12.6761, 12.6766],
           grad fn=<Unique2Backward0>)
3639
                                     print_iou: 0.28204452991485596
3640 print dice: 0.4399917721748352,
3641 Epoch 21/499: 75%
                               | 120/160 [19:17<06:23, 9.59s/it]masks_dr unique: tensor([-7.
    6583, -7.6570, -7.6534, ..., 12.8497, 12.8530, 12.8536],
3642
           grad_fn=<Unique2Backward0>)
3643 masks_dr unique: tensor([-7.6583, -7.6570, -7.6534, ..., 12.8497, 12.8530, 12.8536],
3644
           grad_fn=<Unique2Backward0>)
3645 print dice: 0.49388739466667175, print iou: 0.32792195677757263
3646 Epoch 21/499: 76%| | 121/160 [19:26<06:11, 9.54s/it]masks_dr unique: tensor([-7.
    5889, -7.5782, -7.5735, ..., 12.7535, 12.7555, 12.7566],
3647
           grad fn=<Unique2Backward0>)
3648 masks_dr unique: tensor([-7.5889, -7.5782, -7.5735, ..., 12.7535, 12.7555, 12.7566],
3649
           grad fn=<Unique2Backward0>)
```

```
3650 Epoch 21/499: 76% | 122/160 [19:36<06:01, 9.52s/it]print dice: 0.505374014377594
            print_iou: 0.33812740445137024
3651 masks_dr unique: tensor([-7.6107, -7.6036, -7.5844, ..., 11.5010, 11.5036, 11.5063],
                grad fn=<Unique2Backward0>)
3653 masks_dr unique: tensor([-7.6107, -7.6036, -7.5844, ..., 11.5010, 11.5036, 11.5063],
                grad_fn=<Unique2Backward0>)
3655 Epoch 21/499: 77% ■ 10 | 123/160 [19:45<05:53, 9.57s/it]print_dice: 0.
                                 print_iou: 0.34343183040618896
       5112754106521606,
3656 masks_dr unique: tensor([-7.6106, -7.6035, -7.5843, ..., 11.5011, 11.5037, 11.5062],
                grad fn=<Unique2Backward0>)
3657
3658 masks_dr unique: tensor([-7.6106, -7.6035, -7.5843, ..., 11.5011, 11.5037, 11.5062],
                grad fn=<Unique2Backward0>)
3659
3660 print dice: 0.4817137122154236, print iou: 0.31727463006973267
3661 Epoch 21/499: 78%| | 124/160 [19:55<05:46, 9.63s/it]masks_dr unique: tensor([-7.
       6105, -7.6034, -7.5843, ..., 11.5004, 11.5030, 11.5055],
3662
                grad_fn=<Unique2Backward0>)
3663 masks_dr unique: tensor([-7.6105, -7.6034, -7.5843, ..., 11.5004, 11.5030, 11.5055],
                grad_fn=<Unique2Backward0>)
3665 print_dice: 0.42156729102134705, print_iou: 0.2670796811580658
3950, -7.3940, -7.3848, ..., 12.3740, 12.3761, 12.3769],
3667
                grad_fn=<Unique2Backward0>)
3668 masks_dr unique: tensor([-7.3950, -7.3940, -7.3848, ..., 12.3740, 12.3761, 12.3769],
3669
                grad_fn=<Unique2Backward0>)
3670 Epoch 21/499: 79% | 126/160 [20:14<05:25, 9.58s/it]print_dice: 0.
      4289485514163971, print_iou: 0.2730327844619751
3671 masks_dr unique: tensor([-7.6135, -7.6064, -7.5873, ..., 11.5032, 11.5058, 11.5084],
                grad_fn=<Unique2Backward0>)
3672
3673 masks dr unique: tensor([-7.6135, -7.6064, -7.5873, ..., 11.5032, 11.5058, 11.5084],
                grad_fn=<Unique2Backward0>)
3674
3675 print_dice: 0.5172646641731262, print iou: 0.34885841608047485
3676 Epoch 21/499: 79%| | | 127/160 [20:24<05:16, 9.60s/it]masks_dr unique: tensor([-7.
      9174, -7.9140, -7.9109, ..., 12.6283, 12.6296, 12.6306],
3677
                grad_fn=<Unique2Backward0>)
3678 masks dr unique: tensor([-7.9174, -7.9140, -7.9109, ..., 12.6283, 12.6296, 12.6306],
                grad_fn=<Unique2Backward0>)
3680 Epoch 21/499: 80% | 128/160 [20:33<05:07, 9.60s/it]print_dice: 0.
      5910136699676514, print_iou: 0.4194602072238922
3681 masks_dr unique: tensor([-7.6161, -7.6090, -7.5900, ..., 11.5069, 11.5095, 11.5120],
                grad fn=<Unique2Backward0>)
3682
3683 masks_dr unique: tensor([-7.6161, -7.6090, -7.5900, ..., 11.5069, 11.5095, 11.5120],
                grad_fn=<Unique2Backward0>)
3685 Epoch 21/499: 81% | 129/160 [20:43<04:56, 9.56s/it]print_dice: 0.
      5476206541061401, print_iou: 0.3770506978034973
3686 masks_dr unique: tensor([-7.6166, -7.6096, -7.5906, ..., 11.5072, 11.5099, 11.5125],
3687
                grad_fn=<Unique2Backward0>)
3688 masks_dr unique: tensor([-7.6166, -7.6096, -7.5906, ..., 11.5072, 11.5099, 11.5125],
                grad_fn=<Unique2Backward0>)
3689
3690 Epoch 21/499: 81% | 3690 | 130/160 [20:52<04:45, 9.51s/it]print_dice: 0.
      5106916427612305, print_iou: 0.3429052233695984
3691 masks_dr unique: tensor([-7.9210, -7.9184, -7.9165, ..., 12.8114, 12.8134, 12.8134],
                grad fn=<Unique2Backward0>)
3692
3693 masks_dr unique: tensor([-7.9210, -7.9184, -7.9165, ..., 12.8114, 12.8134, 12.8134],
3694
                grad_fn=<Unique2Backward0>)
3695 Epoch 21/499: 82% | 3695 Epoch 21/499: 82
       6054465174674988, print_iou: 0.4341507852077484
3696 masks_dr unique: tensor([-7.3351, -7.3281, -7.3212, ..., 12.1406, 12.1408, 12.1418],
                grad fn=<Unique2Backward0>)
3697
3698 masks_dr unique: tensor([-7.3351, -7.3281, -7.3212, ..., 12.1406, 12.1408, 12.1418],
3699
                grad fn=<Unique2Backward0>)
3700 Epoch 21/499: 82% | 32/160 [21:12<04:28, 9.57s/it]print_dice: 0.521898627281189
            print_iou: 0.3530871570110321
3701 masks_dr unique: tensor([-7.1878, -7.1865, -7.1827, ..., 12.6114, 12.6126, 12.6130],
                grad fn=<Unique2Backward0>)
3703 masks_dr unique: tensor([-7.1878, -7.1865, -7.1827, ..., 12.6114, 12.6126, 12.6130],
                grad_fn=<Unique2Backward0>)
3704
3705 print dice: 0.5110424757003784,
                                                     print_iou: 0.34322166442871094
                                   | 133/160 [21:21<04:19, 9.60s/it]masks_dr unique: tensor([-7.
3706 Epoch 21/499: 83%
       5951, -7.5654, -7.5651, ..., 11.7534, 11.7592, 11.7617],
```

```
grad fn=<Unique2Backward0>)
3708 masks_dr unique: tensor([-7.5951, -7.5654, -7.5651, ..., 11.7534, 11.7592, 11.7617],
            grad fn=<Unique2Backward0>)
3710 print dice: 0.48408982157707214,
                                        print iou: 0.319339394569397
3711 Epoch 21/499: 84%| 34 | 134/160 [21:31<04:07, 9.54s/it]masks_dr unique: tensor([-7.
    9636, -7.9542, -7.9440, ..., 12.9030, 12.9042, 12.9056],
            grad fn=<Unique2Backward0>)
3712
3713 masks_dr unique: tensor([-7.9636, -7.9542, -7.9440, ..., 12.9030, 12.9042, 12.9056],
            grad_fn=<Unique2Backward0>)
3715 Epoch 21/499: 84%| 34 | 135/160 [21:40<03:58, 9.56s/it]print_dice: 0.457370400428772
         print iou: 0.2964875102043152
3716 masks_dr unique: tensor([-7.9567, -7.9545, -7.9525, ..., 11.9174, 11.9183, 11.9196],
            grad fn=<Unique2Backward0>)
3717
3718 masks_dr unique: tensor([-7.9567, -7.9545, -7.9525, ..., 11.9174, 11.9183, 11.9196],
3719
            grad fn=<Unique2Backward0>)
3720 print_dice: 0.5326037406921387, print_iou: 0.3629583716392517
3721 Epoch 21/499: 85%| | 136/160 [21:50<03:51, 9.63s/it]masks_dr unique: tensor([-7.
    6207, -7.6139, -7.5952, ..., 11.5113, 11.5138, 11.5164],
3722
            grad_fn=<Unique2Backward0>)
3723 masks_dr unique: tensor([-7.6207, -7.6139, -7.5952, ..., 11.5113, 11.5138, 11.5164],
            grad_fn=<Unique2Backward0>)
3724
3725 Epoch 21/499: 86% | 137/160 [22:00<03:41, 9.65s/it]print_dice: 0.
    5636158585548401, print iou: 0.39238518476486206
3726 masks dr unique: tensor([-7.2564, -7.2467, -7.2346, ..., 11.4298, 11.4325, 11.4336],
            grad_fn=<Unique2Backward0>)
3727
3728 masks dr unique: tensor([-7.2564, -7.2467, -7.2346, ..., 11.4298, 11.4325, 11.4336],
            grad fn=<Unique2Backward0>)
3729
3730 Epoch 21/499: 86% | 138/160 [22:09<03:31, 9.59s/it]print_dice: 0.
     5047798752784729, print_iou: 0.33759570121765137
3731 masks_dr unique: tensor([-7.6201, -7.6134, -7.5948, ..., 11.5101, 11.5124, 11.5146],
            grad_fn=<Unique2Backward0>)
3733 masks dr unique: tensor([-7.6201, -7.6134, -7.5948, ..., 11.5101, 11.5124, 11.5146],
            grad_fn=<Unique2Backward0>)
3735 Epoch 21/499: 87% | 373542881012
         print_iou: 0.3511446416378021
3736 masks dr unique: tensor([-7.2894, -7.2870, -7.2597, ..., 11.3917, 11.3983, 11.4016],
3737
            grad_fn=<Unique2Backward0>)
3738 masks dr unique: tensor([-7.2894, -7.2870, -7.2597, ..., 11.3917, 11.3983, 11.4016],
            grad_fn=<Unique2Backward0>)
3740 print dice: 0.5939618349075317, print_iou: 0.42243650555610657
3741 Epoch 21/499: 88%| | | 140/160 [22:28<03:09, 9.47s/it]masks_dr unique: tensor([-7.
    6189, -7.6123, -7.5938, ..., 11.5101, 11.5126, 11.5150],
3742
            grad_fn=<Unique2Backward0>)
3743 masks_dr unique: tensor([-7.6189, -7.6123, -7.5938, ..., 11.5101, 11.5126, 11.5150],
3744
            grad_fn=<Unique2Backward0>)
3745 print_dice: 0.5019174218177795, print_iou: 0.3350399136543274
3746 Epoch 21/499: 88%| | | 141/160 [22:38<03:01, 9.53s/it]masks_dr unique: tensor([-7.
    5142, -7.5096, -7.4906, ..., 11.9432, 11.9437, 11.9464],
3747
            grad_fn=<Unique2Backward0>)
3748 masks dr unique: tensor([-7.5142, -7.5096, -7.4906, ..., 11.9432, 11.9437, 11.9464],
            grad fn=<Unique2Backward0>)
3749
3750 print_dice: 0.5662901401519775, print_iou: 0.39498236775398254
3751 Epoch 21/499: 89% | 142/160 [22:47<02:52, 9.58s/it]masks dr unique: tensor([-7.
    8039, -7.7894, -7.7878, ..., 12.8325, 12.8354, 12.8358],
            grad_fn=<Unique2Backward0>)
3753 masks_dr unique: tensor([-7.8039, -7.7894, -7.7878, ..., 12.8325, 12.8354, 12.8358],
3754
            grad_fn=<Unique2Backward0>)
3755 Epoch 21/499: 89%
                                143/160 [22:57<02:43, 9.62s/it]print_dice: 0.</pre>
     5674067139625549,
                         print_iou: 0.39606964588165283
3756 masks_dr unique: tensor([-7.6165, -7.6100, -7.5918, ..., 11.5093, 11.5115, 11.5137],
            grad_fn=<Unique2Backward0>)
3757
3758 masks_dr unique: tensor([-7.6165, -7.6100, -7.5918, ..., 11.5093, 11.5115, 11.5137],
            grad fn=<Unique2Backward0>)
3759
3760 Epoch 21/499: 90%
                                 | | 144/160 [23:06<02:33, 9.57s/it]print dice: 0.
                         print iou: 0.3617364764213562
    5312870144844055,
3761 masks dr unique: tensor([-7.5409, -7.5381, -7.5250, ..., 11.9634, 11.9635, 11.9638],
            grad fn=<Unique2Backward0>)
3762
3763 masks dr unique: tensor([-7.5409, -7.5381, -7.5250, ..., 11.9634, 11.9635, 11.9638],
            grad_fn=<Unique2Backward0>)
3764
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3765 print dice: 0.5473397970199585, print iou: 0.37678447365760803
3766 Epoch 21/499: 91% | 145/160 [23:16<02:22, 9.52s/it]masks_dr unique: tensor([-7.
    8467, -7.8447, -7.8436, ..., 12.5206, 12.5217, 12.5221],
3767
           grad fn=<Unique2Backward0>)
3768 masks_dr unique: tensor([-7.8467, -7.8447, -7.8436, ..., 12.5206, 12.5217, 12.5221],
           grad_fn=<Unique2Backward0>)
3770 Epoch 21/499: 91%| | 146/160 [23:25<02:12, 9.50s/it]print_dice: 0.
                      print_iou: 0.37250733375549316
    5428128838539124,
3771 masks_dr unique: tensor([-7.6597, -7.6542, -7.6435, ..., 11.6899, 11.6957, 11.7002],
           grad fn=<Unique2Backward0>)
3772
3773 masks_dr unique: tensor([-7.6597, -7.6542, -7.6435, ..., 11.6899, 11.6957, 11.7002],
           grad_fn=<Unique2Backward0>)
3774
3775 print_dice: 0.540774941444397, print_iou: 0.370590478181839
3776 Epoch 21/499: 92%| | 147/160 [23:35<02:03, 9.53s/it]masks_dr unique: tensor([-7.
    8731, -7.8588, -7.8543, ..., 12.4814, 12.4843, 12.4847],
3777
           grad_fn=<Unique2Backward0>)
3778 masks_dr unique: tensor([-7.8731, -7.8588, -7.8543, ..., 12.4814, 12.4843, 12.4847],
           grad_fn=<Unique2Backward0>)
3779
3780 Epoch 21/499: 92% | 148/160 [23:45<01:55, 9.62s/it]print_dice: 0.
    4747830033302307, print_iou: 0.31128883361816406
3781 masks_dr unique: tensor([-7.5764, -7.5494, -7.5434, ..., 12.0232, 12.0296, 12.0346],
3782
           grad_fn=<Unique2Backward0>)
3783 masks_dr unique: tensor([-7.5764, -7.5494, -7.5434, ..., 12.0232, 12.0296, 12.0346],
3784
           grad fn=<Unique2Backward0>)
3785 print dice: 0.47562384605407715,
                                     print_iou: 0.3120121359825134
3786 Epoch 21/499: 93%| 11/49/160 [23:55<01:46, 9.66s/it]masks_dr unique: tensor([-7.
    5530, -7.5400, -7.5382, ..., 11.5941, 11.5995, 11.6043],
3787
           grad_fn=<Unique2Backward0>)
3788 masks_dr unique: tensor([-7.5530, -7.5400, -7.5382, ..., 11.5941, 11.5995, 11.6043],
           grad fn=<Unique2Backward0>)
3790 print dice: 0.4724259078502655, print iou: 0.30926546454429626
3791 Epoch 21/499: 94%| 94%| 150/160 [24:04<01:36, 9.62s/it]masks_dr unique: tensor([-7.
    7133, -7.6853, -7.6850, ..., 12.3629, 12.3707, 12.3756],
3792
           grad_fn=<Unique2Backward0>)
3793 masks dr unique: tensor([-7.7133, -7.6853, -7.6850, ..., 12.3629, 12.3707, 12.3756],
           grad_fn=<Unique2Backward0>)
5805501937866211, print_iou: 0.4089966118335724
3796 masks_dr unique: tensor([-7.6102, -7.6039, -7.5859, ..., 11.5136, 11.5158, 11.5180],
           grad fn=<Unique2Backward0>)
3797
3798 masks_dr unique: tensor([-7.6102, -7.6039, -7.5859, ..., 11.5136, 11.5158, 11.5180],
           grad_fn=<Unique2Backward0>)
3800 print_dice: 0.5541187524795532, print_iou: 0.3832394480705261
3801 Epoch 21/499: 95%| 95%| 152/160 [24:23<01:16, 9.58s/it]masks_dr unique: tensor([-7.
    4425, -7.4257, -7.4229, ..., 12.0956, 12.1007, 12.1053],
3802
           grad_fn=<Unique2Backward0>)
3803 masks_dr unique: tensor([-7.4425, -7.4257, -7.4229, ..., 12.0956, 12.1007, 12.1053],
           grad fn=<Unique2Backward0>)
3804
3805 Epoch 21/499: 96%| | | 153/160 [24:33<01:07, 9.60s/it]print_dice: 0.531021237373352
        print iou: 0.36149004101753235
3806 masks_dr unique: tensor([-7.3397, -7.3176, -7.3102, ..., 11.6908, 11.6964, 11.7021],
3807
           grad fn=<Unique2Backward0>)
3808 masks_dr unique: tensor([-7.3397, -7.3176, -7.3102, ..., 11.6908, 11.6964, 11.7021],
3809
           grad_fn=<Unique2Backward0>)
3810 print_dice: 0.5138022303581238, print_iou: 0.3457159399986267
3811 Epoch 21/499: 96% | 154/160 [24:42<00:57, 9.57s/it]masks_dr unique: tensor([-7.
    8245, -7.8144, -7.8090, ..., 12.6708, 12.6709, 12.6772],
3812
           grad_fn=<Unique2Backward0>)
3813 masks_dr unique: tensor([-7.8245, -7.8144, -7.8090, ..., 12.6708, 12.6709, 12.6772],
3814
           grad_fn=<Unique2Backward0>)
3815 Epoch 21/499: 97% | 155/160 [24:52<00:47, 9.56s/it]print_dice: 0.
                      print_iou: 0.41217514872550964
    5837450623512268,
3816 masks_dr unique: tensor([-7.6883, -7.6788, -7.6749, ..., 12.0433, 12.0518, 12.0532],
           grad fn=<Unique2Backward0>)
3817
3818 masks_dr unique: tensor([-7.6883, -7.6788, -7.6749, ..., 12.0433, 12.0518, 12.0532],
           grad_fn=<Unique2Backward0>)
3819
3820 print dice: 0.47147002816200256,
                                      print iou: 0.3084467053413391
3821 Epoch 21/499: 98%
                        156/160 [25:01<00:38, 9.59s/it]masks_dr unique: tensor([-7.
    6082, -7.6017, -7.5835, ..., 11.5080, 11.5100, 11.5121],
```

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3822
           grad fn=<Unique2Backward0>)
3823 masks_dr unique: tensor([-7.6082, -7.6017, -7.5835, ..., 11.5080, 11.5100, 11.5121],
           grad fn=<Unique2Backward0>)
3825 Epoch 21/499: 98% 98% 157/160 [25:11<00:28, 9.65s/it]print dice: 0.
    44770145416259766, print_iou: 0.288411945104599
3826 masks_dr unique: tensor([-7.4544, -7.4530, -7.4394, ..., 12.3596, 12.3612, 12.3614],
           grad_fn=<Unique2Backward0>)
3827
3828 masks_dr unique: tensor([-7.4544, -7.4530, -7.4394, ..., 12.3596, 12.3612, 12.3614],
3829
           grad_fn=<Unique2Backward0>)
3830 Epoch 21/499: 99% | 158/160 [25:21<00:19, 9.69s/it]print_dice: 0.
                      print iou: 0.40994617342948914
    5815061330795288,
3831 masks_dr unique: tensor([-7.9404, -7.9306, -7.9231, ..., 12.8083, 12.8096, 12.8147],
           grad_fn=<Unique2Backward0>)
3832
3833 masks dr unique: tensor([-7.9404, -7.9306, -7.9231, ..., 12.8083, 12.8096, 12.8147],
           grad_fn=<Unique2Backward0>)
3834
3835 Epoch 21/499: 99% 99% 159/160 [25:30<00:09, 9.58s/it]print dice: 0.
    49031373858451843, print_iou: 0.32477858662605286
3836 masks_dr unique: tensor([-7.8824, -7.8775, -7.8634, ..., 12.0619, 12.0628, 12.0666],
3837
           grad_fn=<Unique2Backward0>)
3838 masks_dr unique: tensor([-7.8824, -7.8775, -7.8634, ..., 12.0619, 12.0628, 12.0666],
           grad_fn=<Unique2Backward0>)
3839
3840 print_dice: 0.5416734218597412,
                                    print_iou: 0.37143489718437195
      [159/160] eta: 0:00:09 time: 9.5941 data: 0.0006
3841
3842 Epoch 21/499: 100%| 100%| 160/160 [25:40<00:00, 9.63s/it]
3843 Total time: 0:25:40 (9.6306 s / it)
3844 Averaged stats: training_loss: -345.3123 (-345.3123) loss_mask: -345.2848 (-345.2848)
    loss dice: -0.0275 (-0.0275)
                   | 0/12 [00:00<?, ?it/s]Net parameter norm: 1054.4229496085318
      0%
3845
3846 Validating...
3847 Valid dataloader len: 12
3848 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.3394e-04, 3.
    6118e-04, 3.6795e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
3850 masks dr unique: tensor([5.9013e-04, 5.9244e-04, 5.9996e-04, ..., 9.9999e-01, 9.9999e-01,
3851
            9.9999e-01], grad_fn=<Unique2Backward0>)
3852
                   8%|
    3857792615890503
                             time: 10.6105 data: 4.8631
3853
      [ 0/12] eta: 0:02:07
3854 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.3390e-04, 3.
    6086e-04, 3.6774e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
3855
3856 masks_dr unique: tensor([5.8978e-04, 5.9209e-04, 5.9960e-04, ..., 9.9999e-01, 9.9999e-01,
3857
            9.9999e-01], grad_fn=<Unique2Backward0>)
3858 print_dice: 0.6047325730323792, print iou: 0.4334169626235962
                   3859 17%
    ]) unique sigmoid values: tensor([3.7912e-04, 4.1615e-04, 4.5010e-04, ..., 1.0000e+00, 1.
    0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
3860
3861 masks_dr unique: tensor([7.0517e-04, 7.0807e-04, 7.2192e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
3863 print_dice: 0.527320921421051, print_iou: 0.35806915163993835
                   | 3/12 [00:22<01:01, 6.85s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([5.6258e-04, 5.8664e-04, 6.5880e-04, ..., 9.9999e-01, 9.
    9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
3866 masks_dr unique: tensor([6.8464e-04, 7.0422e-04, 7.1572e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
3867
                   | 4/12 [00:28<00:52, 6.54s/it]print_dice: 0.5129135847091675, print_iou: 0.
3868 33%
    34491172432899475
3869 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.3332e-04, 3.
    6126e-04, 3.6747e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
3870
3871 masks_dr unique: tensor([5.8988e-04, 5.9218e-04, 5.9970e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
3872
                   | 5/12 [00:34<00:44, 6.29s/it]print dice: 0.5772855281829834, print iou: 0.
3873 42%
    4057634174823761
3874 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.8258e-04, 3.
    9523e-04, 4.0713e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
3875
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3876 masks dr unique: tensor([6.1648e-04, 6.1811e-04, 6.1878e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
3878 print dice: 0.5046750903129578, print iou: 0.33750197291374207
3879 50%
                   ]) unique sigmoid values: tensor([2.3697e-04, 2.6507e-04, 2.7792e-04, ..., 9.9999e-01, 1.
    0000e+00,
3880
            1.0000e+00], grad_fn=<Unique2Backward0>)
3881 masks_dr unique: tensor([3.9575e-04, 3.9630e-04, 4.0353e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
3882
3883 58%
                   | 7/12 [00:45<00:30, 6.12s/it]print dice: 0.43935370445251465, print iou: 0
     .2815203368663788
3884 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.2645e-04, 4.
    4694e-04, 4.5057e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
3885
3886 masks dr unique: tensor([7.8376e-04, 8.0100e-04, 8.0206e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
3887
3888 print dice: 0.5444136261940002, print iou: 0.3740167021751404
          8/12 [00:51<00:23, 5.97s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([4.5566e-04, 4.6413e-04, 4.8973e-04, ..., 1.0000e+00, 1.
    0000e+00,
3890
            1.0000e+00], grad_fn=<Unique2Backward0>)
3891 masks_dr unique: tensor([6.5096e-04, 6.5678e-04, 6.5826e-04, ..., 1.0000e+00, 1.0000e+00,
3892
            1.0000e+00], grad fn=<Unique2Backward0>)
3893 75%
                  | 9/12 [00:58<00:18, 6.12s/it]print_dice: 0.5591326355934143, print_iou: 0.
    3880528211593628
3894 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.8137e-04, 4.
    9592e-04, 5.1167e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
3895
3896 masks_dr unique: tensor([7.9214e-04, 7.9293e-04, 7.9991e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
3897
3898 83%| | 10/12 [01:03<00:12, 6.01s/it]print_dice: 0.5701645016670227, print_iou: 0
     .3987622857093811
3899 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.7337e-04, 4.
    1647e-04, 4.1678e-04, ..., 9.9999e-01, 9.9999e-01,
3900
            9.9999e-01], grad_fn=<Unique2Backward0>)
3901 masks_dr unique: tensor([7.4632e-04, 7.6455e-04, 7.6961e-04, ..., 9.9999e-01, 9.9999e-01,
3902
            9.9999e-01], grad_fn=<Unique2Backward0>)
3903 print_dice: 0.6173225045204163, print_iou: 0.44646891951560974
                | 11/12 [01:09<00:05, 5.93s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.3360e-04, 3.6101e-04, 3.6758e-04, ..., 9.9999e-01, 9.
    9999e-01,
3905
            9.9999e-01], grad_fn=<Unique2Backward0>)
3906 masks_dr unique: tensor([5.9002e-04, 5.9233e-04, 5.9985e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
            | 12/12 [01:15<00:00, 5.85s/it]print_dice: 0.5805361270904541, print_iou: 0
     .40898266434669495
                             time: 6.2711 data: 0.4056
3909
      [11/12] eta: 0:00:06
          12/12 [01:15<00:00, 6.30s/it]
3911 Total time: 0:01:15 (6.3042 s / it)
3912 ==============
3913 Averaged stats:
3914 Epoch 22/499:
                  0%|
                                | 0/160 [00:00<?, ?it/s]epoch: 22 learning rate:
3915 masks_dr unique: tensor([-7.6014, -7.5948, -7.5766, ..., 11.5105, 11.5113, 11.5134],
3916
           grad_fn=<Unique2Backward0>)
3917 masks_dr unique: tensor([-7.6014, -7.5948, -7.5766, ..., 11.5105, 11.5113, 11.5134],
           grad_fn=<Unique2Backward0>)
3918
3919 print_dice: 0.5496575236320496, print_iou: 0.37898463010787964
      [ 0/160] eta: 0:36:16
                                time: 13.6058 data: 4.0606
3921 Epoch 22/499:
                    1%|
                                 | 1/160 [00:13<36:03, 13.61s/it]masks_dr unique: tensor([-7.
    5980, -7.5914, -7.5733, ..., 11.5129, 11.5154, 11.5178],
3922
           grad_fn=<Unique2Backward0>)
3923 masks dr unique: tensor([-7.5980, -7.5914, -7.5733, ..., 11.5129, 11.5154, 11.5178],
3924
           grad_fn=<Unique2Backward0>)
3925 print_dice: 0.5567015409469604, print_iou: 0.3857147991657257
3926 Epoch 22/499:
                   1%||
                                2/160 [00:23<29:40, 11.27s/it]masks_dr unique: tensor([-7.
    8591, -7.8553, -7.8408, ..., 12.8830, 12.8857, 12.8866],
3927
           grad fn=<Unique2Backward0>)
3928 masks dr unique: tensor([-7.8591, -7.8553, -7.8408, ..., 12.8830, 12.8857, 12.8866],
3929
           grad fn=<Unique2Backward0>)
```

```
3930 Epoch 22/499:
                    2%||
                                 | 3/160 [00:32<27:36, 10.55s/it]print dice: 0.5775954127311707
        print iou: 0.40606972575187683
3931 masks_dr unique: tensor([-7.5892, -7.5825, -7.5644, ..., 11.5154, 11.5178, 11.5203],
3932
           grad fn=<Unique2Backward0>)
3933 masks_dr unique: tensor([-7.5892, -7.5825, -7.5644, ..., 11.5154, 11.5178, 11.5203],
           grad_fn=<Unique2Backward0>)
                                 4/160 [00:42<26:25, 10.17s/it]print dice: 0.5364577174186707
3935 Epoch 22/499:
                    2%|
        print_iou: 0.36654746532440186
3936 masks_dr unique: tensor([-7.5749, -7.5650, -7.5638, ..., 12.1339, 12.1399, 12.1444],
3937
           grad fn=<Unique2Backward0>)
3938 masks_dr unique: tensor([-7.5749, -7.5650, -7.5638, ..., 12.1339, 12.1399, 12.1444],
3939
           grad_fn=<Unique2Backward0>)
3940 print_dice: 0.46384838223457336, print_iou: 0.30195483565330505
                           | 5/160 [00:51<25:35, 9.91s/it]masks_dr unique: tensor([-7.
                    3%||
3941 Epoch 22/499:
    5824, -7.5757, -7.5576, ..., 11.5199, 11.5226, 11.5253],
3942
           grad_fn=<Unique2Backward0>)
3943 masks_dr unique: tensor([-7.5824, -7.5757, -7.5576, ..., 11.5199, 11.5226, 11.5253],
           grad_fn=<Unique2Backward0>)
3945 print_dice: 0.5336806774139404, print_iou: 0.36395934224128723
3946 Epoch 22/499: 4%|■
                          | 6/160 [01:01<24:56, 9.72s/it]masks_dr unique: tensor([-7.
    5798, -7.5731, -7.5550, ..., 11.5244, 11.5272, 11.5299],
3947
           grad_fn=<Unique2Backward0>)
3948 masks_dr unique: tensor([-7.5798, -7.5731, -7.5550, ..., 11.5244, 11.5272, 11.5299],
3949
           grad fn=<Unique2Backward0>)
                    4%
                                 7/160 [01:10<24:44, 9.70s/it]print_dice: 0.5515388250350952
3950 Epoch 22/499:
        print iou: 0.38077569007873535
3951 masks_dr unique: tensor([-7.5770, -7.5702, -7.5521, ..., 11.5181, 11.5208, 11.5234],
           grad_fn=<Unique2Backward0>)
3953 masks dr unique: tensor([-7.5770, -7.5702, -7.5521, ..., 11.5181, 11.5208, 11.5234],
           grad fn=<Unique2Backward0>)
3954
                                 8/160 [01:20<24:35, 9.71s/it]print dice: 0.44643792510032654
3955 Epoch 22/499:
                    5%|
        print_iou: 0.28736406564712524
3956 masks_dr unique: tensor([-7.5754, -7.5686, -7.5505, ..., 11.5241, 11.5270, 11.5300],
3957
           grad_fn=<Unique2Backward0>)
3958 masks dr unique: tensor([-7.5754, -7.5686, -7.5505, ..., 11.5241, 11.5270, 11.5300],
           grad_fn=<Unique2Backward0>)
3960 print_dice: 0.5403616428375244, print_iou: 0.3702024221420288
3961 Epoch 22/499: 6%
                                 | 9/160 [01:30<24:22, 9.69s/it]masks_dr unique: tensor([-7.
    2822, -7.2719, -7.2566, ..., 11.7099, 11.7137, 11.7180],
           grad fn=<Unique2Backward0>)
3962
3963 masks_dr unique: tensor([-7.2822, -7.2719, -7.2566, ..., 11.7099, 11.7137, 11.7180],
           grad_fn=<Unique2Backward0>)
3965 Epoch 22/499: 6%|■
                                 | 10/160 [01:39<24:03, 9.62s/it]print_dice: 0.5108013153076172
        print_iou: 0.34300416707992554
3966 masks_dr unique: tensor([-7.3041, -7.2984, -7.2962, ..., 12.3906, 12.3918, 12.3936],
           grad_fn=<Unique2Backward0>)
3968 masks_dr unique: tensor([-7.3041, -7.2984, -7.2962, ..., 12.3906, 12.3918, 12.3936],
           grad_fn=<Unique2Backward0>)
3969
3970 print_dice: 0.4943034052848816, print_iou: 0.32828885316848755
                          | 11/160 [01:49<23:57, 9.65s/it]masks dr unique: tensor([-7.
3971 Epoch 22/499: 7% ■
    3066, -7.2810, -7.2791, ..., 12.0177, 12.0243, 12.0275],
3972
           grad_fn=<Unique2Backward0>)
3973 masks_dr unique: tensor([-7.3066, -7.2810, -7.2791, ..., 12.0177, 12.0243, 12.0275],
3974
           grad_fn=<Unique2Backward0>)
3975 print_dice: 0.48753800988197327, print_iou: 0.3223472833633423
3976 Epoch 22/499: 8%|  | 12/160 [01:59<23:48, 9.65s/it]masks_dr unique: tensor([-7.
    4295, -7.4275, -7.4146, ..., 12.8606, 12.8621, 12.8631],
3977
           grad fn=<Unique2Backward0>)
3978 masks dr unique: tensor([-7.4295, -7.4275, -7.4146, ..., 12.8606, 12.8621, 12.8631],
3979
           grad_fn=<Unique2Backward0>)
3980 print_dice: 0.552662193775177,
                                    print_iou: 0.38184741139411926
3981 Epoch 22/499:
                    8%|
                                 | 13/160 [02:08<23:41, 9.67s/it]masks_dr unique: tensor([-7.
    5127, -7.5025, -7.4875, ..., 11.7702, 11.7746, 11.7798],
3982
           grad fn=<Unique2Backward0>)
3983 masks_dr unique: tensor([-7.5127, -7.5025, -7.4875, ..., 11.7702, 11.7746, 11.7798],
3984
           grad_fn=<Unique2Backward0>)
3985 print dice: 0.5760098099708557,
                                      print_iou: 0.40450406074523926
3986 Epoch 22/499:
                    9%
                                 | 14/160 [02:18<23:22, 9.61s/it]masks_dr unique: tensor([-7.
    5679, -7.5611, -7.5431, ..., 11.5253, 11.5284, 11.5315],
```

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3987
           grad fn=<Unique2Backward0>)
3988 masks_dr unique: tensor([-7.5679, -7.5611, -7.5431, ..., 11.5253, 11.5284, 11.5315],
           grad_fn=<Unique2Backward0>)
                                 | 15/160 [02:28<23:16, 9.63s/it]print_dice: 0.5818094611167908
3990 Epoch 22/499:
                    9%
        print_iou: 0.4102477431297302
3991 masks_dr unique: tensor([-7.5672, -7.5603, -7.5422, ..., 11.5243, 11.5273, 11.5302],
           grad fn=<Unique2Backward0>)
3993 masks_dr unique: tensor([-7.5672, -7.5603, -7.5422, ..., 11.5243, 11.5273, 11.5302],
           grad_fn=<Unique2Backward0>)
3995 print dice: 0.4893827438354492, print iou: 0.32396212220191956
                           | 16/160 [02:37<23:01, 9.59s/it]masks_dr unique: tensor([-7.
3996 Epoch 22/499: 10%
    3847, -7.3661, -7.3574, ..., 11.4719, 11.4764, 11.4804],
3997
           grad_fn=<Unique2Backward0>)
3998 masks dr unique: tensor([-7.3847, -7.3661, -7.3574, ..., 11.4719, 11.4764, 11.4804],
3999
           grad fn=<Unique2Backward0>)
4000 print_dice: 0.5019121766090393, print_iou: 0.3350352346897125
4001 Epoch 22/499: 11%| | 17/160 [02:47<22:53, 9.61s/it]masks_dr unique: tensor([-7.
    5475, -7.5326, -7.5291, ..., 12.8663, 12.8678, 12.8692],
4002
           grad_fn=<Unique2Backward0>)
4003 masks_dr unique: tensor([-7.5475, -7.5326, -7.5291, ..., 12.8663, 12.8678, 12.8692],
           grad_fn=<Unique2Backward0>)
4004
4005 print_dice: 0.5522393584251404, print_iou: 0.3814438283443451
4006 Epoch 22/499: 11%| | 18/160 [02:56<22:44, 9.61s/it]masks_dr unique: tensor([-7.
    5660, -7.5592, -7.5412, ..., 11.5249, 11.5280, 11.5310],
4007
           grad_fn=<Unique2Backward0>)
4008 masks_dr unique: tensor([-7.5660, -7.5592, -7.5412, ..., 11.5249, 11.5280, 11.5310],
4009
           grad fn=<Unique2Backward0>)
4010 Epoch 22/499: 12%
                                 | 19/160 [03:06<22:36, 9.62s/it]print_dice: 0.5371789336204529
        print iou: 0.36722123622894287
4011 masks_dr unique: tensor([-7.7295, -7.7021, -7.6982, ..., 11.9669, 11.9750, 11.9788],
           grad_fn=<Unique2Backward0>)
4013 masks_dr unique: tensor([-7.7295, -7.7021, -7.6982, ..., 11.9669, 11.9750, 11.9788],
           grad fn=<Unique2Backward0>)
4015 print dice: 0.5108885765075684, print iou: 0.34308284521102905
4016 Epoch 22/499: 12% ■ | 20/160 [03:15<22:19, 9.57s/it]masks_dr unique: tensor([-7.
    2591, -7.2515, -7.2507, ..., 11.6417, 11.6421, 11.6456],
           grad fn=<Unique2Backward0>)
4017
4018 masks dr unique: tensor([-7.2591, -7.2515, -7.2507, ..., 11.6417, 11.6421, 11.6456],
           grad_fn=<Unique2Backward0>)
                                 | 21/160 [03:25<22:18, 9.63s/it]print_dice: 0.5168794989585876
4020 Epoch 22/499: 13%
        print iou: 0.3485080599784851
4021 masks_dr unique: tensor([-7.6836, -7.6674, -7.6487, ..., 12.7912, 12.7931, 12.7933],
           grad_fn=<Unique2Backward0>)
4023 masks_dr unique: tensor([-7.6836, -7.6674, -7.6487, ..., 12.7912, 12.7931, 12.7933],
4024
           grad_fn=<Unique2Backward0>)
4025 print_dice: 0.5349873304367065, print_iou: 0.36517587304115295
4026 Epoch 22/499: 14%
                          | 22/160 [03:35<22:06, 9.61s/it]masks_dr unique: tensor([-7.
    8025, -7.7704, -7.7669, ..., 11.6785, 11.6789, 11.6825],
4027
           grad_fn=<Unique2Backward0>)
4028 masks dr unique: tensor([-7.8025, -7.7704, -7.7669, ..., 11.6785, 11.6789, 11.6825],
4029
           grad fn=<Unique2Backward0>)
                                 23/160 [03:44<21:57, 9.62s/it]print_dice: 0.5050286054611206
4030 Epoch 22/499: 14%
        print_iou: 0.3378182053565979
4031 masks_dr unique: tensor([-7.7436, -7.7422, -7.7382, ..., 12.1330, 12.1348, 12.1351],
           grad_fn=<Unique2Backward0>)
4033 masks_dr unique: tensor([-7.7436, -7.7422, -7.7382, ..., 12.1330, 12.1348, 12.1351],
4034
           grad_fn=<Unique2Backward0>)
4035 Epoch 22/499: 15%
                                 24/160 [03:54<21:39, 9.55s/it]print_dice: 0.4790336787700653
        print_iou: 0.3149535059928894
4036 masks_dr unique: tensor([-7.5368, -7.5243, -7.5170, ..., 11.5036, 11.5038, 11.5075],
           grad_fn=<Unique2Backward0>)
4038 masks_dr unique: tensor([-7.5368, -7.5243, -7.5170, ..., 11.5036, 11.5038, 11.5075],
           grad_fn=<Unique2Backward0>)
4039
4040 Epoch 22/499: 16%
                                 25/160 [04:03<21:31, 9.57s/it]print_dice: 0.5333689451217651
        print_iou: 0.3636694848537445
4041 masks_dr unique: tensor([-7.5631, -7.5528, -7.5527, ..., 12.7785, 12.7805, 12.7818],
4042
           grad fn=<Unique2Backward0>)
4043 masks_dr unique: tensor([-7.5631, -7.5528, -7.5527, ..., 12.7785, 12.7805, 12.7818],
           grad fn=<Unique2Backward0>)
4044
```

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4045 print dice: 0.493732750415802, print iou: 0.3277856111526489
4046 Epoch 22/499: 16% 26/160 [04:13<21:24, 9.58s/it] masks_dr unique: tensor([-7.
    5190, -7.5043, -7.4914, ..., 11.9575, 11.9641, 11.9673],
4047
           grad fn=<Unique2Backward0>)
4048 masks_dr unique: tensor([-7.5190, -7.5043, -7.4914, ..., 11.9575, 11.9641, 11.9673],
           grad fn=<Unique2Backward0>)
4050 Epoch 22/499: 17%
                                27/160 [04:23<21:20, 9.62s/it]print_dice: 0.4401687979698181
        print_iou: 0.2821900248527527
4051 masks_dr unique: tensor([-7.5721, -7.5652, -7.5473, ..., 11.5232, 11.5264, 11.5295],
           grad fn=<Unique2Backward0>)
4052
4053 masks_dr unique: tensor([-7.5721, -7.5652, -7.5473, ..., 11.5232, 11.5264, 11.5295],
           grad fn=<Unique2Backward0>)
4054
4055 print dice: 0.4554829001426697, print iou: 0.29490312933921814
4056 Epoch 22/499: 18%|■■ | 28/160 [04:32<21:05, 9.59s/it]masks_dr unique: tensor([-7.
    4329, -7.4102, -7.4101, ..., 12.0176, 12.0221, 12.0266],
4057
           grad_fn=<Unique2Backward0>)
4058 masks_dr unique: tensor([-7.4329, -7.4102, -7.4101, ..., 12.0176, 12.0221, 12.0266],
           grad_fn=<Unique2Backward0>)
4060 print_dice: 0.5143280029296875, print_iou: 0.3461921811103821
4061 Epoch 22/499: 18% 29/160 [04:42<20:59, 9.61s/it] masks_dr unique: tensor([-7.
    7848, -7.7800, -7.7620, ..., 12.8705, 12.8740, 12.8742],
4062
           grad_fn=<Unique2Backward0>)
4063 masks dr unique: tensor([-7.7848, -7.7800, -7.7620, ..., 12.8705, 12.8740, 12.8742],
4064
           grad fn=<Unique2Backward0>)
4065 print_dice: 0.5141423940658569, print_iou: 0.3460239768028259
5790, -7.5722, -7.5542, ..., 11.5244, 11.5272, 11.5300],
4067
           grad_fn=<Unique2Backward0>)
4068 masks_dr unique: tensor([-7.5790, -7.5722, -7.5542, ..., 11.5244, 11.5272, 11.5300],
           grad fn=<Unique2Backward0>)
4070 print dice: 0.5995045304298401, print_iou: 0.4280660152435303
4071 Epoch 22/499: 19%
    3752, -7.3719, -7.3568, ..., 11.6263, 11.6313, 11.6340],
4072
           grad_fn=<Unique2Backward0>)
4073 masks_dr unique: tensor([-7.3752, -7.3719, -7.3568, ..., 11.6263, 11.6313, 11.6340],
           grad_fn=<Unique2Backward0>)
4075 Epoch 22/499: 20%
                                32/160 [05:11<20:29, 9.60s/it]print_dice: 0.4614972770214081
        print_iou: 0.2999652028083801
4076 masks_dr unique: tensor([-7.5803, -7.5735, -7.5554, ..., 11.5235, 11.5263, 11.5290],
4077
           grad fn=<Unique2Backward0>)
4078 masks_dr unique: tensor([-7.5803, -7.5735, -7.5554, ..., 11.5235, 11.5263, 11.5290],
4079
           grad_fn=<Unique2Backward0>)
                                | 33/160 [05:20<20:15, 9.57s/it]print_dice: 0.4758090376853943
4080 Epoch 22/499: 21%
        print_iou: 0.3121715188026428
4081 masks_dr unique: tensor([-7.5817, -7.5748, -7.5568, ..., 11.5244, 11.5272, 11.5300],
           grad_fn=<Unique2Backward0>)
4083 masks_dr unique: tensor([-7.5817, -7.5748, -7.5568, ..., 11.5244, 11.5272, 11.5300],
           grad_fn=<Unique2Backward0>)
4084
                                | 34/160 [05:30<20:03, 9.55s/it]print_dice: 0.5022726058959961
4085 Epoch 22/499: 21%
        print iou: 0.3353564739227295
4086 masks_dr unique: tensor([-7.4005, -7.3908, -7.3825, ..., 11.4307, 11.4355, 11.4392],
           grad_fn=<Unique2Backward0>)
4087
4088 masks_dr unique: tensor([-7.4005, -7.3908, -7.3825, ..., 11.4307, 11.4355, 11.4392],
           grad_fn=<Unique2Backward0>)
4089
4090 print_dice: 0.5633928775787354, print_iou: 0.3921690583229065
4091 Epoch 22/499: 22% | | 35/160 [05:39<19:54, 9.55s/it]masks_dr unique: tensor([-7.
    5803, -7.5711, -7.5521, ..., 11.8421, 11.8475, 11.8528],
4092
           grad_fn=<Unique2Backward0>)
4093 masks_dr unique: tensor([-7.5803, -7.5711, -7.5521, ..., 11.8421, 11.8475, 11.8528],
           grad fn=<Unique2Backward0>)
4094
4095 print dice: 0.4771001636981964,
                                   print_iou: 0.3132840096950531
4096 Epoch 22/499: 22%
                                | 36/160 [05:49<19:49, 9.59s/it]masks_dr unique: tensor([-7.
    5865, -7.5796, -7.5616, ..., 11.5262, 11.5290, 11.5318],
4097
           grad_fn=<Unique2Backward0>)
4098 masks_dr unique: tensor([-7.5865, -7.5796, -7.5616, ..., 11.5262, 11.5290, 11.5318],
           grad fn=<Unique2Backward0>)
4099
4100 Epoch 22/499: 23%
                                37/160 [05:59<19:41, 9.61s/it]print_dice: 0.5504435300827026
        print_iou: 0.3797323703765869
4101 masks_dr unique: tensor([-7.5855, -7.5787, -7.5607, ..., 11.5280, 11.5310, 11.5339],
```

```
grad fn=<Unique2Backward0>)
4102
4103 masks_dr unique: tensor([-7.5855, -7.5787, -7.5607, ..., 11.5280, 11.5310, 11.5339],
           grad_fn=<Unique2Backward0>)
4105 Epoch 22/499: 24%
                                 | 38/160 [06:08<19:27, 9.57s/it]print_dice: 0.4964594542980194
        print iou: 0.33019357919692993
4106 masks_dr unique: tensor([-7.5882, -7.5814, -7.5635, ..., 11.5305, 11.5335, 11.5366],
           grad_fn=<Unique2Backward0>)
4107
4108 masks dr unique: tensor([-7.5882, -7.5814, -7.5635, ..., 11.5305, 11.5335, 11.5366],
           grad_fn=<Unique2Backward0>)
4110 Epoch 22/499: 24%
                                 | 39/160 [06:18<19:12, 9.53s/it]print_dice: 0.5619685053825378
        print iou: 0.39079010486602783
4111 masks_dr unique: tensor([-7.5890, -7.5822, -7.5641, ..., 11.5249, 11.5276, 11.5302],
4112
           grad_fn=<Unique2Backward0>)
4113 masks dr unique: tensor([-7.5890, -7.5822, -7.5641, ..., 11.5249, 11.5276, 11.5302],
4114
           grad fn=<Unique2Backward0>)
4115 print_dice: 0.4886568486690521, print_iou: 0.3233262002468109
4116 Epoch 22/499: 25% 40/160 [06:27<19:09, 9.58s/it]masks_dr unique: tensor([-7.
    3524, -7.3453, -7.3281, ..., 11.9411, 11.9412, 11.9420],
4117
           grad_fn=<Unique2Backward0>)
4118 masks_dr unique: tensor([-7.3524, -7.3453, -7.3281, ..., 11.9411, 11.9412, 11.9420],
           grad_fn=<Unique2Backward0>)
4119
4120 Epoch 22/499: 26%
                                 41/160 [06:37<19:03, 9.61s/it]print_dice: 0.4844105839729309
        print iou: 0.3196186125278473
4121 masks_dr unique: tensor([-8.0086, -8.0067, -8.0043, ..., 12.4875, 12.4886, 12.4888],
           grad_fn=<Unique2Backward0>)
4122
4123 masks_dr unique: tensor([-8.0086, -8.0067, -8.0043, ..., 12.4875, 12.4886, 12.4888],
           grad fn=<Unique2Backward0>)
4124
4125 Epoch 22/499: 26%
                                42/160 [06:46<18:49, 9.58s/it]print_dice: 0.5141467452049255
        print_iou: 0.3460279405117035
4126 masks_dr unique: tensor([-7.9104, -7.9088, -7.9044, ..., 12.6554, 12.6573, 12.6580],
           grad_fn=<Unique2Backward0>)
4128 masks_dr unique: tensor([-7.9104, -7.9088, -7.9044, ..., 12.6554, 12.6573, 12.6580],
           grad fn=<Unique2Backward0>)
                                 | 43/160 [06:56<18:33, 9.52s/it]print_dice: 0.5839534997940063
4130 Epoch 22/499: 27%
        print_iou: 0.41238299012184143
4131 masks_dr unique: tensor([-7.4468, -7.4393, -7.4258, ..., 11.5775, 11.5837, 11.5882],
           grad_fn=<Unique2Backward0>)
4132
4133 masks dr unique: tensor([-7.4468, -7.4393, -7.4258, ..., 11.5775, 11.5837, 11.5882],
           grad_fn=<Unique2Backward0>)
4135 print dice: 0.4985722601413727, print_iou: 0.3320654332637787
4136 Epoch 22/499: 28%
                                44/160 [07:05<18:24, 9.52s/it]masks_dr unique: tensor([-7.
    5779, -7.5777, -7.5683, ..., 12.8803, 12.8813, 12.8825],
4137
           grad_fn=<Unique2Backward0>)
4138 masks_dr unique: tensor([-7.5779, -7.5777, -7.5683, ..., 12.8803, 12.8813, 12.8825],
4139
           grad_fn=<Unique2Backward0>)
4140 print_dice: 0.5246911644935608, print_iou: 0.35564833879470825
4141 Epoch 22/499: 28%
    5413, -7.5103, -7.5085, ..., 11.4705, 11.4746, 11.4791],
4142
           grad_fn=<Unique2Backward0>)
4143 masks_dr unique: tensor([-7.5413, -7.5103, -7.5085, ..., 11.4705, 11.4746, 11.4791],
4144
           grad_fn=<Unique2Backward0>)
4145 print_dice: 0.4224126636981964, print_iou: 0.26775863766670227
4146 Epoch 22/499: 29%| 46/160 [07:24<18:07, 9.54s/it]masks_dr unique: tensor([-7.
    5962, -7.5892, -7.5708, ..., 11.5312, 11.5340, 11.5368],
           grad_fn=<Unique2Backward0>)
4148 masks_dr unique: tensor([-7.5962, -7.5892, -7.5708, ..., 11.5312, 11.5340, 11.5368],
4149
           grad_fn=<Unique2Backward0>)
4150 print_dice: 0.5923528075218201,
                                     print_iou: 0.4208105802536011
4151 Epoch 22/499: 29%
                                 47/160 [07:34<17:56, 9.53s/it]masks_dr unique: tensor([-7.
    6034, -7.5830, -7.5692, ..., 11.9887, 11.9902, 11.9940],
4152
           grad fn=<Unique2Backward0>)
4153 masks dr unique: tensor([-7.6034, -7.5830, -7.5692, ..., 11.9887, 11.9902, 11.9940],
           grad_fn=<Unique2Backward0>)
4154
4155 Epoch 22/499: 30%
                                 48/160 [07:43<17:47, 9.53s/it]print_dice: 0.5056293606758118
        print_iou: 0.338356077671051
4156 masks_dr unique: tensor([-7.7460, -7.7408, -7.7239, ..., 12.9956, 12.9973, 12.9980],
4157
           grad fn=<Unique2Backward0>)
4158 masks_dr unique: tensor([-7.7460, -7.7408, -7.7239, ..., 12.9956, 12.9973, 12.9980],
           grad fn=<Unique2Backward0>)
4159
```

```
49/160 [07:53<17:43, 9.58s/it]print dice: 0.5070822834968567
4160 Epoch 22/499: 31%
        print_iou: 0.33965858817100525
4161 masks_dr unique: tensor([-7.5420, -7.5143, -7.5057, ..., 11.8588, 11.8654, 11.8690],
           grad_fn=<Unique2Backward0>)
4163 masks_dr unique: tensor([-7.5420, -7.5143, -7.5057, ..., 11.8588, 11.8654, 11.8690],
           grad_fn=<Unique2Backward0>)
4165 Epoch 22/499: 31%|■ ■
                                 50/160 [08:03<17:35, 9.59s/it]print_dice: 0.
    49823427200317383, print_iou: 0.33176565170288086
4166 masks_dr unique: tensor([-7.8611, -7.8506, -7.8339, ..., 12.1461, 12.1522, 12.1558],
           grad fn=<Unique2Backward0>)
4167
4168 masks_dr unique: tensor([-7.8611, -7.8506, -7.8339, ..., 12.1461, 12.1522, 12.1558],
           grad_fn=<Unique2Backward0>)
4169
4170 Epoch 22/499: 32%
                                 51/160 [08:12<17:30, 9.64s/it]print_dice: 0.4365573227405548
        print iou: 0.27922821044921875
4171 masks_dr unique: tensor([-7.5446, -7.5369, -7.5250, ..., 11.8801, 11.8862, 11.8920],
           grad fn=<Unique2Backward0>)
4173 masks_dr unique: tensor([-7.5446, -7.5369, -7.5250, ..., 11.8801, 11.8862, 11.8920],
           grad_fn=<Unique2Backward0>)
4174
4175 Epoch 22/499: 32%
                                 | 52/160 [08:22<17:17, 9.61s/it]print_dice: 0.4854237735271454
        print_iou: 0.3205013573169708
4176 masks_dr unique: tensor([-7.6049, -7.5979, -7.5795, ..., 11.5251, 11.5276, 11.5302],
4177
           grad_fn=<Unique2Backward0>)
4178 masks_dr unique: tensor([-7.6049, -7.5979, -7.5795, ..., 11.5251, 11.5276, 11.5302],
4179
           grad fn=<Unique2Backward0>)
4180 Epoch 22/499: 33%
                                 53/160 [08:32<17:04, 9.57s/it]print_dice: 0.482168585062027
        print_iou: 0.3176693916320801
4181 masks_dr unique: tensor([-7.7852, -7.7618, -7.7536, ..., 12.0813, 12.0831, 12.0845],
           grad_fn=<Unique2Backward0>)
4183 masks dr unique: tensor([-7.7852, -7.7618, -7.7536, ..., 12.0813, 12.0831, 12.0845],
           grad fn=<Unique2Backward0>)
4184
4185 Epoch 22/499: 34%
                                 54/160 [08:41<16:56, 9.59s/it]print_dice: 0.5490121245384216
        print iou: 0.3783712685108185
4186 masks_dr unique: tensor([-7.7165, -7.7136, -7.7010, ..., 12.9972, 13.0010, 13.0011],
           grad fn=<Unique2Backward0>)
4187
4188 masks_dr unique: tensor([-7.7165, -7.7136, -7.7010, ..., 12.9972, 13.0010, 13.0011],
           grad_fn=<Unique2Backward0>)
4190 Epoch 22/499: 34%
                                 | 55/160 [08:51<16:48, 9.60s/it]print_dice: 0.
    47656652331352234, print_iou: 0.31282398104667664
4191 masks_dr unique: tensor([-7.6081, -7.6012, -7.5829, ..., 11.5261, 11.5282, 11.5286],
           grad fn=<Unique2Backward0>)
4192
4193 masks_dr unique: tensor([-7.6081, -7.6012, -7.5829, ..., 11.5261, 11.5282, 11.5286],
           grad_fn=<Unique2Backward0>)
4195 print_dice: 0.5139566659927368,
                                      print_iou: 0.3458557426929474
4196 Epoch 22/499: 35%
                                | 56/160 [09:00<16:41, 9.63s/it]masks_dr unique: tensor([-7.
    1794, -7.1780, -7.1499, ..., 12.0490, 12.0568, 12.0611],
4197
           grad_fn=<Unique2Backward0>)
4198 masks_dr unique: tensor([-7.1794, -7.1780, -7.1499, ..., 12.0490, 12.0568, 12.0611],
           grad_fn=<Unique2Backward0>)
4199
4200 Epoch 22/499: 36%
                                 | 57/160 [09:10<16:29, 9.61s/it]print_dice: 0.4738803803920746
        print iou: 0.3105132579803467
4201 masks_dr unique: tensor([-7.5713, -7.5674, -7.5534, ..., 11.4656, 11.4720, 11.4761],
4202
           grad_fn=<Unique2Backward0>)
4203 masks_dr unique: tensor([-7.5713, -7.5674, -7.5534, ..., 11.4656, 11.4720, 11.4761],
           grad_fn=<Unique2Backward0>)
4204
4205 Epoch 22/499: 36%
                                 58/160 [09:20<16:18, 9.60s/it]print dice: 0.6068097949028015
        print_iou: 0.435554176568985
4206 masks_dr unique: tensor([-7.9662, -7.9628, -7.9462, ..., 12.9421, 12.9450, 12.9459],
4207
           grad_fn=<Unique2Backward0>)
4208 masks_dr unique: tensor([-7.9662, -7.9628, -7.9462, ..., 12.9421, 12.9450, 12.9459],
           grad fn=<Unique2Backward0>)
4209
4210 Epoch 22/499: 37%
                                 59/160 [09:29<16:14, 9.65s/it]print_dice: 0.5569369792938232
        print_iou: 0.3859408497810364
4211 masks_dr unique: tensor([-7.6117, -7.6050, -7.5868, ..., 11.5243, 11.5252, 11.5274],
           grad_fn=<Unique2Backward0>)
4212
4213 masks dr unique: tensor([-7.6117, -7.6050, -7.5868, ..., 11.5243, 11.5252, 11.5274],
           grad fn=<Unique2Backward0>)
4214
4215 Epoch 22/499: 38%
                                 60/160 [09:39<16:05, 9.65s/it]print_dice: 0.5322529673576355
        print_iou: 0.3626326322555542
4216 masks_dr unique: tensor([-7.5964, -7.5823, -7.5818, ..., 12.3896, 12.3910, 12.3921],
```

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4217
           grad fn=<Unique2Backward0>)
4218 masks_dr unique: tensor([-7.5964, -7.5823, -7.5818, ..., 12.3896, 12.3910, 12.3921],
           grad fn=<Unique2Backward0>)
4220 print dice: 0.41495051980018616,
                                      print_iou: 0.2617902457714081
4221 Epoch 22/499: 38%
    1126, -7.1079, -7.0932, ..., 12.1299, 12.1314, 12.1317],
           grad_fn=<Unique2Backward0>)
4222
4223 masks_dr unique: tensor([-7.1126, -7.1079, -7.0932, ..., 12.1299, 12.1314, 12.1317],
4224
           grad_fn=<Unique2Backward0>)
4225 Epoch 22/499: 39%
                                62/160 [09:58<15:37, 9.57s/it]print_dice: 0.6088619828224182
        print iou: 0.4376718997955322
4226 masks_dr unique: tensor([-8.0391, -8.0202, -8.0110, ..., 11.9003, 11.9059, 11.9105],
           grad fn=<Unique2Backward0>)
4227
4228 masks dr unique: tensor([-8.0391, -8.0202, -8.0110, ..., 11.9003, 11.9059, 11.9105],
4229
           grad fn=<Unique2Backward0>)
4230 Epoch 22/499: 39%
                                63/160 [10:08<15:34, 9.63s/it]print_dice: 0.5741034746170044
        print_iou: 0.4026263356208801
4231 masks_dr unique: tensor([-7.3526, -7.3491, -7.3270, ..., 11.3393, 11.3463, 11.3503],
4232
           grad_fn=<Unique2Backward0>)
4233 masks_dr unique: tensor([-7.3526, -7.3491, -7.3270, ..., 11.3393, 11.3463, 11.3503],
           grad_fn=<Unique2Backward0>)
4234
4235 print_dice: 0.5137523412704468, print_iou: 0.34567075967788696
4236 Epoch 22/499: 40%| 64/160 [10:17<15:23, 9.62s/it]masks_dr unique: tensor([-7.
    6165, -7.6097, -7.5913, ..., 11.5303, 11.5326, 11.5349],
4237
           grad_fn=<Unique2Backward0>)
4238 masks_dr unique: tensor([-7.6165, -7.6097, -7.5913, ..., 11.5303, 11.5326, 11.5349],
           grad fn=<Unique2Backward0>)
4239
4240 print dice: 0.5883820056915283, print iou: 0.4168139398097992
4241 Epoch 22/499: 41% 65/160 [10:27<15:12, 9.60s/it] masks_dr unique: tensor([-7.
    6165, -7.6097, -7.5913, ..., 11.5266, 11.5278, 11.5300],
4242
           grad_fn=<Unique2Backward0>)
4243 masks_dr unique: tensor([-7.6165, -7.6097, -7.5913, ..., 11.5266, 11.5278, 11.5300],
           grad_fn=<Unique2Backward0>)
                                66/160 [10:36<15:01, 9.59s/it]print_dice: 0.5282166600227356
4245 Epoch 22/499: 41%
        print_iou: 0.3588956594467163
4246 masks_dr unique: tensor([-7.2307, -7.2065, -7.2018, ..., 12.5735, 12.5754, 12.5757],
           grad_fn=<Unique2Backward0>)
4247
4248 masks dr unique: tensor([-7.2307, -7.2065, -7.2018, ..., 12.5735, 12.5754, 12.5757],
           grad_fn=<Unique2Backward0>)
4250 print dice: 0.4926520884037018, print_iou: 0.32683369517326355
4251 Epoch 22/499: 42%
                                | 67/160 [10:46<14:52, 9.59s/it]masks_dr unique: tensor([-7.
    6170, -7.6102, -7.5918, ..., 11.5296, 11.5319, 11.5324],
4252
           grad_fn=<Unique2Backward0>)
4253 masks_dr unique: tensor([-7.6170, -7.6102, -7.5918, ..., 11.5296, 11.5319, 11.5324],
4254
           grad_fn=<Unique2Backward0>)
                                | 68/160 [10:56<14:44, 9.61s/it]print_dice: 0.4741475284099579
4255 Epoch 22/499: 42%
        print_iou: 0.31074270606040955
4256 masks_dr unique: tensor([-7.7041, -7.6928, -7.6814, ..., 12.6761, 12.6791, 12.6794],
4257
           grad_fn=<Unique2Backward0>)
4258 masks_dr unique: tensor([-7.7041, -7.6928, -7.6814, ..., 12.6761, 12.6791, 12.6794],
4259
           grad_fn=<Unique2Backward0>)
4260 Epoch 22/499: 43%
                                 69/160 [11:05<14:35, 9.62s/it]print_dice: 0.4618905186653137
        print iou: 0.3002975583076477
4261 masks_dr unique: tensor([-7.3392, -7.3216, -7.3193, ..., 11.5820, 11.5889, 11.5920],
           grad_fn=<Unique2Backward0>)
4263 masks_dr unique: tensor([-7.3392, -7.3216, -7.3193, ..., 11.5820, 11.5889, 11.5920],
4264
           grad_fn=<Unique2Backward0>)
4265 print_dice: 0.476687490940094,
                                    print_iou: 0.3129282295703888
                                 | 70/160 [11:15<14:21, 9.57s/it]masks_dr unique: tensor([-7.
4266 Epoch 22/499: 44%
    7418, -7.7230, -7.7182, ..., 11.6995, 11.7032, 11.7091],
4267
           grad_fn=<Unique2Backward0>)
4268 masks dr unique: tensor([-7.7418, -7.7230, -7.7182, ..., 11.6995, 11.7032, 11.7091],
           grad_fn=<Unique2Backward0>)
4269
4270 Epoch 22/499: 44%
                                 71/160 [11:24<14:13, 9.58s/it]print_dice: 0.5727803707122803
        print_iou: 0.4013260304927826
4271 masks_dr unique: tensor([-7.3935, -7.3782, -7.3696, ..., 12.0354, 12.0363, 12.0407],
           grad fn=<Unique2Backward0>)
4272
4273 masks_dr unique: tensor([-7.3935, -7.3782, -7.3696, ..., 12.0354, 12.0363, 12.0407],
           grad fn=<Unique2Backward0>)
4274
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4275 print dice: 0.5209131836891174, print iou: 0.3521856665611267
4276 Epoch 22/499: 45% 72/160 [11:34<13:59, 9.54s/it]masks_dr unique: tensor([-7.
    6172, -7.6104, -7.5920, ..., 11.5338, 11.5349, 11.5360],
4277
           grad fn=<Unique2Backward0>)
4278 masks_dr unique: tensor([-7.6172, -7.6104, -7.5920, ..., 11.5338, 11.5349, 11.5360],
           grad_fn=<Unique2Backward0>)
4280 print_dice: 0.5562419295310974, print_iou: 0.38527363538742065
4281 Epoch 22/499: 46%
    6163, -7.6095, -7.5911, ..., 11.5335, 11.5359, 11.5382],
4282
           grad fn=<Unique2Backward0>)
4283 masks_dr unique: tensor([-7.6163, -7.6095, -7.5911, ..., 11.5335, 11.5359, 11.5382],
           grad_fn=<Unique2Backward0>)
4284
4285 Epoch 22/499: 46%
                                74/160 [11:53<13:48, 9.63s/it]print_dice: 0.4382554590702057
        print iou: 0.28061917424201965
4286 masks_dr unique: tensor([-7.4322, -7.4308, -7.4196, ..., 12.9115, 12.9121, 12.9129],
           grad_fn=<Unique2Backward0>)
4288 masks_dr unique: tensor([-7.4322, -7.4308, -7.4196, ..., 12.9115, 12.9121, 12.9129],
4289
           grad_fn=<Unique2Backward0>)
                                | 75/160 [12:03<13:38, 9.63s/it]print_dice: 0.6088959574699402
4290 Epoch 22/499: 47%
        print_iou: 0.43770697712898254
4291 masks_dr unique: tensor([-7.6167, -7.6100, -7.5859, ..., 11.6147, 11.6155, 11.6160],
4292
           grad_fn=<Unique2Backward0>)
4293 masks_dr unique: tensor([-7.6167, -7.6100, -7.5859, ..., 11.6147, 11.6155, 11.6160],
4294
           grad fn=<Unique2Backward0>)
4295 Epoch 22/499: 48%
                                76/160 [12:12<13:23, 9.57s/it]print_dice: 0.5352920293807983
        print iou: 0.3654598891735077
4296 masks dr unique: tensor([-7.8002, -7.7887, -7.7879, ..., 12.1084, 12.1134, 12.1144],
           grad_fn=<Unique2Backward0>)
4297
4298 masks_dr unique: tensor([-7.8002, -7.7887, -7.7879, ..., 12.1084, 12.1134, 12.1144],
4299
           grad fn=<Unique2Backward0>)
4300 print dice: 0.5018056035041809, print_iou: 0.33494025468826294
4301 Epoch 22/499: 48% 77/160 [12:22<13:16, 9.60s/it]masks_dr unique: tensor([-7.
    6698, -7.6641, -7.6492, ..., 12.4670, 12.4689, 12.4690],
4302
           grad fn=<Unique2Backward0>)
4303 masks_dr unique: tensor([-7.6698, -7.6641, -7.6492, ..., 12.4670, 12.4689, 12.4690],
           grad_fn=<Unique2Backward0>)
4305 Epoch 22/499: 49%
                                78/160 [12:32<13:08, 9.62s/it]print_dice: 0.5995363593101501
        print_iou: 0.4280984699726105
4306 masks_dr unique: tensor([-7.6209, -7.6141, -7.5957, ..., 11.5393, 11.5416, 11.5439],
4307
           grad fn=<Unique2Backward0>)
4308 masks_dr unique: tensor([-7.6209, -7.6141, -7.5957, ..., 11.5393, 11.5416, 11.5439],
           grad_fn=<Unique2Backward0>)
4310 print_dice: 0.5690425634384155, print_iou: 0.3976656198501587
4311 Epoch 22/499: 49%| 79/160 [12:41<13:00, 9.63s/it]masks_dr unique: tensor([-7.
    6276, -7.6267, -7.6260, ..., 12.8378, 12.8393, 12.8406],
4312
           grad_fn=<Unique2Backward0>)
4313 masks_dr unique: tensor([-7.6276, -7.6267, -7.6260, ..., 12.8378, 12.8393, 12.8406],
4314
           grad_fn=<Unique2Backward0>)
4315 print_dice: 0.5407145619392395, print_iou: 0.3705337941646576
4316 Epoch 22/499: 50%| | 80/160 [12:51<12:49, 9.62s/it]masks_dr unique: tensor([-8.
    0187, -8.0155, -8.0131, ..., 12.9093, 12.9122, 12.9153],
4317
           grad_fn=<Unique2Backward0>)
4318 masks_dr unique: tensor([-8.0187, -8.0155, -8.0131, ..., 12.9093, 12.9122, 12.9153],
           grad fn=<Unique2Backward0>)
4319
4320 Epoch 22/499: 51%
                                81/160 [13:01<12:40, 9.63s/it]print dice: 0.4869519770145416
        print_iou: 0.32183510065078735
4321 masks_dr unique: tensor([-7.6655, -7.6531, -7.6434, ..., 12.0635, 12.0691, 12.0735],
           grad_fn=<Unique2Backward0>)
4322
4323 masks_dr unique: tensor([-7.6655, -7.6531, -7.6434, ..., 12.0635, 12.0691, 12.0735],
           grad fn=<Unique2Backward0>)
4324
4325 Epoch 22/499: 51%
                                82/160 [13:10<12:31, 9.63s/it]print_dice: 0.541864275932312
        print iou: 0.3716144263744354
4326 masks_dr unique: tensor([-7.6162, -7.6097, -7.5916, ..., 11.5480, 11.5506, 11.5532],
           grad_fn=<Unique2Backward0>)
4327
4328 masks_dr unique: tensor([-7.6162, -7.6097, -7.5916, ..., 11.5480, 11.5506, 11.5532],
           grad fn=<Unique2Backward0>)
4329
4330 Epoch 22/499: 52%
                                83/160 [13:20<12:24, 9.67s/it]print_dice: 0.5065585970878601
        print_iou: 0.339188814163208
4331 masks_dr unique: tensor([-7.5552, -7.5289, -7.5215, ..., 11.7371, 11.7433, 11.7464],
```

```
grad fn=<Unique2Backward0>)
4333 masks_dr unique: tensor([-7.5552, -7.5289, -7.5215, ..., 11.7371, 11.7433, 11.7464],
           grad fn=<Unique2Backward0>)
4335 print dice: 0.5378132462501526,
                                     print iou: 0.3678143620491028
4336 Epoch 22/499: 52%| | 84/160 [13:30<12:16, 9.69s/it]masks_dr unique: tensor([-7.
    6912, -7.6772, -7.6691, ..., 11.9936, 11.9937, 11.9973],
           grad_fn=<Unique2Backward0>)
4337
4338 masks_dr unique: tensor([-7.6912, -7.6772, -7.6691, ..., 11.9936, 11.9937, 11.9973],
           grad_fn=<Unique2Backward0>)
4340 print_dice: 0.5564563274383545, print_iou: 0.3854793906211853
4341 Epoch 22/499: 53% | 85/160 [13:39<12:07, 9.70s/it]masks dr unique: tensor([-7.
    4201, -7.4146, -7.4144, ..., 12.6348, 12.6368, 12.6380],
4342
           grad_fn=<Unique2Backward0>)
4343 masks dr unique: tensor([-7.4201, -7.4146, -7.4144, ..., 12.6348, 12.6368, 12.6380],
4344
           grad fn=<Unique2Backward0>)
4345 print dice: 0.637484610080719, print iou: 0.46787333488464355
4346 Epoch 22/499: 54%| | 86/160 [13:49<11:57, 9.69s/it]masks_dr unique: tensor([-7.
    6146, -7.6082, -7.5903, ..., 11.5503, 11.5531, 11.5559],
4347
           grad_fn=<Unique2Backward0>)
4348 masks_dr unique: tensor([-7.6146, -7.6082, -7.5903, ..., 11.5503, 11.5531, 11.5559],
           grad_fn=<Unique2Backward0>)
4349
4350 Epoch 22/499: 54%
                                 87/160 [13:59<11:45, 9.67s/it]print_dice: 0.5062260031700134
        print_iou: 0.33889061212539673
4351 masks dr unique: tensor([-7.3054, -7.2803, -7.2789, ..., 11.6971, 11.6992, 11.7006],
           grad fn=<Unique2Backward0>)
4353 masks_dr unique: tensor([-7.3054, -7.2803, -7.2789, ..., 11.6971, 11.6992, 11.7006],
           grad fn=<Unique2Backward0>)
4354
                                | 88/160 [14:08<11:35, 9.65s/it]print dice: 0.
4355 Epoch 22/499: 55%
    41858428716659546, print iou: 0.2646895945072174
4356 masks dr unique: tensor([-7.5191, -7.5160, -7.4984, ..., 12.6307, 12.6345, 12.6350],
           grad_fn=<Unique2Backward0>)
4358 masks_dr unique: tensor([-7.5191, -7.5160, -7.4984, ..., 12.6307, 12.6345, 12.6350],
           grad fn=<Unique2Backward0>)
4360 print_dice: 0.5441818833351135, print_iou: 0.3737979829311371
4361 Epoch 22/499: 56%| | 89/160 [14:18<11:20, 9.58s/it]masks_dr unique: tensor([-7.
    6658, -7.6416, -7.6353, ..., 11.9646, 11.9668, 11.9700],
           grad_fn=<Unique2Backward0>)
4362
4363 masks dr unique: tensor([-7.6658, -7.6416, -7.6353, ..., 11.9646, 11.9668, 11.9700],
           grad_fn=<Unique2Backward0>)
                                 90/160 [14:27<11:08, 9.55s/it]print_dice: 0.5094599723815918
4365 Epoch 22/499: 56%| 311 18 18 18
        print_iou: 0.34179556369781494
4366 masks_dr unique: tensor([-7.5429, -7.5413, -7.5168, ..., 12.0961, 12.0996, 12.1048],
           grad_fn=<Unique2Backward0>)
4368 masks_dr unique: tensor([-7.5429, -7.5413, -7.5168, ..., 12.0961, 12.0996, 12.1048],
4369
           grad_fn=<Unique2Backward0>)
4370 print_dice: 0.5494023561477661, print_iou: 0.3787420690059662
4371 Epoch 22/499: 57%| 91/160 [14:37<10:59, 9.55s/it]masks_dr unique: tensor([-7.
    5158, -7.5082, -7.4907, ..., 12.0223, 12.0283, 12.0326],
4372
           grad_fn=<Unique2Backward0>)
4373 masks_dr unique: tensor([-7.5158, -7.5082, -7.4907, ..., 12.0223, 12.0283, 12.0326],
4374
           grad_fn=<Unique2Backward0>)
                                 92/160 [14:47<10:52, 9.60s/it]print_dice: 0.5748042464256287
4375 Epoch 22/499: 57%
        print_iou: 0.4033159911632538
4376 masks_dr unique: tensor([-7.6154, -7.6090, -7.5912, ..., 11.5498, 11.5523, 11.5549],
           grad_fn=<Unique2Backward0>)
4378 masks_dr unique: tensor([-7.6154, -7.6090, -7.5912, ..., 11.5498, 11.5523, 11.5549],
           grad fn=<Unique2Backward0>)
4379
4380 print_dice: 0.5762483477592468,
                                      print_iou: 0.4047393798828125
4381 Epoch 22/499: 58%
                                 93/160 [14:56<10:44, 9.62s/it]masks_dr unique: tensor([-7.
    7206, -7.7070, -7.7055, ..., 12.9321, 12.9327, 12.9366],
4382
           grad fn=<Unique2Backward0>)
4383 masks dr unique: tensor([-7.7206, -7.7070, -7.7055, ..., 12.9321, 12.9327, 12.9366],
           grad_fn=<Unique2Backward0>)
4384
                                 | 94/160 [15:06<10:35, 9.62s/it]print_dice: 0.
4385 Epoch 22/499: 59%
                        print iou: 0.3020016551017761
    46390363574028015,
4386 masks_dr unique: tensor([-7.8201, -7.8063, -7.8063, ..., 12.8708, 12.8736, 12.8743],
4387
           grad fn=<Unique2Backward0>)
4388 masks dr unique: tensor([-7.8201, -7.8063, -7.8063, ..., 12.8708, 12.8736, 12.8743],
           grad fn=<Unique2Backward0>)
4389
```

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4390 print dice: 0.564048171043396, print iou: 0.3928043842315674
4391 Epoch 22/499: 59% | 95/160 [15:15<10:24, 9.61s/it]masks_dr unique: tensor([-7.
    6137, -7.6073, -7.5896, ..., 11.5523, 11.5549, 11.5576],
           grad fn=<Unique2Backward0>)
4392
4393 masks_dr unique: tensor([-7.6137, -7.6073, -7.5896, ..., 11.5523, 11.5549, 11.5576],
           grad fn=<Unique2Backward0>)
                                 96/160 [15:25<10:15, 9.62s/it]print_dice: 0.5362673401832581
4395 Epoch 22/499: 60%
        print_iou: 0.36636972427368164
4396 masks_dr unique: tensor([-7.4878, -7.4679, -7.4582, ..., 11.7687, 11.7732, 11.7783],
           grad fn=<Unique2Backward0>)
4397
4398 masks dr unique: tensor([-7.4878, -7.4679, -7.4582, ..., 11.7687, 11.7732, 11.7783],
           grad_fn=<Unique2Backward0>)
4399
4400 Epoch 22/499: 61%
                              97/160 [15:35<10:08, 9.66s/it]print_dice: 0.5946716666221619
        print iou: 0.4231549799442291
4401 masks_dr unique: tensor([-7.9635, -7.9585, -7.9527, ..., 12.6629, 12.6641, 12.6642],
           grad_fn=<Unique2Backward0>)
4403 masks_dr unique: tensor([-7.9635, -7.9585, -7.9527, ..., 12.6629, 12.6641, 12.6642],
           grad_fn=<Unique2Backward0>)
                                 98/160 [15:45<10:01, 9.70s/it]print_dice: 0.4995487928390503
4405 Epoch 22/499: 61%
        print_iou: 0.33293238282203674
4406 masks_dr unique: tensor([-7.7432, -7.7337, -7.7246, ..., 13.0725, 13.0752, 13.0753],
           grad_fn=<Unique2Backward0>)
4408 masks dr unique: tensor([-7.7432, -7.7337, -7.7246, ..., 13.0725, 13.0752, 13.0753],
           grad_fn=<Unique2Backward0>)
4410 print_dice: 0.5787832736968994, print_iou: 0.40724489092826843
4411 Epoch 22/499: 62%| 99/160 [15:54<09:45, 9.60s/it]masks_dr unique: tensor([-7.
    5564, -7.5564, -7.5465, ..., 12.8057, 12.8075, 12.8085],
4412
           grad_fn=<Unique2Backward0>)
4413 masks_dr unique: tensor([-7.5564, -7.5564, -7.5465, ..., 12.8057, 12.8075, 12.8085],
           grad fn=<Unique2Backward0>)
                                | 100/160 [16:03<09:32, 9.55s/it]print_dice: 0.502452552318573
4415 Epoch 22/499: 62%
        print_iou: 0.33551695942878723
4416 masks_dr unique: tensor([-7.6138, -7.6075, -7.5897, ..., 11.5548, 11.5574, 11.5601],
4417
           grad_fn=<Unique2Backward0>)
4418 masks dr unique: tensor([-7.6138, -7.6075, -7.5897, ..., 11.5548, 11.5574, 11.5601],
           grad_fn=<Unique2Backward0>)
4420 Epoch 22/499: 63%
                                 | 101/160 [16:13<09:25, 9.59s/it]print_dice: 0.
    6020998358726501, print_iou: 0.4307173192501068
4421
      [100/160] eta: 0:09:38
                                time: 9.6228 data: 0.0004
4422 masks_dr unique: tensor([-7.6128, -7.6064, -7.5887, ..., 11.5496, 11.5521, 11.5546],
4423
           grad_fn=<Unique2Backward0>)
4424 masks_dr unique: tensor([-7.6128, -7.6064, -7.5887, ..., 11.5496, 11.5521, 11.5546],
4425
           grad_fn=<Unique2Backward0>)
4426 Epoch 22/499: 64%
                                | 102/160 [16:23<09:15, 9.57s/it]print_dice: 0.
    5221238732337952, print_iou: 0.35329335927963257
4427 masks_dr unique: tensor([-7.4825, -7.4531, -7.4520, ..., 12.0393, 12.0442, 12.0496],
           grad_fn=<Unique2Backward0>)
4428
4429 masks_dr unique: tensor([-7.4825, -7.4531, -7.4520, ..., 12.0393, 12.0442, 12.0496],
4430
           grad_fn=<Unique2Backward0>)
4431 print dice: 0.48623770475387573, print iou: 0.32121139764785767
4432 Epoch 22/499: 64%| 103/160 [16:32<09:04, 9.55s/it]masks_dr unique: tensor([-7.
    6158, -7.6094, -7.5917, ..., 11.5503, 11.5529, 11.5554],
4433
           grad_fn=<Unique2Backward0>)
4434 masks_dr unique: tensor([-7.6158, -7.6094, -7.5917, ..., 11.5503, 11.5529, 11.5554],
           grad_fn=<Unique2Backward0>)
4436 Epoch 22/499: 65%
                             | 104/160 [16:42<08:55, 9.56s/it]print_dice: 0.
    5387187004089355, print_iou: 0.36866188049316406
4437 masks dr unique: tensor([-8.0855, -8.0654, -8.0614, ..., 12.7150, 12.7207, 12.7265],
           grad fn=<Unique2Backward0>)
4439 masks_dr unique: tensor([-8.0855, -8.0654, -8.0614, ..., 12.7150, 12.7207, 12.7265],
           grad_fn=<Unique2Backward0>)
4440
4441 print_dice: 0.5393169522285461, print_iou: 0.3692224323749542
                                 | 105/160 [16:51<08:44, 9.53s/it]masks_dr unique: tensor([-7.
4442 Epoch 22/499: 66%
    5588, -7.5553, -7.5508, ..., 12.7402, 12.7414, 12.7450],
4443
           grad_fn=<Unique2Backward0>)
4444 masks_dr unique: tensor([-7.5588, -7.5553, -7.5508, ..., 12.7402, 12.7414, 12.7450],
4445
           grad fn=<Unique2Backward0>)
4446 Epoch 22/499: 66%
                                 | 106/160 [17:01<08:33, 9.50s/it]print_dice: 0.541955292224884
        print iou: 0.3717000484466553
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4447 masks dr unique: tensor([-7.6584, -7.6575, -7.6510, ..., 11.9331, 11.9343, 11.9353],
           grad_fn=<Unique2Backward0>)
4449 masks dr unique: tensor([-7.6584, -7.6575, -7.6510, ..., 11.9331, 11.9343, 11.9353],
4450
           grad fn=<Unique2Backward0>)
4451 print dice: 0.5325865745544434, print iou: 0.3629424273967743
4452 Epoch 22/499: 67% | 107/160 [17:10<08:25, 9.54s/it] masks_dr unique: tensor([-7.
    6157, -7.6092, -7.5914, ..., 11.5499, 11.5521, 11.5544],
4453
           grad_fn=<Unique2Backward0>)
4454 masks_dr unique: tensor([-7.6157, -7.6092, -7.5914, ..., 11.5499, 11.5521, 11.5544],
4455
           grad fn=<Unique2Backward0>)
4456 print_dice: 0.5842136740684509, print_iou: 0.41264253854751587
4457 Epoch 22/499: 68% 108/160 [17:20<08:15, 9.53s/it]masks_dr unique: tensor([-7.
    6165, -7.6101, -7.5922, ..., 11.5496, 11.5502, 11.5525],
4458
           grad fn=<Unique2Backward0>)
4459 masks_dr unique: tensor([-7.6165, -7.6101, -7.5922, ..., 11.5496, 11.5502, 11.5525],
           grad_fn=<Unique2Backward0>)
4461 Epoch 22/499: 68%| | 109/160 [17:29<08:07, 9.56s/it]print_dice: 0.
    6206675171852112, print_iou: 0.44997674226760864
4462 masks_dr unique: tensor([-7.5518, -7.5477, -7.5343, ..., 12.9589, 12.9594, 12.9625],
           grad_fn=<Unique2Backward0>)
4464 masks_dr unique: tensor([-7.5518, -7.5477, -7.5343, ..., 12.9589, 12.9594, 12.9625],
4465
           grad_fn=<Unique2Backward0>)
4466 Epoch 22/499: 69% | 110/160 [17:39<07:59, 9.58s/it]print_dice: 0.
    4419971704483032, print_iou: 0.28369471430778503
4467 masks_dr unique: tensor([-7.3409, -7.3311, -7.3285, ..., 11.6554, 11.6602, 11.6646],
           grad fn=<Unique2Backward0>)
4468
4469 masks dr unique: tensor([-7.3409, -7.3311, -7.3285, ..., 11.6554, 11.6602, 11.6646],
4470
           grad fn=<Unique2Backward0>)
4471 print dice: 0.4728854298591614, print iou: 0.3096594214439392
4472 Epoch 22/499: 69%| | 111/160 [17:49<07:50, 9.60s/it]masks_dr unique: tensor([-7.
    6446, -7.6366, -7.6286, ..., 12.6614, 12.6638, 12.6644],
4473
           grad_fn=<Unique2Backward0>)
4474 masks dr unique: tensor([-7.6446, -7.6366, -7.6286, ..., 12.6614, 12.6638, 12.6644],
4475
           grad fn=<Unique2Backward0>)
4476 Epoch 22/499: 70%| | 112/160 [17:58<07:38, 9.56s/it]print_dice: 0.
    5414654612541199, print_iou: 0.37123942375183105
4477 masks_dr unique: tensor([-7.6148, -7.6083, -7.5905, ..., 11.5486, 11.5503, 11.5508],
           grad_fn=<Unique2Backward0>)
4478
4479 masks_dr unique: tensor([-7.6148, -7.6083, -7.5905, ..., 11.5486, 11.5503, 11.5508],
4480
           grad fn=<Unique2Backward0>)
4481 print_dice: 0.5261515378952026, print_iou: 0.35699158906936646
4482 Epoch 22/499: 71% | 113/160 [18:08<07:31, 9.61s/it]masks_dr unique: tensor([-7.
    6014, -7.5794, -7.5682, ..., 11.9943, 11.9989, 12.0047],
           grad fn=<Unique2Backward0>)
4484 masks_dr unique: tensor([-7.6014, -7.5794, -7.5682, ..., 11.9943, 11.9989, 12.0047],
           grad_fn=<Unique2Backward0>)
4486 print_dice: 0.512607216835022, print_iou: 0.3446347117424011
4487 Epoch 22/499: 71%| 114/160 [18:18<07:23, 9.63s/it]masks_dr unique: tensor([-7.
    6154, -7.6089, -7.5911, ..., 11.5488, 11.5504, 11.5510],
4488
           grad_fn=<Unique2Backward0>)
4489 masks_dr unique: tensor([-7.6154, -7.6089, -7.5911, ..., 11.5488, 11.5504, 11.5510],
           grad fn=<Unique2Backward0>)
4490
4491 Epoch 22/499: 72%| | 115/160 [18:27<07:14, 9.66s/it]print_dice: 0.
    5341044664382935, print_iou: 0.3643537163734436
4492 masks_dr unique: tensor([-7.5903, -7.5879, -7.5854, ..., 12.8550, 12.8563, 12.8594],
4493
           grad_fn=<Unique2Backward0>)
4494 masks_dr unique: tensor([-7.5903, -7.5879, -7.5854, ..., 12.8550, 12.8563, 12.8594],
           grad_fn=<Unique2Backward0>)
4496 print dice: 0.5918281674385071, print_iou: 0.42028123140335083
4497 Epoch 22/499: 72%
                        116/160 [18:37<07:03, 9.63s/it]masks_dr unique: tensor([-7.
    5950, -7.5649, -7.5648, ..., 11.7420, 11.7452, 11.7519],
4498
           grad_fn=<Unique2Backward0>)
4499 masks_dr unique: tensor([-7.5950, -7.5649, -7.5648, ..., 11.7420, 11.7452, 11.7519],
           grad_fn=<Unique2Backward0>)
4500
4501 Epoch 22/499: 73% | 117/160 [18:47<06:55, 9.66s/it]print_dice: 0.
    5425677299499512,
                       print_iou: 0.3722764849662781
4502 masks_dr unique: tensor([-7.5044, -7.5041, -7.4936, ..., 11.8952, 11.9001, 11.9033],
           grad_fn=<Unique2Backward0>)
4503
4504 masks_dr unique: tensor([-7.5044, -7.5041, -7.4936, ..., 11.8952, 11.9001, 11.9033],
```

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grad fn=<Unique2Backward0>)
4505
4506 Epoch 22/499: 74%| | 118/160 [18:56<06:43, 9.62s/it]print_dice: 0.
    4738815128803253, print_iou: 0.3105142414569855
4507 masks_dr unique: tensor([-7.6192, -7.6128, -7.5950, ..., 11.5486, 11.5507, 11.5520],
           grad_fn=<Unique2Backward0>)
4509 masks_dr unique: tensor([-7.6192, -7.6128, -7.5950, ..., 11.5486, 11.5507, 11.5520],
           grad fn=<Unique2Backward0>)
4510
4511 Epoch 22/499: 74% | 119/160 [19:06<06:34, 9.62s/it]print_dice: 0.
    49347615242004395, print_iou: 0.3275594711303711
4512 masks_dr unique: tensor([-7.7061, -7.7060, -7.6973, ..., 12.8958, 12.8984, 12.8988],
4513
           grad_fn=<Unique2Backward0>)
4514 masks_dr unique: tensor([-7.7061, -7.7060, -7.6973, ..., 12.8958, 12.8984, 12.8988],
           grad_fn=<Unique2Backward0>)
4515
                                | 120/160 [19:15<06:25, 9.63s/it]print_dice: 0.
4945652186870575,
                       print_iou: 0.3285198509693146
4517 masks_dr unique: tensor([-7.6201, -7.6139, -7.5963, ..., 11.5496, 11.5503, 11.5520],
4518
           grad fn=<Unique2Backward0>)
4519 masks_dr unique: tensor([-7.6201, -7.6139, -7.5963, ..., 11.5496, 11.5503, 11.5520],
4520
           grad_fn=<Unique2Backward0>)
4521 Epoch 22/499: 76%| | 121/160 [19:25<06:16, 9.67s/it]print_dice: 0.
    44709399342536926, print_iou: 0.2879079580307007
4522 masks dr unique: tensor([-7.6201, -7.6139, -7.5964, ..., 11.5514, 11.5524, 11.5547],
4523
           grad fn=<Unique2Backward0>)
4524 masks dr unique: tensor([-7.6201, -7.6139, -7.5964, ..., 11.5514, 11.5524, 11.5547],
           grad fn=<Unique2Backward0>)
4526 Epoch 22/499: 76% | 122/160 [19:35<06:05, 9.62s/it]print_dice: 0.
    4798971116542816, print_iou: 0.3157004117965698
4527 masks dr unique: tensor([-7.6227, -7.6165, -7.5990, ..., 11.5539, 11.5540, 11.5562],
           grad_fn=<Unique2Backward0>)
4528
4529 masks_dr unique: tensor([-7.6227, -7.6165, -7.5990, ..., 11.5539, 11.5540, 11.5562],
           grad_fn=<Unique2Backward0>)
4531 Epoch 22/499: 77% | 123/160 [19:44<05:55, 9.61s/it]print_dice: 0.
    5895819067955017, print_iou: 0.41801926493644714
4532 masks dr unique: tensor([-7.7333, -7.7131, -7.6905, ..., 11.8094, 11.8137, 11.8187],
4533
           grad_fn=<Unique2Backward0>)
4534 masks_dr unique: tensor([-7.7333, -7.7131, -7.6905, ..., 11.8094, 11.8137, 11.8187],
           grad_fn=<Unique2Backward0>)
4535
4536 print_dice: 0.5497072339057922, print_iou: 0.3790319263935089
4537 Epoch 22/499: 78%| | 124/160 [19:54<05:47, 9.64s/it]masks_dr unique: tensor([-7.
    6990, -7.6983, -7.6895, ..., 12.1581, 12.1594, 12.1598],
           grad_fn=<Unique2Backward0>)
4538
4539 masks_dr unique: tensor([-7.6990, -7.6983, -7.6895, ..., 12.1581, 12.1594, 12.1598],
4540
           grad_fn=<Unique2Backward0>)
4541 Epoch 22/499: 78% | 125/160 [20:04<05:38, 9.67s/it]print_dice: 0.
                      print_iou: 0.3620573878288269
    5316330790519714,
4542 masks_dr unique: tensor([-7.4658, -7.4615, -7.4489, ..., 12.9155, 12.9156, 12.9199],
           grad_fn=<Unique2Backward0>)
4543
4544 masks_dr unique: tensor([-7.4658, -7.4615, -7.4489, ..., 12.9155, 12.9156, 12.9199],
4545
           grad_fn=<Unique2Backward0>)
4546 Epoch 22/499: 79% | 126/160 [20:13<05:26, 9.61s/it]print dice: 0.
    5606077909469604, print iou: 0.3894753158092499
4547 masks_dr unique: tensor([-7.8269, -7.8236, -7.8096, ..., 13.0364, 13.0376, 13.0382],
4548
           grad_fn=<Unique2Backward0>)
4549 masks_dr unique: tensor([-7.8269, -7.8236, -7.8096, ..., 13.0364, 13.0376, 13.0382],
           grad_fn=<Unique2Backward0>)
4551 Epoch 22/499: 79%|
                          127/160 [20:23<05:16,
                                                        9.60s/it]print_dice: 0.
                      print iou: 0.34939542412757874
    5178547501564026,
4552 masks_dr unique: tensor([-7.7014, -7.6901, -7.6800, ..., 12.4728, 12.4752, 12.4753],
           grad fn=<Unique2Backward0>)
4554 masks_dr unique: tensor([-7.7014, -7.6901, -7.6800, ..., 12.4728, 12.4752, 12.4753],
           grad_fn=<Unique2Backward0>)
4555
4556 Epoch 22/499: 80% | 128/160 [20:32<05:05, 9.54s/it]print_dice: 0.
    49535512924194336,
                        print_iou: 0.3292172849178314
4557 masks_dr unique: tensor([-7.3918, -7.3752, -7.3748, ..., 11.8031, 11.8040, 11.8081],
           grad fn=<Unique2Backward0>)
4558
4559 masks_dr unique: tensor([-7.3918, -7.3752, -7.3748, ..., 11.8031, 11.8040, 11.8081],
4560
           grad fn=<Unique2Backward0>)
4561 Epoch 22/499: 81%
                            129/160 [20:42<04:55, 9.53s/it]print_dice: 0.
    5292299389839172,
                        print iou: 0.35983186960220337
```

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4562 masks dr unique: tensor([-7.4241, -7.4115, -7.4095, ..., 11.4070, 11.4090, 11.4129],
           grad_fn=<Unique2Backward0>)
4564 masks dr unique: tensor([-7.4241, -7.4115, -7.4095, ..., 11.4070, 11.4090, 11.4129],
4565
           grad fn=<Unique2Backward0>)
4566 print_dice: 0.5012483596801758, print_iou: 0.3344438970088959
4567 Epoch 22/499: 81%| | 130/160 [20:51<04:45, 9.51s/it]masks_dr unique: tensor([-7.
    7003, -7.6752, -7.6653, ..., 12.1668, 12.1719, 12.1760],
4568
           grad_fn=<Unique2Backward0>)
4569 masks_dr unique: tensor([-7.7003, -7.6752, -7.6653, ..., 12.1668, 12.1719, 12.1760],
           grad fn=<Unique2Backward0>)
4570
4571 Epoch 22/499: 82%| | 131/160 [21:01<04:36, 9.55s/it]print_dice: 0.
    4688494801521301, print_iou: 0.3062073290348053
4572 masks_dr unique: tensor([-7.6986, -7.6978, -7.6852, ..., 12.9099, 12.9116, 12.9125],
4573
           grad fn=<Unique2Backward0>)
4574 masks_dr unique: tensor([-7.6986, -7.6978, -7.6852, ..., 12.9099, 12.9116, 12.9125],
4575
           grad_fn=<Unique2Backward0>)
4576 print dice: 0.5613706111907959, print_iou: 0.39021211862564087
4577 Epoch 22/499: 82%| | 132/160 [21:10<04:26, 9.52s/it]masks_dr unique: tensor([-7.
    9919, -7.9895, -7.9744, ..., 12.9376, 12.9398, 12.9405],
4578
           grad_fn=<Unique2Backward0>)
4579 masks_dr unique: tensor([-7.9919, -7.9895, -7.9744, ..., 12.9376, 12.9398, 12.9405],
4580
           grad_fn=<Unique2Backward0>)
4581 print dice: 0.5608751177787781, print iou: 0.3897334635257721
4582 Epoch 22/499: 83%| | | 133/160 [21:20<04:16, 9.51s/it]masks_dr unique: tensor([-7.
    2187, -7.2044, -7.2012, ..., 11.8100, 11.8111, 11.8123],
4583
           grad_fn=<Unique2Backward0>)
4584 masks_dr unique: tensor([-7.2187, -7.2044, -7.2012, ..., 11.8100, 11.8111, 11.8123],
4585
           grad_fn=<Unique2Backward0>)
4586 Epoch 22/499: 84\%
                      print_iou: 0.3065940737724304
    4693027138710022,
4587 masks_dr unique: tensor([-7.6260, -7.6199, -7.6026, ..., 11.5547, 11.5549, 11.5572],
4588
           grad_fn=<Unique2Backward0>)
4589 masks_dr unique: tensor([-7.6260, -7.6199, -7.6026, ..., 11.5547, 11.5549, 11.5572],
4590
           grad fn=<Unique2Backward0>)
4591 Epoch 22/499: 84\%
    5279802083969116, print_iou: 0.3586774170398712
4592 masks_dr unique: tensor([-7.6257, -7.6195, -7.6020, ..., 11.5546, 11.5563, 11.5568],
           grad_fn=<Unique2Backward0>)
4594 masks_dr unique: tensor([-7.6257, -7.6195, -7.6020, ..., 11.5546, 11.5563, 11.5568],
           grad fn=<Unique2Backward0>)
4595
4596 Epoch 22/499: 85%| | 136/160 [21:49<03:50, 9.61s/it]print_dice: 0.
    5170949697494507, print_iou: 0.3487040400505066
4597 masks_dr unique: tensor([-7.6257, -7.6161, -7.6049, ..., 12.1422, 12.1475, 12.1533],
           grad fn=<Unique2Backward0>)
4599 masks_dr unique: tensor([-7.6257, -7.6161, -7.6049, ..., 12.1422, 12.1475, 12.1533],
           grad_fn=<Unique2Backward0>)
4601 print_dice: 0.5434314608573914, print_iou: 0.3730902075767517
4602 Epoch 22/499: 86%| | 137/160 [21:58<03:40, 9.57s/it]masks_dr unique: tensor([-7.
    6366, -7.6322, -7.6205, ..., 12.2504, 12.2533, 12.2565],
4603
           grad fn=<Unique2Backward0>)
4604 masks_dr unique: tensor([-7.6366, -7.6322, -7.6205, ..., 12.2504, 12.2533, 12.2565],
4605
           grad_fn=<Unique2Backward0>)
4606 Epoch 22/499: 86% | 138/160 [22:08<03:29, 9.55s/it]print dice: 0.
    5650686025619507, print_iou: 0.39379483461380005
4607 masks_dr unique: tensor([-7.6193, -7.6132, -7.5957, ..., 11.5545, 11.5568, 11.5591],
4608
           grad_fn=<Unique2Backward0>)
4609 masks_dr unique: tensor([-7.6193, -7.6132, -7.5957, ..., 11.5545, 11.5568, 11.5591],
           grad_fn=<Unique2Backward0>)
4611 Epoch 22/499: 87%| | | 139/160 [22:17<03:21, 9.60s/it]print_dice: 0.
                       print_iou: 0.36701953411102295
    5369631052017212,
4612 masks_dr unique: tensor([-7.6735, -7.6728, -7.6678, ..., 12.9503, 12.9508, 12.9559],
           grad fn=<Unique2Backward0>)
4613
4614 masks_dr unique: tensor([-7.6735, -7.6728, -7.6678, ..., 12.9503, 12.9508, 12.9559],
           grad_fn=<Unique2Backward0>)
4615
4616 Epoch 22/499: 88% | 140/160 [22:27<03:12, 9.60s/it]print_dice: 0.
                        print iou: 0.2818758487701416
    43978652358055115,
4617 masks_dr unique: tensor([-7.5466, -7.5385, -7.5357, ..., 11.8116, 11.8161, 11.8194],
4618
           grad_fn=<Unique2Backward0>)
4619 masks_dr unique: tensor([-7.5466, -7.5385, -7.5357, ..., 11.8116, 11.8161, 11.8194],
```

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grad fn=<Unique2Backward0>)
4620
4621 Epoch 22/499: 88%| | 141/160 [22:36<03:01, 9.57s/it]print_dice: 0.
      4956507682800293, print_iou: 0.32947853207588196
4622 masks_dr unique: tensor([-7.7515, -7.7312, -7.7166, ..., 12.2975, 12.3038, 12.3076],
                grad_fn=<Unique2Backward0>)
4624 masks_dr unique: tensor([-7.7515, -7.7312, -7.7166, ..., 12.2975, 12.3038, 12.3076],
                 grad_fn=<Unique2Backward0>)
4625
4626 print_dice: 0.5738018751144409, print_iou: 0.402329683303833
4627 Epoch 22/499: 89%| | 142/160 [22:46<02:52, 9.59s/it]masks_dr unique: tensor([-7.
      6929, -7.6900, -7.6777, ..., 12.9661, 12.9693, 12.9694],
4628
                 grad fn=<Unique2Backward0>)
4629 masks_dr unique: tensor([-7.6929, -7.6900, -7.6777, ..., 12.9661, 12.9693, 12.9694],
                grad_fn=<Unique2Backward0>)
4630
4631 Epoch \frac{22}{499}: \frac{89}{499} \frac{143}{160} \frac{143}{160} \frac{22:56}{02:44}, \frac{9.65}{11} print dice: 0.
                                   print iou: 0.3620789349079132
       5316563248634338,
4632 masks dr unique: tensor([-7.4451, -7.4413, -7.4269, ..., 12.0115, 12.0115, 12.0145],
                grad fn=<Unique2Backward0>)
4634 masks_dr unique: tensor([-7.4451, -7.4413, -7.4269, ..., 12.0115, 12.0115, 12.0145],
4635
                 grad_fn=<Unique2Backward0>)
4636 Epoch 22/499: 90%| | 144/160 [23:06<02:34, 9.68s/it]print_dice: 0.
      5085349678993225, print_iou: 0.34096336364746094
4637 masks_dr unique: tensor([-7.8121, -7.8049, -7.7914, ..., 12.9260, 12.9277, 12.9281],
4638
                grad fn=<Unique2Backward0>)
4639 masks_dr unique: tensor([-7.8121, -7.8049, -7.7914, ..., 12.9260, 12.9277, 12.9281],
                grad_fn=<Unique2Backward0>)
4641 print dice: 0.5192607641220093, print iou: 0.3506767153739929
4642 Epoch 22/499: 91%| 145/160 [23:15<02:25, 9.67s/it]masks_dr unique: tensor([-7.
       3281, -7.3228, -7.3045, ..., 12.4563, 12.4569, 12.4582],
                grad_fn=<Unique2Backward0>)
4643
4644 masks_dr unique: tensor([-7.3281, -7.3228, -7.3045, ..., 12.4563, 12.4569, 12.4582],
                grad fn=<Unique2Backward0>)
4646 Epoch 22/499: 91%| | 146/160 [23:25<02:16, 9.77s/it]print_dice: 0.
      5189594030380249, print_iou: 0.3504018485546112
4647 masks dr unique: tensor([-7.5646, -7.5582, -7.5330, ..., 11.4574, 11.4594, 11.4632],
4648
                grad_fn=<Unique2Backward0>)
4649 masks_dr unique: tensor([-7.5646, -7.5582, -7.5330, ..., 11.4574, 11.4594, 11.4632],
                 grad_fn=<Unique2Backward0>)
4650
4651 print_dice: 0.5445536375045776, print_iou: 0.3741488754749298
4652 Epoch 22/499: 92%| | 147/160 [23:35<02:07, 9.78s/it]masks_dr unique: tensor([-7.
      6123, -7.6059, -7.5880, ..., 11.5598, 11.5609, 11.5625],
4653
                 grad_fn=<Unique2Backward0>)
4654 masks dr unique: tensor([-7.6123, -7.6059, -7.5880, ..., 11.5598, 11.5609, 11.5625],
4655
                grad_fn=<Unique2Backward0>)
4657 Epoch 22/499: 92%| | 148/160 [23:45<01:59, 9.98s/it]masks_dr unique: tensor([-7.
      2460, -7.2300, -7.2228, ..., 12.4972, 12.4975, 12.4987],
                 grad_fn=<Unique2Backward0>)
4658
4659 masks_dr unique: tensor([-7.2460, -7.2300, -7.2228, ..., 12.4972, 12.4975, 12.4987],
                 grad fn=<Unique2Backward0>)
4660
4661 Epoch 22/499: 93% | 149/160 [23:56<01:50, 10.04s/it]print_dice: 0.
      5122014284133911, print_iou: 0.34426799416542053
4662 masks_dr unique: tensor([-7.2596, -7.2481, -7.2453, ..., 11.7916, 11.7932, 11.7963],
                grad fn=<Unique2Backward0>)
4663
4664 masks_dr unique: tensor([-7.2596, -7.2481, -7.2453, ..., 11.7916, 11.7932, 11.7963],
                grad_fn=<Unique2Backward0>)
4666 Epoch 22/499: 94%
                                              | | 150/160 [24:05<01:39, 9.94s/it]print_dice: 0.
      5611856579780579, print_iou: 0.39003342390060425
4667 masks_dr unique: tensor([-7.6144, -7.6079, -7.5899, ..., 11.5617, 11.5640, 11.5667],
                 grad_fn=<Unique2Backward0>)
4669 masks_dr unique: tensor([-7.6144, -7.6079, -7.5899, ..., 11.5617, 11.5640, 11.5667],
                grad fn=<Unique2Backward0>)
4670
4671 Epoch 22/499: 94%| 4671 Epoch 22/499: 9471 Epoch 22/499
      5847349166870117,
                                 print_iou: 0.41316282749176025
4672 masks_dr unique: tensor([-7.7539, -7.7484, -7.7341, ..., 12.6723, 12.6741, 12.6743],
                grad_fn=<Unique2Backward0>)
4673
4674 masks_dr unique: tensor([-7.7539, -7.7484, -7.7341, ..., 12.6723, 12.6741, 12.6743],
                 grad fn=<Unique2Backward0>)
4675
4676 Epoch 22/499: 95%
                                        152/160 [24:24<01:18, 9.77s/it]print_dice: 0.
      5516074895858765,
                                   print iou: 0.38084113597869873
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4677 ice: 0.5563504695892334, print iou: 0.38537779450416565
4678 Epoch 22/499: 96%| | 153/160 [24:34<01:07, 9.71s/it]masks_dr unique: tensor([-7.
    7425, -7.7354, -7.7261, ..., 11.9455, 11.9499, 11.9552],
           grad fn=<Unique2Backward0>)
4679
4680 masks_dr unique: tensor([-7.7425, -7.7354, -7.7261, ..., 11.9455, 11.9499, 11.9552],
           grad fn=<Unique2Backward0>)
4682 Epoch 22/499: 96%| 4682 4684 | 154/160 [24:44<00:58, 9.71s/it]print dice: 0.
    5548045039176941,
                       print_iou: 0.3838958144187927
4683 masks_dr unique: tensor([-7.6681, -7.6615, -7.6600, ..., 13.1398, 13.1442, 13.1449],
           grad fn=<Unique2Backward0>)
4684
4685 masks_dr unique: tensor([-7.6681, -7.6615, -7.6600, ..., 13.1398, 13.1442, 13.1449],
           grad fn=<Unique2Backward0>)
4686
4687 Epoch 22/499: 97% | 155/160 [24:53<00:47, 9.59s/it]print_dice: 0.
    5930745005607605, print iou: 0.42153939604759216
4688 masks_dr unique: tensor([-7.5446, -7.5415, -7.5284, ..., 12.0231, 12.0250, 12.0278],
           grad_fn=<Unique2Backward0>)
4690 masks_dr unique: tensor([-7.5446, -7.5415, -7.5284, ..., 12.0231, 12.0250, 12.0278],
           grad_fn=<Unique2Backward0>)
4691
4692 Epoch 22/499: 98%| 156/160 [25:03<00:38, 9.62s/it]print_dice: 0.
    5472176671028137, print_iou: 0.3766687214374542
4693 masks_dr unique: tensor([-7.6091, -7.6027, -7.5848, ..., 11.5652, 11.5659, 11.5678],
           grad_fn=<Unique2Backward0>)
4695 masks_dr unique: tensor([-7.6091, -7.6027, -7.5848, ..., 11.5652, 11.5659, 11.5678],
4696
           grad_fn=<Unique2Backward0>)
4697 Epoch 22/499: 98% 98% 157/160 [25:12<00:28, 9.59s/it]print dice: 0.
                       print_iou: 0.3685207664966583
    5385680198669434,
4698 masks_dr unique: tensor([-7.6085, -7.6021, -7.5843, ..., 11.5651, 11.5653, 11.5676],
           grad_fn=<Unique2Backward0>)
4699
4700 masks_dr unique: tensor([-7.6085, -7.6021, -7.5843, ..., 11.5651, 11.5653, 11.5676],
           grad fn=<Unique2Backward0>)
4701
4702 Epoch 22/499: 99% | 158/160 [25:22<00:19, 9.57s/it]print_dice: 0.
    45857545733451843, print_iou: 0.2975010871887207
4703 masks_dr unique: tensor([-7.5492, -7.5297, -7.5284, ..., 12.1406, 12.1473, 12.1523],
4704
           grad_fn=<Unique2Backward0>)
4705 masks dr unique: tensor([-7.5492, -7.5297, -7.5284, ..., 12.1406, 12.1473, 12.1523],
           grad_fn=<Unique2Backward0>)
4707 print dice: 0.5222999453544617, print_iou: 0.3534546196460724
4708 Epoch 22/499: 99%| 100 | 159/160 [25:31<00:09, 9.55s/it]masks_dr unique: tensor([-7.
    6098, -7.6036, -7.5858, ..., 11.5659, 11.5677, 11.5684],
4709
           grad fn=<Unique2Backward0>)
4710 masks_dr unique: tensor([-7.6098, -7.6036, -7.5858, ..., 11.5659, 11.5677, 11.5684],
4711
           grad_fn=<Unique2Backward0>)
4712 Epoch 22/499: 100%| 100% | 160/160 [25:41<00:00, 9.54s/it]print_dice: 0.
    4509328305721283, print_iou: 0.2910996079444885
4713
      [159/160] eta: 0:00:09
                                time: 9.6965 data: 0.0004
4714 Epoch 22/499: 100% | 100% | 160/160 [25:42<00:00, 9.64s/it]
4715 Total time: 0:25:42 (9.6381 s / it)
4716 Averaged stats: training_loss: -35.6159 (-35.6159) loss_mask: -35.9067 (-35.9067)
    loss_dice: 0.2908 (0.2908)
4717 Net parameter norm: 1054.4233386715641
4718 Validating...
4719 Valid_dataloader len: 12
4720
      0%|
                   | 0/12 [00:00<?, ?it/s]masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique
    sigmoid values: tensor([4.8422e-04, 5.1995e-04, 5.2415e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
4722 masks_dr unique: tensor([7.6233e-04, 7.6572e-04, 7.8803e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
4723
                   | 1/12 [00:14<02:43, 14.87s/it]print_dice: 0.5535549521446228, print_iou: 0.
4724
      8%|
     3827002942562103
      [ 0/12] eta: 0:02:58
                               time: 14.8726 data: 9.0580
4725
4726 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.3545e-04, 3.
     3688e-04, 3.8553e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
4727
4728 masks dr unique: tensor([6.4620e-04, 6.4901e-04, 6.5148e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
4730 17%
                   | 2/12 [00:20<01:35, 9.51s/it]print_dice: 0.6049653887748718, print_iou: 0.
    4336561858654022
4731 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.9403e-04, 4.
    2597e-04, 4.4710e-04, ..., 1.0000e+00, 1.0000e+00,
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1.0000e+00], grad fn=<Unique2Backward0>)
4732
4733 masks dr unique: tensor([6.8380e-04, 6.8585e-04, 7.0545e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
4735 print dice: 0.5271387100219727, print iou: 0.35790112614631653
                   | 3/12 [00:26<01:10, 7.78s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.3475e-04, 3.6302e-04, 3.6713e-04, ..., 9.9999e-01, 9.
    9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
4737
4738 masks_dr unique: tensor([3.5713e-04, 3.6868e-04, 3.7349e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
4739
4740 print dice: 0.5172240734100342, print iou: 0.3488214612007141
                   | 4/12 [00:32<00:57, 7.13s/it]masks dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([2.6878e-04, 2.7636e-04, 2.8242e-04, ..., 1.0000e+00, 1.
    0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
4742
4743 masks dr unique: tensor([4.4157e-04, 4.4482e-04, 4.4808e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
4745 42%
                   | 5/12 [00:38<00:46, 6.62s/it]print dice: 0.5785247683525085, print_iou: 0.
    4069889783859253
4746 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.8091e-04, 4.
    3307e-04, 4.7485e-04, ..., 9.9999e-01, 9.9999e-01,
4747
            9.9999e-01], grad_fn=<Unique2Backward0>)
4748 masks_dr unique: tensor([6.6937e-04, 6.7226e-04, 6.7605e-04, ..., 9.9999e-01, 9.9999e-01,
4749
            9.9999e-01], grad_fn=<Unique2Backward0>)
                   | 6/12 [00:43<00:37, 6.27s/it]print_dice: 0.5073720812797546, print_iou: 0.
4750 50%
    33991867303848267
4751 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([5.0926e-04, 5.
    5687e-04, 6.0963e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
4752
4753 masks dr unique: tensor([6.1345e-04, 6.3109e-04, 6.4354e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
4755 print_dice: 0.440346896648407, print_iou: 0.28233644366264343
            7/12 [00:49<00:31, 6.23s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([2.8063e-04, 2.8543e-04, 2.9734e-04, ..., 1.0000e+00, 1.
    0000e+00,
4757
            1.0000e+00], grad_fn=<Unique2Backward0>)
4758 masks_dr unique: tensor([4.7501e-04, 4.7817e-04, 4.7967e-04, ..., 1.0000e+00, 1.0000e+00,
4759
            1.0000e+00], grad_fn=<Unique2Backward0>)
4760 print_dice: 0.543220043182373, print_iou: 0.3728909492492676
          | 8/12 [00:55<00:24, 6.09s/it]masks dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.3966e-04, 3.7342e-04, 3.9249e-04, ..., 9.9999e-01, 9.
    9999e-01,
4762
            9.9999e-01], grad_fn=<Unique2Backward0>)
4763 masks dr unique: tensor([6.4362e-04, 6.4504e-04, 6.7871e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
4764
                  | 9/12 [01:02<00:18, 6.18s/it]print_dice: 0.5619027018547058, print_iou: 0.
4765 75%
    3907264471054077
4766 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.0096e-04, 4.
    3220e-04, 4.4517e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
4767
4768 masks_dr unique: tensor([7.0271e-04, 7.3438e-04, 7.5639e-04, ..., 9.9999e-01, 9.9999e-01,
4769
            9.9999e-01], grad_fn=<Unique2Backward0>)
4770 83%| | 10/12 [01:07<00:12, 6.04s/it]print_dice: 0.5716570019721985, print_iou: 0
     .40022391080856323
4771 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.3452e-04, 3.
    6332e-04, 3.6727e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
4772
4773 masks_dr unique: tensor([5.9753e-04, 5.9958e-04, 6.0682e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
4775 print_dice: 0.6147118210792542, print_iou: 0.44374290108680725
          ]) unique sigmoid values: tensor([2.3925e-04, 2.8062e-04, 2.8861e-04, ..., 1.0000e+00, 1.
    0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
4777
4778 masks_dr unique: tensor([4.9849e-04, 5.0511e-04, 5.0628e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
4779
                   | 12/12 [01:19<00:00, 6.03s/it]print_dice: 0.5798243880271912, print_iou: 0
4780 100%||
     .4082765281200409
4781
      [11/12] eta: 0:00:06
                              time: 6.6631 data: 0.7553
```

```
12/12 [01:20<00:00, 6.70s/it]
4782 100%
4783 Total time: 0:01:20 (6.7012 s / it)
4784 =============
4785 Averaged stats:
4786 epoch:
                  learning rate:
                                    1e-07
             23
4787 Epoch 23/499: 0%
                                 | 0/160 [00:00<?, ?it/s]masks_dr unique: tensor([-7.5632, -7.
    5556, -7.5490, ..., 12.2048, 12.2103, 12.2131],
           grad_fn=<Unique2Backward0>)
4788
4789 masks_dr unique: tensor([-7.5632, -7.5556, -7.5490, ..., 12.2048, 12.2103, 12.2131],
4790
           grad fn=<Unique2Backward0>)
4791 Epoch 23/499:
                    1%|
                                 | 1/160 [00:14<37:37, 14.20s/it]print_dice: 0.5300721526145935
        print_iou: 0.3606109917163849
4792 [ 0/160] eta: 0:37:51 time: 14.1970 data: 4.4611
4793 masks_dr unique: tensor([-7.6136, -7.6073, -7.5895, ..., 11.5671, 11.5693, 11.5720],
           grad fn=<Unique2Backward0>)
4794
4795 masks_dr unique: tensor([-7.6136, -7.6073, -7.5895, ..., 11.5671, 11.5693, 11.5720],
           grad_fn=<Unique2Backward0>)
4797 Epoch 23/499:
                    1%||
                                 2/160 [00:23<30:25, 11.56s/it]print_dice: 0.5351114869117737
        print_iou: 0.36529162526130676
4798 masks_dr unique: tensor([-7.6120, -7.6057, -7.5880, ..., 11.5661, 11.5686, 11.5694],
           grad_fn=<Unique2Backward0>)
4799
4800 masks_dr unique: tensor([-7.6120, -7.6057, -7.5880, ..., 11.5661, 11.5686, 11.5694],
4801
           grad fn=<Unique2Backward0>)
4802 Epoch 23/499: 2%
                                 3/160 [00:33<27:55, 10.67s/it]print_dice: 0.48582956194877625
        print iou: 0.3208552896976471
4803 masks_dr unique: tensor([-7.6615, -7.6517, -7.6419, ..., 12.6968, 12.6993, 12.6998],
           grad fn=<Unique2Backward0>)
4805 masks_dr unique: tensor([-7.6615, -7.6517, -7.6419, ..., 12.6968, 12.6993, 12.6998],
           grad_fn=<Unique2Backward0>)
4806
                    2%
                                 4/160 [00:43<26:36, 10.24s/it]print_dice: 0.4616651237010956
4807 Epoch 23/499:
        print_iou: 0.30010703206062317
4808 masks_dr unique: tensor([-7.6150, -7.6087, -7.5910, ..., 11.5671, 11.5686, 11.5706],
           grad_fn=<Unique2Backward0>)
4810 masks_dr unique: tensor([-7.6150, -7.6087, -7.5910, ..., 11.5671, 11.5686, 11.5706],
           grad_fn=<Unique2Backward0>)
4811
4812 Epoch 23/499:
                   3%|
                                 5/160 [00:52<25:39, 9.93s/it]print_dice: 0.47918254137039185
        print iou: 0.3150822222328186
4813 masks dr unique: tensor([-7.7404, -7.7226, -7.7148, ..., 12.1135, 12.1193, 12.1255],
           grad_fn=<Unique2Backward0>)
4815 masks_dr unique: tensor([-7.7404, -7.7226, -7.7148, ..., 12.1135, 12.1193, 12.1255],
           grad_fn=<Unique2Backward0>)
4816
                                 6/160 [01:02<25:17, 9.85s/it]print_dice: 0.5262940526008606
4817 Epoch 23/499:
                    4%
        print_iou: 0.35712283849716187
4818 masks_dr unique: tensor([-7.8545, -7.8534, -7.8445, ..., 13.1546, 13.1548, 13.1600],
4819
           grad_fn=<Unique2Backward0>)
4820 masks_dr unique: tensor([-7.8545, -7.8534, -7.8445, ..., 13.1546, 13.1548, 13.1600],
           grad_fn=<Unique2Backward0>)
                                 7/160 [01:11<24:59, 9.80s/it]print_dice: 0.5394436120986938
4822 Epoch 23/499:
                   4%|
        print_iou: 0.3693411648273468
4823 masks dr unique: tensor([-7.6649, -7.6647, -7.6524, ..., 12.8073, 12.8093, 12.8095],
4824
           grad_fn=<Unique2Backward0>)
4825 masks_dr unique: tensor([-7.6649, -7.6647, -7.6524, ..., 12.8073, 12.8093, 12.8095],
4826
           grad fn=<Unique2Backward0>)
4827 Epoch 23/499:
                                 8/160 [01:21<24:44, 9.77s/it]print_dice: 0.544208288192749
                    5%|
        print_iou: 0.3738228976726532
4828 masks_dr unique: tensor([-7.4076, -7.4006, -7.4005, ..., 12.3565, 12.3574, 12.3579],
           grad_fn=<Unique2Backward0>)
4829
4830 masks_dr unique: tensor([-7.4076, -7.4006, -7.4005, ..., 12.3565, 12.3574, 12.3579],
           grad_fn=<Unique2Backward0>)
                                 9/160 [01:31<24:28, 9.73s/it]print_dice: 0.5560241937637329
4832 Epoch 23/499:
                    6%|
        print_iou: 0.3850647509098053
4833 masks_dr unique: tensor([-7.6561, -7.6553, -7.6393, ..., 12.2664, 12.2724, 12.2764],
           grad_fn=<Unique2Backward0>)
4834
4835 masks dr unique: tensor([-7.6561, -7.6553, -7.6393, ..., 12.2664, 12.2724, 12.2764],
           grad fn=<Unique2Backward0>)
4836
                                 | 10/160 [01:40<24:10, 9.67s/it]print dice: 0.638347327709198
4837 Epoch 23/499:
                    6%
        print iou: 0.46880337595939636
4838 masks dr unique: tensor([-7.4045, -7.3937, -7.3847, ..., 12.6497, 12.6503, 12.6515],
           grad fn=<Unique2Backward0>)
4839
```

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4840 masks_dr unique: tensor([-7.4045, -7.3937, -7.3847, ..., 12.6497, 12.6503, 12.6515],
4841
           grad fn=<Unique2Backward0>)
                    7%
                                 | 11/160 [01:50<23:54, 9.63s/it]print dice: 0.
4842 Epoch 23/499:
    47577521204948425,
                         print_iou: 0.31214240193367004
4843 masks_dr unique: tensor([-7.6219, -7.6158, -7.5983, ..., 11.5736, 11.5747, 11.5764],
           grad_fn=<Unique2Backward0>)
4845 masks_dr unique: tensor([-7.6219, -7.6158, -7.5983, ..., 11.5736, 11.5747, 11.5764],
           grad_fn=<Unique2Backward0>)
4846
                                 | 12/160 [01:59<23:46, 9.64s/it]print_dice: 0.5485684275627136
4847 Epoch 23/499:
                    8%|
        print iou: 0.37794992327690125
4848 masks dr unique: tensor([-7.2090, -7.2075, -7.1935, ..., 11.8177, 11.8177, 11.8206],
           grad_fn=<Unique2Backward0>)
4850 masks_dr unique: tensor([-7.2090, -7.2075, -7.1935, ..., 11.8177, 11.8177, 11.8206],
           grad fn=<Unique2Backward0>)
                                 | 13/160 [02:09<23:39, 9.65s/it]print_dice: 0.5724124312400818
4852 Epoch 23/499:
                    8%|
        print iou: 0.4009648561477661
4853 masks_dr unique: tensor([-7.7307, -7.7144, -7.6965, ..., 12.8371, 12.8381, 12.8386],
           grad_fn=<Unique2Backward0>)
4855 masks_dr unique: tensor([-7.7307, -7.7144, -7.6965, ..., 12.8371, 12.8381, 12.8386],
           grad_fn=<Unique2Backward0>)
4857 print_dice: 0.5415999889373779, print_iou: 0.37136590480804443
                               | 14/160 [02:19<23:17, 9.57s/it]masks_dr unique: tensor([-7.
4858 Epoch 23/499:
                    9%|
    7610, -7.7497, -7.7352, ..., 12.0362, 12.0411, 12.0471],
4859
           grad fn=<Unique2Backward0>)
4860 masks dr unique: tensor([-7.7610, -7.7497, -7.7352, ..., 12.0362, 12.0411, 12.0471],
           grad_fn=<Unique2Backward0>)
4861
                                 | 15/160 [02:28<23:03, 9.54s/it]print_dice: 0.6109264492988586
4862 Epoch 23/499:
                    9%
        print iou: 0.43980854749679565
4863 masks_dr unique: tensor([-7.6252, -7.6191, -7.6015, ..., 11.5688, 11.5716, 11.5743],
           grad fn=<Unique2Backward0>)
4865 masks_dr unique: tensor([-7.6252, -7.6191, -7.6015, ..., 11.5688, 11.5716, 11.5743],
           grad_fn=<Unique2Backward0>)
4866
                                 | 16/160 [02:37<22:50, 9.52s/it]print dice: 0.
4867 Epoch 23/499: 10%
    45983725786209106, print_iou: 0.298564076423645
4868 masks dr unique: tensor([-7.6861, -7.6746, -7.6726, ..., 12.2611, 12.2656, 12.2687],
           grad_fn=<Unique2Backward0>)
4870 masks_dr unique: tensor([-7.6861, -7.6746, -7.6726, ..., 12.2611, 12.2656, 12.2687],
           grad_fn=<Unique2Backward0>)
4871
4872 print_dice: 0.5371431708335876, print_iou: 0.3671877980232239
                          | 17/160 [02:47<22:50, 9.58s/it]masks_dr unique: tensor([-7.
4873 Epoch 23/499: 11%
    4683, -7.4677, -7.4580, ..., 12.7136, 12.7153, 12.7164],
4874
           grad_fn=<Unique2Backward0>)
4875 masks_dr unique: tensor([-7.4683, -7.4677, -7.4580, ..., 12.7136, 12.7153, 12.7164],
           grad fn=<Unique2Backward0>)
4877 print_dice: 0.47730082273483276,
                                       print_iou: 0.31345707178115845
4878 Epoch 23/499: 11%| | 18/160 [02:57<22:39, 9.57s/it]masks_dr unique: tensor([-7.
    7517, -7.7455, -7.7418, ..., 12.1708, 12.1744, 12.1799],
4879
           grad_fn=<Unique2Backward0>)
4880 masks_dr unique: tensor([-7.7517, -7.7455, -7.7418, ..., 12.1708, 12.1744, 12.1799],
           grad fn=<Unique2Backward0>)
                                 | 19/160 [03:06<22:33, 9.60s/it]print dice: 0.6026995778083801
4882 Epoch 23/499: 12%
        print_iou: 0.43133145570755005
4883 masks_dr unique: tensor([-7.6300, -7.6239, -7.6063, ..., 11.5725, 11.5738, 11.5751],
4884
           grad_fn=<Unique2Backward0>)
4885 masks_dr unique: tensor([-7.6300, -7.6239, -7.6063, ..., 11.5725, 11.5738, 11.5751],
4886
           grad_fn=<Unique2Backward0>)
4887 print_dice: 0.5120969414710999, print_iou: 0.3441736102104187
                                 | 20/160 [03:16<22:15, 9.54s/it]masks_dr unique: tensor([-7.
4888 Epoch 23/499: 12%|■
    6306, -7.6245, -7.6070, ..., 11.5710, 11.5736, 11.5737],
           grad_fn=<Unique2Backward0>)
4889
4890 masks_dr unique: tensor([-7.6306, -7.6245, -7.6070, ..., 11.5710, 11.5736, 11.5737],
           grad fn=<Unique2Backward0>)
4891
                                 21/160 [03:26<22:16, 9.62s/it]print_dice: 0.4389590620994568
4892 Epoch 23/499: 13%
        print iou: 0.28119638562202454
4893 masks_dr unique: tensor([-7.6326, -7.6265, -7.6089, ..., 11.5730, 11.5743, 11.5758],
           grad fn=<Unique2Backward0>)
4894
4895 masks_dr unique: tensor([-7.6326, -7.6265, -7.6089, ..., 11.5730, 11.5743, 11.5758],
4896
           grad_fn=<Unique2Backward0>)
4897 print dice: 0.5232577323913574, print iou: 0.35433244705200195
```

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4898 Epoch 23/499: 14% 22/160 [03:35<21:59, 9.56s/it] masks dr unique: tensor([-7.
    6306, -7.6244, -7.6069, ..., 11.5707, 11.5727, 11.5734],
           grad fn=<Unique2Backward0>)
4900 masks_dr unique: tensor([-7.6306, -7.6244, -7.6069, ..., 11.5707, 11.5727, 11.5734],
           grad_fn=<Unique2Backward0>)
4902 Epoch 23/499: 14%
                                 23/160 [03:45<21:49, 9.56s/it]print_dice: 0.
    41637757420539856, print_iou: 0.2629272937774658
4903 masks dr unique: tensor([-7.4229, -7.4095, -7.4042, ..., 11.5465, 11.5518, 11.5554],
           grad_fn=<Unique2Backward0>)
4905 masks_dr unique: tensor([-7.4229, -7.4095, -7.4042, ..., 11.5465, 11.5518, 11.5554],
4906
           grad_fn=<Unique2Backward0>)
4907 print_dice: 0.4951205253601074, print_iou: 0.3290100693702698
4908 Epoch 23/499: 15% 24/160 [03:54<21:26, 9.46s/it]masks_dr unique: tensor([-7.
    5171, -7.5157, -7.5038, ..., 13.0132, 13.0143, 13.0155],
4909
           grad_fn=<Unique2Backward0>)
4910 masks_dr unique: tensor([-7.5171, -7.5157, -7.5038, ..., 13.0132, 13.0143, 13.0155],
           grad_fn=<Unique2Backward0>)
4912 Epoch 23/499: 16%
                                 25/160 [04:03<21:21, 9.50s/it]print_dice: 0.592319905757904
        print_iou: 0.4207773804664612
4913 masks_dr unique: tensor([-7.6678, -7.6628, -7.6415, ..., 11.9037, 11.9067, 11.9120],
           grad_fn=<Unique2Backward0>)
4914
4915 masks_dr unique: tensor([-7.6678, -7.6628, -7.6415, ..., 11.9037, 11.9067, 11.9120],
4916
           grad fn=<Unique2Backward0>)
4917 print_dice: 0.5458866953849792, print_iou: 0.3754086196422577
                           | 26/160 [04:13<21:10, 9.48s/it]masks dr unique: tensor([-7.
4918 Epoch 23/499: 16%
    6385, -7.6322, -7.6143, ..., 11.5746, 11.5762, 11.5793],
4919
           grad fn=<Unique2Backward0>)
4920 masks_dr unique: tensor([-7.6385, -7.6322, -7.6143, ..., 11.5746, 11.5762, 11.5793],
           grad_fn=<Unique2Backward0>)
4921
4922 Epoch 23/499: 17%
                                 27/160 [04:22<20:58, 9.46s/it]print_dice: 0.5100616216659546
        print_iou: 0.34233739972114563
4923 masks_dr unique: tensor([-7.7321, -7.7319, -7.7222, ..., 13.0161, 13.0170, 13.0184],
           grad fn=<Unique2Backward0>)
4925 masks dr unique: tensor([-7.7321, -7.7319, -7.7222, ..., 13.0161, 13.0170, 13.0184],
           grad fn=<Unique2Backward0>)
4926
4927 Epoch 23/499: 18%
                                 28/160 [04:32<20:41, 9.41s/it]print_dice: 0.5105463862419128
        print_iou: 0.34277430176734924
4928 masks_dr unique: tensor([-7.6368, -7.6304, -7.6126, ..., 11.5719, 11.5746, 11.5746],
           grad_fn=<Unique2Backward0>)
4930 masks_dr unique: tensor([-7.6368, -7.6304, -7.6126, ..., 11.5719, 11.5746, 11.5746],
           grad fn=<Unique2Backward0>)
4931
4932 Epoch 23/499: 18%
                                 29/160 [04:41<20:34, 9.42s/it]print_dice: 0.4589481055736542
        print_iou: 0.29781481623649597
4933 masks_dr unique: tensor([-7.2740, -7.2644, -7.2509, ..., 11.6094, 11.6155, 11.6197],
           grad_fn=<Unique2Backward0>)
4935 masks_dr unique: tensor([-7.2740, -7.2644, -7.2509, ..., 11.6094, 11.6155, 11.6197],
           grad_fn=<Unique2Backward0>)
4937 Epoch 23/499: 19%
                                 30/160 [04:51<20:29, 9.46s/it]print_dice: 0.5821296572685242
        print iou: 0.41056618094444275
4938 masks_dr unique: tensor([-7.6404, -7.6340, -7.6159, ..., 11.5741, 11.5741, 11.5767],
4939
           grad_fn=<Unique2Backward0>)
4940 masks dr unique: tensor([-7.6404, -7.6340, -7.6159, ..., 11.5741, 11.5741, 11.5767],
           grad_fn=<Unique2Backward0>)
4942 Epoch 23/499: 19%
                                 31/160 [05:00<20:30, 9.54s/it]print_dice: 0.5529854893684387
        print_iou: 0.3821561634540558
4943 masks_dr unique: tensor([-7.9138, -7.9003, -7.8967, ..., 12.9940, 12.9967, 12.9974],
           grad_fn=<Unique2Backward0>)
4944
4945 masks_dr unique: tensor([-7.9138, -7.9003, -7.8967, ..., 12.9940, 12.9967, 12.9974],
           grad_fn=<Unique2Backward0>)
                                      print iou: 0.4070494472980499
4947 print_dice: 0.5785858631134033,
4948 Epoch 23/499: 20%
                                 32/160 [05:10<20:13, 9.48s/it]masks_dr unique: tensor([-7.
    4444, -7.4410, -7.4293, ..., 11.4733, 11.4822, 11.4837],
4949
           grad_fn=<Unique2Backward0>)
4950 masks_dr unique: tensor([-7.4444, -7.4410, -7.4293, ..., 11.4733, 11.4822, 11.4837],
4951
           grad fn=<Unique2Backward0>)
4952 print dice: 0.5532413721084595, print iou: 0.38240060210227966
4953 Epoch 23/499: 21%
                                 | 33/160 [05:19<20:04, 9.48s/it]masks_dr unique: tensor([-7.
    6021, -7.5921, -7.5840, ..., 11.6530, 11.6577, 11.6619],
4954
           grad fn=<Unique2Backward0>)
```

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4955 masks_dr unique: tensor([-7.6021, -7.5921, -7.5840, ..., 11.6530, 11.6577, 11.6619],
4956
           grad fn=<Unique2Backward0>)
4957 Epoch 23/499: 21%
                                 34/160 [05:28<19:49, 9.44s/it]print dice: 0.5357009768486023
        print iou: 0.36584123969078064
4958 masks_dr unique: tensor([-7.6415, -7.6350, -7.6168, ..., 11.5718, 11.5723, 11.5752],
           grad_fn=<Unique2Backward0>)
4960 masks dr unique: tensor([-7.6415, -7.6350, -7.6168, ..., 11.5718, 11.5723, 11.5752],
           grad_fn=<Unique2Backward0>)
4961
4962 Epoch 23/499: 22%
                                 35/160 [05:38<19:42, 9.46s/it]print_dice: 0.555488646030426
        print iou: 0.3845512270927429
4963 masks_dr unique: tensor([-7.4418, -7.4261, -7.4247, ..., 11.8783, 11.8800, 11.8825],
           grad fn=<Unique2Backward0>)
4965 masks dr unique: tensor([-7.4418, -7.4261, -7.4247, ..., 11.8783, 11.8800, 11.8825],
           grad fn=<Unique2Backward0>)
                                 | 36/160 [05:47<19:33, 9.47s/it]print dice: 0.5866807699203491
4967 Epoch 23/499: 22%
        print_iou: 0.41510847210884094
4968 masks_dr unique: tensor([-7.5030, -7.4824, -7.4715, ..., 11.9307, 11.9347, 11.9382],
           grad_fn=<Unique2Backward0>)
4970 masks_dr unique: tensor([-7.5030, -7.4824, -7.4715, ..., 11.9307, 11.9347, 11.9382],
           grad fn=<Unique2Backward0>)
4972 Epoch 23/499: 23%
                                 37/160 [05:57<19:25, 9.47s/it]print_dice: 0.5349089503288269
        print_iou: 0.3651028573513031
4973 masks dr unique: tensor([-7.6449, -7.6384, -7.6200, ..., 11.5745, 11.5748, 11.5776],
           grad fn=<Unique2Backward0>)
4975 masks dr unique: tensor([-7.6449, -7.6384, -7.6200, ..., 11.5745, 11.5748, 11.5776],
4976
           grad_fn=<Unique2Backward0>)
4977 print dice: 0.5726661682128906, print iou: 0.4012139141559601
4978 Epoch 23/499: 24%
    6456, -7.6389, -7.6205, ..., 11.5741, 11.5756, 11.5772],
4979
           grad fn=<Unique2Backward0>)
4980 masks_dr unique: tensor([-7.6456, -7.6389, -7.6205, ..., 11.5741, 11.5756, 11.5772],
4981
           grad_fn=<Unique2Backward0>)
                                 39/160 [06:16<19:00, 9.42s/it]print_dice: 0.4816223084926605
4982 Epoch 23/499: 24%
        print_iou: 0.317195326089859
4983 masks dr unique: tensor([-7.3535, -7.3493, -7.3331, ..., 11.8123, 11.8161, 11.8200],
4984
           grad_fn=<Unique2Backward0>)
4985 masks_dr unique: tensor([-7.3535, -7.3493, -7.3331, ..., 11.8123, 11.8161, 11.8200],
           grad_fn=<Unique2Backward0>)
4986
4987 Epoch 23/499: 25%
                                40/160 [06:25<18:54, 9.45s/it]print_dice: 0.5866000056266785
        print iou: 0.41502758860588074
4988 masks_dr unique: tensor([-7.6474, -7.6408, -7.6223, ..., 11.5738, 11.5745, 11.5776],
           grad_fn=<Unique2Backward0>)
4990 masks_dr unique: tensor([-7.6474, -7.6408, -7.6223, ..., 11.5738, 11.5745, 11.5776],
           grad fn=<Unique2Backward0>)
4992 print_dice: 0.5275948643684387, print_iou: 0.35832178592681885
4993 Epoch 23/499: 26%| 41/160 [06:35<18:42, 9.43s/it]masks_dr unique: tensor([-7.
    6498, -7.6431, -7.6245, ..., 11.5721, 11.5728, 11.5755],
4994
           grad_fn=<Unique2Backward0>)
4995 masks_dr unique: tensor([-7.6498, -7.6431, -7.6245, ..., 11.5721, 11.5728, 11.5755],
           grad fn=<Unique2Backward0>)
                                42/160 [06:44<18:31, 9.42s/it]print_dice: 0.5604763031005859
4997 Epoch 23/499: 26%
        print_iou: 0.38934844732284546
4998 masks_dr unique: tensor([-7.5504, -7.5483, -7.5360, ..., 11.1301, 11.1312, 11.1334],
           grad_fn=<Unique2Backward0>)
4999
5000 masks_dr unique: tensor([-7.5504, -7.5483, -7.5360, ..., 11.1301, 11.1312, 11.1334],
5001
           grad_fn=<Unique2Backward0>)
5002 print_dice: 0.5358902215957642, print_iou: 0.36601781845092773
                                | 43/160 [06:53<18:19, 9.39s/it]masks_dr unique: tensor([-7.
5003 Epoch 23/499: 27%
    5495, -7.5489, -7.5340, ..., 12.1663, 12.1668, 12.1707],
5004
           grad_fn=<Unique2Backward0>)
5005 masks dr unique: tensor([-7.5495, -7.5489, -7.5340, ..., 12.1663, 12.1668, 12.1707],
           grad_fn=<Unique2Backward0>)
5007 print_dice: 0.5447260737419128,
                                    print_iou: 0.37431174516677856
5008 Epoch 23/499: 28%
                                 44/160 [07:03<18:11, 9.41s/it]masks_dr unique: tensor([-7.
    5683, -7.5587, -7.5536, ..., 11.7593, 11.7621, 11.7681],
           grad fn=<Unique2Backward0>)
5009
5010 masks_dr unique: tensor([-7.5683, -7.5587, -7.5536, ..., 11.7593, 11.7621, 11.7681],
5011
           grad fn=<Unique2Backward0>)
5012 Epoch 23/499: 28%
                                 45/160 [07:12<18:06, 9.45s/it]print dice: 0.4829197824001312
```

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print iou: 0.3183218538761139
5013 masks_dr unique: tensor([-7.9117, -7.9003, -7.8908, ..., 13.0855, 13.0861, 13.0905],
           grad_fn=<Unique2Backward0>)
5015 masks_dr unique: tensor([-7.9117, -7.9003, -7.8908, ..., 13.0855, 13.0861, 13.0905],
           grad_fn=<Unique2Backward0>)
5017 print_dice: 0.6138707995414734, print_iou: 0.4428669810295105
5018 Epoch 23/499: 29% 46/160 [07:22<17:55, 9.44s/it]masks_dr unique: tensor([-7.
    5164, -7.5162, -7.5073, ..., 12.9448, 12.9448, 12.9460],
5019
           grad_fn=<Unique2Backward0>)
5020 masks_dr unique: tensor([-7.5164, -7.5162, -7.5073, ..., 12.9448, 12.9448, 12.9460],
           grad_fn=<Unique2Backward0>)
5021
5022 print_dice: 0.515610933303833, print_iou: 0.3473556637763977
5023 Epoch 23/499: 29% 47/160 [07:31<17:41, 9.40s/it] masks_dr unique: tensor([-7.
    8403, -7.8387, -7.8274, ..., 12.9915, 12.9951, 12.9952],
5024
           grad_fn=<Unique2Backward0>)
5025 masks_dr unique: tensor([-7.8403, -7.8387, -7.8274, ..., 12.9915, 12.9951, 12.9952],
           grad_fn=<Unique2Backward0>)
5027 print_dice: 0.5527572631835938, print_iou: 0.3819381892681122
5028 Epoch 23/499: 30%
                                | 48/160 [07:40<17:30, 9.38s/it]masks_dr unique: tensor([-7.
    4074, -7.3931, -7.3838, ..., 11.9323, 11.9360, 11.9404],
5029
           grad_fn=<Unique2Backward0>)
5030 masks_dr unique: tensor([-7.4074, -7.3931, -7.3838, ..., 11.9323, 11.9360, 11.9404],
5031
           grad fn=<Unique2Backward0>)
5032 Epoch 23/499: 31%
                                 49/160 [07:50<17:23, 9.40s/it]print_dice: 0.
    49852851033210754, print_iou: 0.3320266008377075
5033 masks_dr unique: tensor([-7.3757, -7.3658, -7.3582, ..., 11.2610, 11.2706, 11.2715],
           grad fn=<Unique2Backward0>)
5035 masks_dr unique: tensor([-7.3757, -7.3658, -7.3582, ..., 11.2610, 11.2706, 11.2715],
           grad_fn=<Unique2Backward0>)
5036
5037 Epoch 23/499: 31%
                                 | 50/160 [07:59<17:14, 9.41s/it]print_dice: 0.
    46819061040878296, print_iou: 0.3056454658508301
5038 masks_dr unique: tensor([-7.6559, -7.6488, -7.6296, ..., 11.5748, 11.5755, 11.5787],
           grad_fn=<Unique2Backward0>)
5040 masks_dr unique: tensor([-7.6559, -7.6488, -7.6296, ..., 11.5748, 11.5755, 11.5787],
5041
           grad fn=<Unique2Backward0>)
5042 Epoch 23/499: 32%
                                 | 51/160 [08:09<17:04, 9.40s/it]print_dice: 0.
    49833959341049194, print_iou: 0.3318590521812439
5043 masks dr unique: tensor([-7.6017, -7.5922, -7.5880, ..., 12.9300, 12.9306, 12.9325],
5044
           grad_fn=<Unique2Backward0>)
5045 masks_dr unique: tensor([-7.6017, -7.5922, -7.5880, ..., 12.9300, 12.9306, 12.9325],
5046
           grad_fn=<Unique2Backward0>)
                                 52/160 [08:18<16:56, 9.42s/it]print_dice: 0.556399941444397
5047 Epoch 23/499: 32%
        print_iou: 0.38542526960372925
5048 masks_dr unique: tensor([-7.2412, -7.2278, -7.2161, ..., 11.1337, 11.1387, 11.1416],
5049
           grad_fn=<Unique2Backward0>)
5050 masks_dr unique: tensor([-7.2412, -7.2278, -7.2161, ..., 11.1337, 11.1387, 11.1416],
           grad_fn=<Unique2Backward0>)
5052 print_dice: 0.4934849143028259, print_iou: 0.3275671899318695
5053 Epoch 23/499: 33% 53/160 [08:27<16:47, 9.41s/it]masks_dr unique: tensor([-7.
    8139, -7.8024, -7.7917, ..., 11.8358, 11.8411, 11.8437],
5054
           grad_fn=<Unique2Backward0>)
5055 masks dr unique: tensor([-7.8139, -7.8024, -7.7917, ..., 11.8358, 11.8411, 11.8437],
           grad_fn=<Unique2Backward0>)
5056
5057 print_dice: 0.4907480776309967, print_iou: 0.32515981793403625
5058 Epoch 23/499: 34%| 54/160 [08:37<16:35, 9.39s/it] masks_dr unique: tensor([-7.
    6612, -7.6539, -7.6344, ..., 11.5757, 11.5757, 11.5789],
           grad_fn=<Unique2Backward0>)
5059
5060 masks_dr unique: tensor([-7.6612, -7.6539, -7.6344, ..., 11.5757, 11.5757, 11.5789],
           grad fn=<Unique2Backward0>)
5062 print_dice: 0.5380855202674866,
                                     print_iou: 0.3680691123008728
5063 Epoch 23/499: 34%
                                 | 55/160 [08:46<16:29, 9.42s/it]masks dr unique: tensor([-7.
    6612, -7.6540, -7.6344, ..., 11.5748, 11.5753, 11.5785],
           grad_fn=<Unique2Backward0>)
5064
5065 masks dr unique: tensor([-7.6612, -7.6540, -7.6344, ..., 11.5748, 11.5753, 11.5785],
           grad_fn=<Unique2Backward0>)
5066
5067 Epoch 23/499: 35%
                                 56/160 [08:56<16:24, 9.47s/it]print dice: 0.5202392339706421
        print iou: 0.3515698313713074
5068 masks_dr unique: tensor([-7.2911, -7.2755, -7.2684, ..., 11.2696, 11.2732, 11.2769],
           grad fn=<Unique2Backward0>)
5069
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5070 masks_dr unique: tensor([-7.2911, -7.2755, -7.2684, ..., 11.2696, 11.2732, 11.2769],
           grad fn=<Unique2Backward0>)
5072 Epoch 23/499: 36%
                                 57/160 [09:05<16:15, 9.47s/it]print dice: 0.5060943365097046
        print_iou: 0.33877262473106384
5073 masks_dr unique: tensor([-7.6639, -7.6566, -7.6371, ..., 11.5754, 11.5757, 11.5786],
           grad_fn=<Unique2Backward0>)
5075 masks_dr unique: tensor([-7.6639, -7.6566, -7.6371, ..., 11.5754, 11.5757, 11.5786],
           grad_fn=<Unique2Backward0>)
5076
5077 Epoch 23/499: 36%
                                | 58/160 [09:15<16:03, 9.44s/it]print_dice: 0.5196108222007751
        print iou: 0.35099607706069946
5078 masks_dr unique: tensor([-7.7025, -7.6969, -7.6818, ..., 12.5106, 12.5121, 12.5125],
           grad_fn=<Unique2Backward0>)
5079
5080 masks_dr unique: tensor([-7.7025, -7.6969, -7.6818, ..., 12.5106, 12.5121, 12.5125],
           grad fn=<Unique2Backward0>)
5082 Epoch 23/499: 37%
                                 | 59/160 [09:24<15:56, 9.47s/it]print_dice: 0.6010950207710266
        print iou: 0.4296897053718567
5083 masks_dr unique: tensor([-7.5055, -7.5020, -7.4880, ..., 13.0374, 13.0379, 13.0404],
           grad_fn=<Unique2Backward0>)
5085 masks_dr unique: tensor([-7.5055, -7.5020, -7.4880, ..., 13.0374, 13.0379, 13.0404],
           grad fn=<Unique2Backward0>)
5087 Epoch 23/499: 38%
                                 60/160 [09:34<15:45, 9.46s/it]print_dice: 0.5804697275161743
        print_iou: 0.40891674160957336
5088 masks_dr unique: tensor([-7.5894, -7.5868, -7.5732, ..., 12.9989, 13.0002, 13.0019],
           grad fn=<Unique2Backward0>)
5090 masks_dr unique: tensor([-7.5894, -7.5868, -7.5732, ..., 12.9989, 13.0002, 13.0019],
5091
           grad_fn=<Unique2Backward0>)
5092 print dice: 0.4467710852622986, print iou: 0.28764021396636963
5093 Epoch 23/499: 38% 61/160 [09:43<15:35, 9.45s/it]masks_dr unique: tensor([-7.
    3731, -7.3687, -7.3520, ..., 12.2434, 12.2451, 12.2488],
5094
           grad fn=<Unique2Backward0>)
5095 masks dr unique: tensor([-7.3731, -7.3687, -7.3520, ..., 12.2434, 12.2451, 12.2488],
5096
           grad_fn=<Unique2Backward0>)
5097 Epoch 23/499: 39%
                                 62/160 [09:53<15:32, 9.51s/it]print_dice: 0.5129266977310181
        print iou: 0.34492361545562744
5098 masks dr unique: tensor([-7.6699, -7.6626, -7.6430, ..., 11.5748, 11.5764, 11.5781],
           grad_fn=<Unique2Backward0>)
5100 masks_dr unique: tensor([-7.6699, -7.6626, -7.6430, ..., 11.5748, 11.5764, 11.5781],
           grad_fn=<Unique2Backward0>)
5101
5102 Epoch 23/499: 39%
                                63/160 [10:02<15:25, 9.54s/it]print_dice: 0.5679180026054382
        print iou: 0.39656808972358704
5103 masks_dr unique: tensor([-7.6694, -7.6621, -7.6426, ..., 11.5734, 11.5761, 11.5764],
           grad_fn=<Unique2Backward0>)
5105 masks_dr unique: tensor([-7.6694, -7.6621, -7.6426, ..., 11.5734, 11.5761, 11.5764],
           grad_fn=<Unique2Backward0>)
                                 64/160 [10:12<15:14, 9.53s/it]print_dice: 0.4887213110923767
5107 Epoch 23/499: 40%
        print_iou: 0.3233826458454132
5108 masks_dr unique: tensor([-7.7424, -7.7390, -7.7248, ..., 13.0665, 13.0679, 13.0707],
           grad_fn=<Unique2Backward0>)
5109
5110 masks_dr unique: tensor([-7.7424, -7.7390, -7.7248, ..., 13.0665, 13.0679, 13.0707],
           grad fn=<Unique2Backward0>)
5112 print dice: 0.5111369490623474, print iou: 0.34330686926841736
5113 Epoch 23/499: 41%
                                | 65/160 [10:21<15:03, 9.51s/it]masks_dr unique: tensor([-7.
    9183, -7.9027, -7.9020, ..., 12.9175, 12.9203, 12.9207],
5114
           grad_fn=<Unique2Backward0>)
5115 masks_dr unique: tensor([-7.9183, -7.9027, -7.9020, ..., 12.9175, 12.9203, 12.9207],
5116
           grad_fn=<Unique2Backward0>)
5117 print_dice: 0.5752789378166199, print_iou: 0.40378355979919434
5118 Epoch 23/499: 41%
                                | 66/160 [10:31<14:49, 9.47s/it]masks_dr unique: tensor([-7.
    3077, -7.2947, -7.2838, ..., 11.7130, 11.7183, 11.7237],
5119
           grad_fn=<Unique2Backward0>)
5120 masks dr unique: tensor([-7.3077, -7.2947, -7.2838, ..., 11.7130, 11.7183, 11.7237],
           grad fn=<Unique2Backward0>)
5121
5122 print dice: 0.47187912464141846,
                                       print_iou: 0.3087970018386841
5123 Epoch 23/499: 42%
                                 67/160 [10:40<14:37, 9.44s/it]masks_dr unique: tensor([-7.
    6754, -7.6681, -7.6486, ..., 11.5805, 11.5805, 11.5840],
5124
           grad_fn=<Unique2Backward0>)
5125 masks_dr unique: tensor([-7.6754, -7.6681, -7.6486, ..., 11.5805, 11.5805, 11.5840],
           grad_fn=<Unique2Backward0>)
5126
5127 print dice: 0.5945181846618652, print iou: 0.4229995608329773
```

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5128 Epoch 23/499: 42%
    6755, -7.6682, -7.6487, ..., 11.5761, 11.5761, 11.5796],
          grad fn=<Unique2Backward0>)
5130 masks_dr unique: tensor([-7.6755, -7.6682, -7.6487, ..., 11.5761, 11.5761, 11.5796],
          grad fn=<Unique2Backward0>)
5132 print_dice: 0.506932258605957, print_iou: 0.33952397108078003
5133 Epoch 23/499: 43%
    2566, -7.2472, -7.2297, ..., 11.7260, 11.7281, 11.7318],
5134
          grad_fn=<Unique2Backward0>)
5135 masks_dr unique: tensor([-7.2566, -7.2472, -7.2297, ..., 11.7260, 11.7281, 11.7318],
5136
          grad fn=<Unique2Backward0>)
5137 Epoch 23/499: 44%
                               70/160 [11:09<14:12, 9.48s/it]print_dice: 0.4537668526172638
        print iou: 0.2934660017490387
5138 masks_dr unique: tensor([-7.6773, -7.6700, -7.6504, ..., 11.5761, 11.5763, 11.5797],
5139
          grad fn=<Unique2Backward0>)
5140 masks_dr unique: tensor([-7.6773, -7.6700, -7.6504, ..., 11.5761, 11.5763, 11.5797],
          grad_fn=<Unique2Backward0>)
5142 Epoch 23/499: 44%
                               71/160 [11:18<14:08, 9.53s/it]print_dice: 0.5173230171203613
        print_iou: 0.34891149401664734
5143 masks_dr unique: tensor([-7.6134, -7.5984, -7.5868, ..., 12.9072, 12.9080, 12.9085],
          grad_fn=<Unique2Backward0>)
5145 masks_dr unique: tensor([-7.6134, -7.5984, -7.5868, ..., 12.9072, 12.9080, 12.9085],
          grad fn=<Unique2Backward0>)
5146
5147 Epoch 23/499: 45%
                              | 72/160 [11:27<13:52, 9.46s/it]print dice: 0.5382210612297058
        print_iou: 0.36819595098495483
5148 masks_dr unique: tensor([-7.4420, -7.4335, -7.4304, ..., 12.4513, 12.4525, 12.4535],
          grad fn=<Unique2Backward0>)
5150 masks dr unique: tensor([-7.4420, -7.4335, -7.4304, ..., 12.4513, 12.4525, 12.4535],
          grad_fn=<Unique2Backward0>)
                               | 73/160 [11:37<13:39, 9.42s/it]print_dice: 0.430069237947464
5152 Epoch 23/499: 46%
        print_iou: 0.2739415466785431
5153 masks dr unique: tensor([-7.7699, -7.7560, -7.7454, ..., 11.7420, 11.7421, 11.7423],
          grad_fn=<Unique2Backward0>)
5155 masks_dr unique: tensor([-7.7699, -7.7560, -7.7454, ..., 11.7420, 11.7421, 11.7423],
          grad fn=<Unique2Backward0>)
5156
5157 Epoch 23/499: 46%
                              74/160 [11:46<13:29, 9.41s/it]print_dice: 0.5677847266197205
        print_iou: 0.3964380919933319
5158 masks dr unique: tensor([-8.0268, -8.0219, -8.0081, ..., 12.1053, 12.1114, 12.1163],
          grad_fn=<Unique2Backward0>)
5160 masks_dr unique: tensor([-8.0268, -8.0219, -8.0081, ..., 12.1053, 12.1114, 12.1163],
5161
          grad fn=<Unique2Backward0>)
5162 print_dice: 0.5928759574890137, print_iou: 0.421338826417923
8284, -7.8163, -7.8060, ..., 12.3994, 12.4011, 12.4065],
5164
          grad_fn=<Unique2Backward0>)
5165 masks_dr unique: tensor([-7.8284, -7.8163, -7.8060, ..., 12.3994, 12.4011, 12.4065],
          grad_fn=<Unique2Backward0>)
5167 print_dice: 0.5813077092170715, print_iou: 0.40974900126457214
5168 Epoch 23/499: 48%
    8456, -7.8336, -7.8248, ..., 12.5466, 12.5466, 12.5479],
5169
          grad_fn=<Unique2Backward0>)
5170 masks dr unique: tensor([-7.8456, -7.8336, -7.8248, ..., 12.5466, 12.5466, 12.5479],
5171
          grad_fn=<Unique2Backward0>)
5172 Epoch 23/499: 48%
                               77/160 [12:14<12:59, 9.40s/it]print_dice: 0.523604154586792
        print_iou: 0.35465025901794434
5173 masks_dr unique: tensor([-7.3409, -7.3283, -7.3215, ..., 11.5459, 11.5472, 11.5479],
          grad_fn=<Unique2Backward0>)
5174
5175 masks_dr unique: tensor([-7.3409, -7.3283, -7.3215, ..., 11.5459, 11.5472, 11.5479],
          grad fn=<Unique2Backward0>)
                                  print_iou: 0.40780022740364075
5177 print_dice: 0.579343855381012,
5178 Epoch 23/499: 49%
                            | 78/160 [12:24<12:51, 9.41s/it]masks dr unique: tensor([-7.
    9587, -7.9527, -7.9466, ..., 12.1858, 12.1861, 12.1868],
          grad_fn=<Unique2Backward0>)
5179
5180 masks_dr unique: tensor([-7.9587, -7.9527, -7.9466, ..., 12.1858, 12.1861, 12.1868],
5181
          grad_fn=<Unique2Backward0>)
5182 print dice: 0.4465063512325287, print iou: 0.28742077946662903
5183 Epoch 23/499: 49%
                               | 79/160 [12:33<12:40, 9.38s/it]masks_dr unique: tensor([-7.
    4954, -7.4910, -7.4752, ..., 12.0402, 12.0430, 12.0455],
5184
          grad fn=<Unique2Backward0>)
```

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5185 masks dr unique: tensor([-7.4954, -7.4910, -7.4752, ..., 12.0402, 12.0430, 12.0455],
           grad fn=<Unique2Backward0>)
5187 print dice: 0.516351580619812, print iou: 0.3480282425880432
5188 Epoch 23/499: 50%| | 80/160 [12:43<12:30, 9.38s/it]masks_dr unique: tensor([-7.
    6828, -7.6753, -7.6554, ..., 11.5828, 11.5832, 11.5865],
5189
           grad_fn=<Unique2Backward0>)
5190 masks_dr unique: tensor([-7.6828, -7.6753, -7.6554, ..., 11.5828, 11.5832, 11.5865],
           grad_fn=<Unique2Backward0>)
5191
5192 print_dice: 0.5360110402107239, print_iou: 0.3661305606365204
5193 Epoch 23/499: 51%| | 81/160 [12:52<12:21, 9.39s/it]masks_dr unique: tensor([-7.
    4745, -7.4669, -7.4594, ..., 12.9114, 12.9131, 12.9133],
5194
           grad_fn=<Unique2Backward0>)
5195 masks_dr unique: tensor([-7.4745, -7.4669, -7.4594, ..., 12.9114, 12.9131, 12.9133],
           grad fn=<Unique2Backward0>)
5197 Epoch 23/499: 51%
                                 82/160 [13:01<12:10, 9.37s/it]print_dice: 0.421577125787735
        print iou: 0.26708757877349854
5198 masks_dr unique: tensor([-7.8292, -7.8226, -7.8173, ..., 12.6682, 12.6691, 12.6736],
           grad_fn=<Unique2Backward0>)
5200 masks_dr unique: tensor([-7.8292, -7.8226, -7.8173, ..., 12.6682, 12.6691, 12.6736],
           grad_fn=<Unique2Backward0>)
5202 print_dice: 0.5095857381820679, print_iou: 0.3419087827205658
5203 Epoch 23/499: 52% | 83/160 [13:11<12:05, 9.42s/it]masks_dr unique: tensor([-7.
    4038, -7.4028, -7.3937, ..., 11.5844, 11.5887, 11.5899],
5204
           grad_fn=<Unique2Backward0>)
5205 masks_dr unique: tensor([-7.4038, -7.4028, -7.3937, ..., 11.5844, 11.5887, 11.5899],
5206
           grad_fn=<Unique2Backward0>)
                                 84/160 [13:20<11:57, 9.44s/it]print dice: 0.5071520209312439
5207 Epoch 23/499: 52%
        print iou: 0.339721143245697
5208 masks_dr unique: tensor([-7.5393, -7.5358, -7.5215, ..., 13.0310, 13.0325, 13.0351],
           grad fn=<Unique2Backward0>)
5210 masks_dr unique: tensor([-7.5393, -7.5358, -7.5215, ..., 13.0310, 13.0325, 13.0351],
5211
           grad_fn=<Unique2Backward0>)
5212 Epoch 23/499: 53%
                                 85/160 [13:30<11:46, 9.42s/it]print_dice: 0.5060247778892517
        print_iou: 0.33871030807495117
5213 masks dr unique: tensor([-7.6860, -7.6786, -7.6585, ..., 11.5829, 11.5830, 11.5864],
           grad_fn=<Unique2Backward0>)
5214
5215 masks_dr unique: tensor([-7.6860, -7.6786, -7.6585, ..., 11.5829, 11.5830, 11.5864],
5216
           grad_fn=<Unique2Backward0>)
5217 print_dice: 0.5396726727485657, print_iou: 0.3695559501647949
5218 Epoch 23/499: 54%| | 86/160 [13:39<11:36, 9.41s/it]masks_dr unique: tensor([-7.
    3891, -7.3869, -7.3748, ..., 12.9580, 12.9584, 12.9625],
5219
           grad_fn=<Unique2Backward0>)
5220 masks_dr unique: tensor([-7.3891, -7.3869, -7.3748, ..., 12.9580, 12.9584, 12.9625],
           grad_fn=<Unique2Backward0>)
                                 87/160 [13:48<11:27, 9.42s/it]print_dice: 0.4994823634624481
5222 Epoch 23/499: 54%
        print_iou: 0.3328733444213867
5223 masks_dr unique: tensor([-7.6855, -7.6780, -7.6579, ..., 11.5842, 11.5847, 11.5880],
5224
           grad_fn=<Unique2Backward0>)
5225 masks_dr unique: tensor([-7.6855, -7.6780, -7.6579, ..., 11.5842, 11.5847, 11.5880],
           grad_fn=<Unique2Backward0>)
5227 print_dice: 0.46843093633651733,
                                      print_iou: 0.3058503568172455
5228 Epoch 23/499: 55%
                                | 88/160 [13:58<11:20, 9.45s/it]masks_dr unique: tensor([-7.
    6871, -7.6796, -7.6596, ..., 11.5854, 11.5859, 11.5892],
5229
           grad_fn=<Unique2Backward0>)
5230 masks_dr unique: tensor([-7.6871, -7.6796, -7.6596, ..., 11.5854, 11.5859, 11.5892],
           grad_fn=<Unique2Backward0>)
5231
5232 Epoch 23/499: 56%
                                | 89/160 [14:07<11:09, 9.43s/it]print_dice: 0.5443653464317322
        print_iou: 0.3739711344242096
5233 masks_dr unique: tensor([-7.6864, -7.6789, -7.6588, ..., 11.5845, 11.5849, 11.5883],
           grad fn=<Unique2Backward0>)
5234
5235 masks_dr unique: tensor([-7.6864, -7.6789, -7.6588, ..., 11.5845, 11.5849, 11.5883],
5236
           grad_fn=<Unique2Backward0>)
                                     print_iou: 0.34403157234191895
5237 print_dice: 0.5119397044181824,
5238 Epoch 23/499: 56%
                               90/160 [14:17<10:58, 9.41s/it]masks_dr unique: tensor([-7.
    6874, -7.6799, -7.6598, ..., 11.5858, 11.5858, 11.5893],
5239
           grad_fn=<Unique2Backward0>)
5240 masks_dr unique: tensor([-7.6874, -7.6799, -7.6598, ..., 11.5858, 11.5858, 11.5893],
           grad_fn=<Unique2Backward0>)
5241
5242 print dice: 0.506998598575592,
                                    print_iou: 0.33958345651626587
```

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5243 Epoch 23/499: 57% 91/160 [14:26<10:46, 9.38s/it]masks dr unique: tensor([-7.
    6894, -7.6819, -7.6619, ..., 11.5859, 11.5864, 11.5897,
           grad fn=<Unique2Backward0>)
5245 masks_dr unique: tensor([-7.6894, -7.6819, -7.6619, ..., 11.5859, 11.5864, 11.5897],
           grad_fn=<Unique2Backward0>)
5247 print_dice: 0.5542221665382385, print_iou: 0.38333842158317566
5248 Epoch 23/499: 57%| 92/160 [14:35<10:38, 9.39s/it]masks_dr unique: tensor([-7.
    5339, -7.5258, -7.5235, ..., 12.0443, 12.0490, 12.0551],
5249
           grad_fn=<Unique2Backward0>)
5250 masks_dr unique: tensor([-7.5339, -7.5258, -7.5235, ..., 12.0443, 12.0490, 12.0551],
           grad fn=<Unique2Backward0>)
5251
5252 Epoch 23/499: 58%
                                 93/160 [14:45<10:29, 9.40s/it]print_dice: 0.5353260636329651
        print_iou: 0.365491658449173
5253 masks_dr unique: tensor([-7.6896, -7.6821, -7.6621, ..., 11.5846, 11.5849, 11.5883],
5254
           grad_fn=<Unique2Backward0>)
5255 masks_dr unique: tensor([-7.6896, -7.6821, -7.6621, ..., 11.5846, 11.5849, 11.5883],
           grad_fn=<Unique2Backward0>)
5257 Epoch 23/499: 59%
                                 94/160 [14:54<10:20, 9.40s/it]print_dice: 0.4484023153781891
        print_iou: 0.2889939248561859
5258 masks_dr unique: tensor([-7.8369, -7.8348, -7.8286, ..., 12.0786, 12.0839, 12.0891],
           grad_fn=<Unique2Backward0>)
5259
5260 masks_dr unique: tensor([-7.8369, -7.8348, -7.8286, ..., 12.0786, 12.0839, 12.0891],
           grad fn=<Unique2Backward0>)
5261
5262 print_dice: 0.482052206993103, print_iou: 0.3175683617591858
5263 Epoch 23/499: 59% 95/160 [15:04<10:14, 9.45s/it]masks_dr unique: tensor([-7.
    4281, -7.4216, -7.4152, ..., 12.2362, 12.2370, 12.2397],
5264
           grad fn=<Unique2Backward0>)
5265 masks_dr unique: tensor([-7.4281, -7.4216, -7.4152, ..., 12.2362, 12.2370, 12.2397],
           grad_fn=<Unique2Backward0>)
5267 Epoch 23/499: 60%
                                 96/160 [15:13<10:02, 9.41s/it]print_dice: 0.5237408876419067
        print_iou: 0.35477572679519653
5268 masks_dr unique: tensor([-7.6532, -7.6432, -7.6346, ..., 12.6091, 12.6098, 12.6103],
           grad_fn=<Unique2Backward0>)
5270 masks_dr unique: tensor([-7.6532, -7.6432, -7.6346, ..., 12.6091, 12.6098, 12.6103],
           grad fn=<Unique2Backward0>)
5271
5272 print_dice: 0.5596193671226501, print_iou: 0.38852187991142273
5273 Epoch 23/499: 61% 97/160 [15:23<09:54, 9.43s/it] masks_dr unique: tensor([-7.
    6195, -7.6163, -7.6053, ..., 11.6328, 11.6382, 11.6433],
5274
           grad_fn=<Unique2Backward0>)
5275 masks_dr unique: tensor([-7.6195, -7.6163, -7.6053, ..., 11.6328, 11.6382, 11.6433],
5276
           grad fn=<Unique2Backward0>)
                                 98/160 [15:32<09:45, 9.44s/it]print_dice: 0.4433349370956421
5277 Epoch 23/499: 61%
        print_iou: 0.28479790687561035
5278 masks_dr unique: tensor([-7.5522, -7.5477, -7.5360, ..., 13.0737, 13.0760, 13.0799],
5279
           grad_fn=<Unique2Backward0>)
5280 masks_dr unique: tensor([-7.5522, -7.5477, -7.5360, ..., 13.0737, 13.0760, 13.0799],
           grad_fn=<Unique2Backward0>)
5281
5282 print_dice: 0.4426891803741455, print_iou: 0.2842651307582855
5283 Epoch 23/499: 62% 99/160 [15:42<09:37, 9.47s/it]masks_dr unique: tensor([-7.
    6977, -7.6901, -7.6699, ..., 11.5884, 11.5888, 11.5921],
5284
           grad_fn=<Unique2Backward0>)
5285 masks_dr unique: tensor([-7.6977, -7.6901, -7.6699, ..., 11.5884, 11.5888, 11.5921],
5286
           grad fn=<Unique2Backward0>)
5287 Epoch 23/499: 62% | 100/160 [15:51<09:27, 9.46s/it]print_dice: 0.
    5446068644523621, print_iou: 0.37419915199279785
5288 masks_dr unique: tensor([-7.6694, -7.6686, -7.6544, ..., 11.9898, 11.9959, 12.0013],
           grad_fn=<Unique2Backward0>)
5289
5290 masks_dr unique: tensor([-7.6694, -7.6686, -7.6544, ..., 11.9898, 11.9959, 12.0013],
           grad fn=<Unique2Backward0>)
5292 Epoch 23/499: 63%
                                 | 101/160 [16:01<09:19, 9.48s/it]print_dice: 0.
                      print_iou: 0.3531465530395508
    5219634771347046,
      [100/160] eta: 0:09:30
                                time: 9.4348 data: 0.0005
5293
5294 masks_dr unique: tensor([-7.6978, -7.6902, -7.6699, ..., 11.5883, 11.5886, 11.5920],
           grad fn=<Unique2Backward0>)
5296 masks_dr unique: tensor([-7.6978, -7.6902, -7.6699, ..., 11.5883, 11.5886, 11.5920],
           grad_fn=<Unique2Backward0>)
5297
5298 Epoch 23/499: 64%
                                 | 102/160 [16:10<09:10, 9.50s/it]print_dice: 0.
                      print_iou: 0.3430445194244385
    5108460783958435,
5299 masks_dr unique: tensor([-7.6987, -7.6910, -7.6707, ..., 11.5881, 11.5888, 11.5919],
```

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grad fn=<Unique2Backward0>)
5301 masks_dr unique: tensor([-7.6987, -7.6910, -7.6707, ..., 11.5881, 11.5888, 11.5919],
           grad fn=<Unique2Backward0>)
5303 print_dice: 0.5390891432762146,
                                     print_iou: 0.36900895833969116
5304 Epoch 23/499: 64%| 103/160 [16:20<09:03, 9.54s/it]masks_dr unique: tensor([-7.
    6903, -7.6773, -7.6667, ..., 12.0489, 12.0503, 12.0508],
           grad fn=<Unique2Backward0>)
5305
5306 masks_dr unique: tensor([-7.6903, -7.6773, -7.6667, ..., 12.0489, 12.0503, 12.0508],
           grad_fn=<Unique2Backward0>)
5308 print dice: 0.533841073513031, print iou: 0.3641086220741272
5309 Epoch 23/499: 65%| 104/160 [16:29<08:48, 9.44s/it]masks_dr unique: tensor([-7.
    7013, -7.6937, -7.6733, ..., 11.5919, 11.5921, 11.5955],
5310
           grad_fn=<Unique2Backward0>)
5311 masks dr unique: tensor([-7.7013, -7.6937, -7.6733, ..., 11.5919, 11.5921, 11.5955],
5312
           grad_fn=<Unique2Backward0>)
5313 print_dice: 0.5533870458602905, print_iou: 0.3825398087501526
5314 Epoch 23/499: 66%| 105/160 [16:38<08:38, 9.43s/it]masks_dr unique: tensor([-7.
    4376, -7.4323, -7.4165, ..., 11.9573, 11.9607, 11.9630],
5315
           grad_fn=<Unique2Backward0>)
5316 masks_dr unique: tensor([-7.4376, -7.4323, -7.4165, ..., 11.9573, 11.9607, 11.9630],
           grad_fn=<Unique2Backward0>)
5317
5318 Epoch 23/499: 66%
                                | 106/160 [16:48<08:29, 9.44s/it]print_dice: 0.
    5211595296859741, print_iou: 0.3524109125137329
5319 masks_dr unique: tensor([-7.8991, -7.8861, -7.8785, ..., 12.5392, 12.5416, 12.5421],
           grad fn=<Unique2Backward0>)
5320
5321 masks_dr unique: tensor([-7.8991, -7.8861, -7.8785, ..., 12.5392, 12.5416, 12.5421],
5322
           grad fn=<Unique2Backward0>)
5323 Epoch 23/499: 67% | 107/160 [16:58<08:23, 9.50s/it]print_dice: 0.
    4755153954029083, print_iou: 0.31191879510879517
5324 masks_dr unique: tensor([-7.7023, -7.6945, -7.6740, ..., 11.5923, 11.5926, 11.5960],
           grad_fn=<Unique2Backward0>)
5326 masks_dr unique: tensor([-7.7023, -7.6945, -7.6740, ..., 11.5923, 11.5926, 11.5960],
           grad_fn=<Unique2Backward0>)
5328 Epoch 23/499: 68% | 108/160 [17:07<08:15, 9.53s/it]print_dice: 0.
    6133418679237366, print_iou: 0.44231653213500977
5329 masks_dr unique: tensor([-7.6159, -7.5892, -7.5886, ..., 11.8724, 11.8737, 11.8789],
           grad_fn=<Unique2Backward0>)
5330
5331 masks_dr unique: tensor([-7.6159, -7.5892, -7.5886, ..., 11.8724, 11.8737, 11.8789],
           grad_fn=<Unique2Backward0>)
5333 print dice: 0.6035539507865906, print_iou: 0.4322071671485901
5334 Epoch 23/499: 68% | 109/160 [17:16<08:03, 9.48s/it]masks_dr unique: tensor([-7.
    5653, -7.5613, -7.5514, ..., 12.3898, 12.3910, 12.3933],
           grad_fn=<Unique2Backward0>)
5336 masks_dr unique: tensor([-7.5653, -7.5613, -7.5514, ..., 12.3898, 12.3910, 12.3933],
5337
           grad_fn=<Unique2Backward0>)
5338 Epoch 23/499: 69%| | 110/160 [17:26<07:51, 9.44s/it]print_dice: 0.
    5688961744308472, print_iou: 0.39752262830734253
5339 masks_dr unique: tensor([-7.5981, -7.5889, -7.5784, ..., 11.6954, 11.7013, 11.7055],
5340
           grad_fn=<Unique2Backward0>)
5341 masks_dr unique: tensor([-7.5981, -7.5889, -7.5784, ..., 11.6954, 11.7013, 11.7055],
5342
           grad_fn=<Unique2Backward0>)
5343 Epoch 23/499: 69% | 111/160 [17:35<07:41, 9.43s/it]print_dice: 0.
    5651764869689941, print_iou: 0.3938996493816376
5344 masks_dr unique: tensor([-7.6981, -7.6902, -7.6697, ..., 11.5930, 11.5931, 11.5966],
           grad_fn=<Unique2Backward0>)
5346 masks_dr unique: tensor([-7.6981, -7.6902, -7.6697, ..., 11.5930, 11.5931, 11.5966],
           grad fn=<Unique2Backward0>)
5347
5348 print_dice: 0.506305992603302,
                                    print_iou: 0.3389623165130615
5349 Epoch 23/499: 70%
                                 | 112/160 [17:45<07:32, 9.43s/it]masks_dr unique: tensor([-7.
    6981, -7.6902, -7.6697, ..., 11.5938, 11.5939, 11.5974],
5350
           grad_fn=<Unique2Backward0>)
5351 masks_dr unique: tensor([-7.6981, -7.6902, -7.6697, ..., 11.5938, 11.5939, 11.5974],
5352
           grad fn=<Unique2Backward0>)
5353 print_dice: 0.5202973484992981, print_iou: 0.35162287950515747
5354 Epoch 23/499: 71%| | 113/160 [17:54<07:26, 9.49s/it]masks_dr unique: tensor([-7.
    6976, -7.6897, -7.6691, ..., 11.5900, 11.5912, 11.5940],
5355
           grad fn=<Unique2Backward0>)
5356 masks_dr unique: tensor([-7.6976, -7.6897, -7.6691, ..., 11.5900, 11.5912, 11.5940],
5357
           grad fn=<Unique2Backward0>)
```

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5358 print dice: 0.541830837726593,
                                  print iou: 0.371582955121994
5359 Epoch 23/499: 71%| 114/160 [18:04<07:14, 9.45s/it]masks_dr unique: tensor([-7.
    5274, -7.5021, -7.5004, ..., 11.8835, 11.8837, 11.8877],
5360
           grad fn=<Unique2Backward0>)
5361 masks_dr unique: tensor([-7.5274, -7.5021, -7.5004, ..., 11.8835, 11.8837, 11.8877],
           grad fn=<Unique2Backward0>)
5363 print_dice: 0.526158332824707, print_iou: 0.35699787735939026
5364 Epoch 23/499: 72%| 115/160 [18:13<07:04, 9.42s/it]masks_dr unique: tensor([-7.
    7828, -7.7779, -7.7626, ..., 12.7496, 12.7517, 12.7518],
           grad fn=<Unique2Backward0>)
5365
5366 masks_dr unique: tensor([-7.7828, -7.7779, -7.7626, ..., 12.7496, 12.7517, 12.7518],
           grad fn=<Unique2Backward0>)
5367
5368 print_dice: 0.5503014326095581, print_iou: 0.37959712743759155
5369 Epoch 23/499: 72%| | 116/160 [18:22<06:55, 9.45s/it]masks_dr unique: tensor([-7.
    8890, -7.8840, -7.8797, ..., 12.7539, 12.7554, 12.7560],
5370
           grad fn=<Unique2Backward0>)
5371 masks_dr unique: tensor([-7.8890, -7.8840, -7.8797, ..., 12.7539, 12.7554, 12.7560],
           grad_fn=<Unique2Backward0>)
5372
5873618125915527, print_iou: 0.4157906770706177
5374 masks_dr unique: tensor([-7.7737, -7.7704, -7.7648, ..., 12.2548, 12.2560, 12.2565],
5375
           grad_fn=<Unique2Backward0>)
5376 masks dr unique: tensor([-7.7737, -7.7704, -7.7648, ..., 12.2548, 12.2560, 12.2565],
5377
           grad_fn=<Unique2Backward0>)
5378 Epoch 23/499: 74% | 118/160 [18:41<06:36, 9.43s/it]print_dice: 0.
    5346738696098328, print_iou: 0.3648838698863983
5379 masks_dr unique: tensor([-7.6022, -7.5837, -7.5726, ..., 12.1474, 12.1549, 12.1598],
           grad_fn=<Unique2Backward0>)
5380
5381 masks dr unique: tensor([-7.6022, -7.5837, -7.5726, ..., 12.1474, 12.1549, 12.1598],
           grad fn=<Unique2Backward0>)
5382
5383 Epoch 23/499: 74% | 119/160 [18:51<06:25, 9.39s/it]print_dice: 0.
    5903044939041138, print_iou: 0.41874611377716064
5384 masks_dr unique: tensor([-7.5964, -7.5647, -7.5641, ..., 11.2576, 11.2626, 11.2673],
           grad fn=<Unique2Backward0>)
5385
5386 masks dr unique: tensor([-7.5964, -7.5647, -7.5641, ..., 11.2576, 11.2626, 11.2673],
           grad_fn=<Unique2Backward0>)
5388 print dice: 0.47629716992378235,
                                     print_iou: 0.31259191036224365
5389 Epoch 23/499: 75% | 120/160 [19:00<06:16, 9.42s/it]masks_dr unique: tensor([-7.
    6922, -7.6840, -7.6631, ..., 11.5960, 11.5966, 11.5998],
5390
           grad fn=<Unique2Backward0>)
5391 masks_dr unique: tensor([-7.6922, -7.6840, -7.6631, ..., 11.5960, 11.5966, 11.5998],
5392
           grad_fn=<Unique2Backward0>)
5393 Epoch 23/499: 76% | 121/160 [19:10<06:07, 9.43s/it]print_dice: 0.
    5496400594711304, print_iou: 0.3789680302143097
5394 masks_dr unique: tensor([-7.4142, -7.4129, -7.4081, ..., 11.4785, 11.4820, 11.4885],
           grad_fn=<Unique2Backward0>)
5396 masks_dr unique: tensor([-7.4142, -7.4129, -7.4081, ..., 11.4785, 11.4820, 11.4885],
           grad_fn=<Unique2Backward0>)
5397
5398 Epoch 23/499: 76% | 122/160 [19:19<05:58, 9.43s/it]print_dice: 0.
    4801635444164276, print_iou: 0.3159310519695282
5399 masks_dr unique: tensor([-7.5736, -7.5524, -7.5505, ..., 11.6878, 11.6953, 11.6985],
           grad fn=<Unique2Backward0>)
5400
5401 masks_dr unique: tensor([-7.5736, -7.5524, -7.5505, ..., 11.6878, 11.6953, 11.6985],
           grad_fn=<Unique2Backward0>)
5402
5403 Epoch 23/499: 77% | 123/160 [19:28<05:48, 9.42s/it]print_dice: 0.
    5571590065956116, print_iou: 0.3861541450023651
5404 masks_dr unique: tensor([-7.6886, -7.6803, -7.6592, ..., 11.5963, 11.5968, 11.6001],
           grad_fn=<Unique2Backward0>)
5405
5406 masks_dr unique: tensor([-7.6886, -7.6803, -7.6592, ..., 11.5963, 11.5968, 11.6001],
           grad fn=<Unique2Backward0>)
5407
5408 Epoch 23/499: 78% | 124/160 [19:38<05:38, 9.41s/it]print dice: 0.517611563205719
        print_iou: 0.34917402267456055
5409 masks_dr unique: tensor([-7.6878, -7.6795, -7.6584, ..., 11.5971, 11.5975, 11.6008],
           grad fn=<Unique2Backward0>)
5411 masks_dr unique: tensor([-7.6878, -7.6795, -7.6584, ..., 11.5971, 11.5975, 11.6008],
           grad fn=<Unique2Backward0>)
5412
5413 Epoch 23/499: 78%
                                                       9.45s/it]print_dice: 0.
    5150155425071716,
                       print_iou: 0.34681546688079834
5414 masks_dr unique: tensor([-7.6887, -7.6804, -7.6593, ..., 11.5986, 11.5990, 11.6024],
```

```
5415
           grad fn=<Unique2Backward0>)
5416 masks_dr unique: tensor([-7.6887, -7.6804, -7.6593, ..., 11.5986, 11.5990, 11.6024],
           grad_fn=<Unique2Backward0>)
5418 Epoch 23/499: 79%| | 126/160 [19:57<05:23, 9.51s/it]print_dice: 0.
    6176409721374512, print_iou: 0.44680213928222656
5419 masks_dr unique: tensor([-7.4419, -7.4335, -7.4154, ..., 12.0688, 12.0710, 12.0739],
           grad_fn=<Unique2Backward0>)
5421 masks_dr unique: tensor([-7.4419, -7.4335, -7.4154, ..., 12.0688, 12.0710, 12.0739],
5422
           grad_fn=<Unique2Backward0>)
5423 Epoch 23/499: 79% | 127/160 [20:06<05:13, 9.49s/it]print_dice: 0.
    48477739095687866, print_iou: 0.319938063621521
5424 masks_dr unique: tensor([-7.6706, -7.6694, -7.6417, ..., 12.0332, 12.0396, 12.0452],
           grad_fn=<Unique2Backward0>)
5425
5426 masks_dr unique: tensor([-7.6706, -7.6694, -7.6417, ..., 12.0332, 12.0396, 12.0452],
           grad fn=<Unique2Backward0>)
5427
5428 print_dice: 0.5556249022483826, print_iou: 0.3846818506717682
5429 Epoch 23/499: 80%| | 128/160 [20:16<05:01, 9.41s/it]masks_dr unique: tensor([-7.
    4961, -7.4912, -7.4726, ..., 11.7445, 11.7506, 11.7555],
5430
           grad_fn=<Unique2Backward0>)
5431 masks_dr unique: tensor([-7.4961, -7.4912, -7.4726, ..., 11.7445, 11.7506, 11.7555],
           grad_fn=<Unique2Backward0>)
5432
5433 Epoch 23/499: 81%
                               | 129/160 [20:25<04:52, 9.44s/it]print_dice: 0.515728235244751
        print iou: 0.34746211767196655
5434 masks_dr unique: tensor([-7.6919, -7.6816, -7.6795, ..., 12.3463, 12.3524, 12.3578],
           grad_fn=<Unique2Backward0>)
5435
5436 masks_dr unique: tensor([-7.6919, -7.6816, -7.6795, ..., 12.3463, 12.3524, 12.3578],
5437
           grad fn=<Unique2Backward0>)
5438 Epoch 23/499: 81% | 130/160 [20:35<04:43, 9.44s/it]print_dice: 0.
    49742791056632996, print_iou: 0.33105093240737915
5439 masks dr unique: tensor([-7.6885, -7.6802, -7.6592, ..., 11.6007, 11.6012, 11.6044],
           grad_fn=<Unique2Backward0>)
5441 masks_dr unique: tensor([-7.6885, -7.6802, -7.6592, ..., 11.6007, 11.6012, 11.6044],
           grad fn=<Unique2Backward0>)
5443 print_dice: 0.5683450102806091, print_iou: 0.39698460698127747
5444 Epoch 23/499: 82% | 131/160 [20:44<04:33, 9.44s/it]masks_dr unique: tensor([-7.
    4852, -7.4818, -7.4687, ..., 12.9897, 12.9919, 12.9958],
5445
           grad fn=<Unique2Backward0>)
5446 masks dr unique: tensor([-7.4852, -7.4818, -7.4687, ..., 12.9897, 12.9919, 12.9958],
           grad_fn=<Unique2Backward0>)
5448 Epoch 23/499: 82% | 132/160 [20:54<04:24, 9.46s/it]print_dice: 0.
                      print_iou: 0.3887197971343994
    5598246455192566,
5449 masks dr unique: tensor([-7.6906, -7.6823, -7.6612, ..., 11.6016, 11.6020, 11.6053],
5450
           grad_fn=<Unique2Backward0>)
5451 masks_dr unique: tensor([-7.6906, -7.6823, -7.6612, ..., 11.6016, 11.6020, 11.6053],
5452
           grad_fn=<Unique2Backward0>)
5453 Epoch 23/499: 83%| 33/160 [21:03<04:15, 9.46s/it]print_dice: 0.577146589756012
        print_iou: 0.40562617778778076
5454 masks_dr unique: tensor([-7.4493, -7.4313, -7.4243, ..., 12.2258, 12.2316, 12.2359],
5455
           grad_fn=<Unique2Backward0>)
5456 masks_dr unique: tensor([-7.4493, -7.4313, -7.4243, ..., 12.2258, 12.2316, 12.2359],
5457
           grad_fn=<Unique2Backward0>)
5458 print_dice: 0.5809445977210999, print_iou: 0.4093882143497467
5459 Epoch 23/499: 84%| 84%| | 134/160 [21:13<04:06, 9.49s/it]masks_dr unique: tensor([-7.
    6910, -7.6827, -7.6616, ..., 11.6014, 11.6019, 11.6051],
           grad_fn=<Unique2Backward0>)
5461 masks_dr unique: tensor([-7.6910, -7.6827, -7.6616, ..., 11.6014, 11.6019, 11.6051],
5462
           grad_fn=<Unique2Backward0>)
5463 print_dice: 0.544788658618927,
                                   print iou: 0.374370813369751
6815, -7.6753, -7.6644, ..., 12.2456, 12.2488, 12.2544],
5465
           grad_fn=<Unique2Backward0>)
5466 masks_dr unique: tensor([-7.6815, -7.6753, -7.6644, ..., 12.2456, 12.2488, 12.2544],
           grad_fn=<Unique2Backward0>)
5467
5468 Epoch 23/499: 85% | 136/160 [21:32<03:47, 9.50s/it]print_dice: 0.
    4950704872608185,
                       print_iou: 0.3289659023284912
5469 masks_dr unique: tensor([-7.6912, -7.6829, -7.6618, ..., 11.6017, 11.6020, 11.6053],
5470
           grad fn=<Unique2Backward0>)
5471 masks_dr unique: tensor([-7.6912, -7.6829, -7.6618, ..., 11.6017, 11.6020, 11.6053],
5472
           grad fn=<Unique2Backward0>)
```

```
5473 Epoch 23/499: 86% | 137/160 [21:41<03:38, 9.51s/it]print dice: 0.
    5557349324226379, print_iou: 0.38478735089302063
5474 masks dr unique: tensor([-7.8853, -7.8586, -7.8517, ..., 11.5811, 11.5856, 11.5905],
5475
           grad fn=<Unique2Backward0>)
5476 masks_dr unique: tensor([-7.8853, -7.8586, -7.8517, ..., 11.5811, 11.5856, 11.5905],
5477
           grad_fn=<Unique2Backward0>)
5478 Epoch 23/499: 86% | 138/160 [21:51<03:29, 9.50s/it]print_dice: 0.
    5154352784156799, print_iou: 0.34719622135162354
5479 masks_dr unique: tensor([-7.6815, -7.6743, -7.6671, ..., 12.9156, 12.9157, 12.9174],
           grad fn=<Unique2Backward0>)
5480
5481 masks dr unique: tensor([-7.6815, -7.6743, -7.6671, ..., 12.9156, 12.9157, 12.9174],
           grad fn=<Unique2Backward0>)
5482
5483 Epoch 23/499: 87% | 139/160 [22:00<03:19, 9.50s/it]print_dice: 0.
    5437625050544739, print iou: 0.37340235710144043
5484 masks_dr unique: tensor([-7.4175, -7.3929, -7.3857, ..., 12.0149, 12.0202, 12.0258],
           grad fn=<Unique2Backward0>)
5486 masks_dr unique: tensor([-7.4175, -7.3929, -7.3857, ..., 12.0149, 12.0202, 12.0258],
5487
           grad_fn=<Unique2Backward0>)
5488 Epoch 23/499: 88%| | 140/160 [22:10<03:08, 9.44s/it]print_dice: 0.
    4818340539932251, print_iou: 0.31737902760505676
5489 masks_dr unique: tensor([-7.6947, -7.6864, -7.6653, ..., 11.6033, 11.6036, 11.6069],
5490
           grad_fn=<Unique2Backward0>)
5491 masks_dr unique: tensor([-7.6947, -7.6864, -7.6653, ..., 11.6033, 11.6036, 11.6069],
5492
           grad_fn=<Unique2Backward0>)
5493 Epoch 23/499: 88% | 141/160 [22:19<02:59, 9.43s/it]print dice: 0.
    5620263814926147, print_iou: 0.3908461034297943
5494 masks_dr unique: tensor([-7.5933, -7.5821, -7.5785, ..., 11.8448, 11.8488, 11.8491],
5495
           grad fn=<Unique2Backward0>)
5496 masks_dr unique: tensor([-7.5933, -7.5821, -7.5785, ..., 11.8448, 11.8488, 11.8491],
5497
           grad fn=<Unique2Backward0>)
5498 Epoch 23/499: 89% | 142/160 [22:28<02:50, 9.45s/it]print dice: 0.
    49221912026405334, print_iou: 0.32645267248153687
5499 masks_dr unique: tensor([-7.4013, -7.3981, -7.3918, ..., 12.0747, 12.0762, 12.0797],
5500
           grad_fn=<Unique2Backward0>)
5501 masks dr unique: tensor([-7.4013, -7.3981, -7.3918, ..., 12.0747, 12.0762, 12.0797],
           grad_fn=<Unique2Backward0>)
5503 print_dice: 0.593106210231781, print_iou: 0.42157140374183655
5504 Epoch 23/499: 89%| 89%| 143/160 [22:38<02:41, 9.52s/it]masks_dr unique: tensor([-7.
    6970, -7.6887, -7.6675, ..., 11.6059, 11.6060, 11.6094],
5505
           grad fn=<Unique2Backward0>)
5506 masks_dr unique: tensor([-7.6970, -7.6887, -7.6675, ..., 11.6059, 11.6060, 11.6094],
5507
           grad_fn=<Unique2Backward0>)
5508 Epoch 23/499: 90% | 144/160 [22:48<02:31, 9.48s/it]print_dice: 0.
    5079448223114014, print_iou: 0.3404330015182495
5509 masks_dr unique: tensor([-7.6987, -7.6904, -7.6692, ..., 11.6082, 11.6084, 11.6118],
5510
           grad_fn=<Unique2Backward0>)
5511 masks_dr unique: tensor([-7.6987, -7.6904, -7.6692, ..., 11.6082, 11.6084, 11.6118],
5512
           grad_fn=<Unique2Backward0>)
5513 print_dice: 0.5665184855461121, print_iou: 0.3952046036720276
5514 Epoch 23/499: 91%| 145/160 [22:57<02:22, 9.47s/it]masks_dr unique: tensor([-7.
    6980, -7.6897, -7.6686, ..., 11.6043, 11.6046, 11.6080],
5515
           grad_fn=<Unique2Backward0>)
5516 masks_dr unique: tensor([-7.6980, -7.6897, -7.6686, ..., 11.6043, 11.6046, 11.6080],
           grad_fn=<Unique2Backward0>)
5517
5518 Epoch 23/499: 91%| | 146/160 [23:06<02:12, 9.47s/it]print_dice: 0.
    5151166319847107, print_iou: 0.3469071090221405
5519 masks dr unique: tensor([-7.6991, -7.6908, -7.6696, ..., 11.6043, 11.6046, 11.6079],
           grad_fn=<Unique2Backward0>)
5520
5521 masks_dr unique: tensor([-7.6991, -7.6908, -7.6696, ..., 11.6043, 11.6046, 11.6079],
5522
           grad_fn=<Unique2Backward0>)
5523 print_dice: 0.4528713524341583, print_iou: 0.292717307806015
5524 Epoch 23/499: 92%| 147/160 [23:16<02:03, 9.48s/it]masks_dr unique: tensor([-7.
    2373, -7.2300, -7.2265, ..., 11.9895, 11.9958, 12.0000],
5525
           grad fn=<Unique2Backward0>)
5526 masks dr unique: tensor([-7.2373, -7.2300, -7.2265, ..., 11.9895, 11.9958, 12.0000],
           grad fn=<Unique2Backward0>)
5527
5528 Epoch 23/499: 92%
                               | 148/160 [23:25<01:53, 9.46s/it]print_dice: 0.
                       print iou: 0.3828781247138977
    5537409782409668,
5529 masks dr unique: tensor([-7.7830, -7.7760, -7.7683, ..., 12.3677, 12.3747, 12.3801],
```

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grad fn=<Unique2Backward0>)
5531 masks_dr unique: tensor([-7.7830, -7.7760, -7.7683, ..., 12.3677, 12.3747, 12.3801],
           grad fn=<Unique2Backward0>)
5533 Epoch 23/499: 93% | 149/160 [23:35<01:43, 9.43s/it]print dice: 0.
    5432605743408203, print_iou: 0.3729291260242462
5534 masks_dr unique: tensor([-7.7008, -7.6924, -7.6712, ..., 11.6049, 11.6050, 11.6084],
5535
           grad_fn=<Unique2Backward0>)
5536 masks_dr unique: tensor([-7.7008, -7.6924, -7.6712, ..., 11.6049, 11.6050, 11.6084],
5537
           grad_fn=<Unique2Backward0>)
5538 Epoch 23/499: 94%| | | 150/160 [23:44<01:34, 9.47s/it]print_dice: 0.
    4871410131454468, print_iou: 0.32200029492378235
5539 masks_dr unique: tensor([-7.9257, -7.9106, -7.9029, ..., 12.1459, 12.1506, 12.1521],
5540
           grad_fn=<Unique2Backward0>)
5541 masks_dr unique: tensor([-7.9257, -7.9106, -7.9029, ..., 12.1459, 12.1506, 12.1521],
5542
           grad_fn=<Unique2Backward0>)
5543 print dice: 0.5154227018356323, print iou: 0.34718480706214905
5544 Epoch 23/499: 94%| 151/160 [23:54<01:25, 9.51s/it]masks_dr unique: tensor([-7.
    7238, -7.7203, -7.7135, ..., 12.1563, 12.1625, 12.1676],
5545
           grad_fn=<Unique2Backward0>)
5546 masks_dr unique: tensor([-7.7238, -7.7203, -7.7135, ..., 12.1563, 12.1625, 12.1676],
           grad_fn=<Unique2Backward0>)
5547
5548 print_dice: 0.5245433449745178, print_iou: 0.3555125296115875
5549 Epoch 23/499: 95%| | 152/160 [24:03<01:15, 9.49s/it]masks dr unique: tensor([-7.
    4985, -7.4937, -7.4888, ..., 12.2488, 12.2507, 12.2532],
           grad fn=<Unique2Backward0>)
5550
5551 masks_dr unique: tensor([-7.4985, -7.4937, -7.4888, ..., 12.2488, 12.2507, 12.2532],
           grad fn=<Unique2Backward0>)
5552
5553 print dice: 0.5455174446105957, print iou: 0.37505945563316345
5554 Epoch 23/499: 96%| 153/160 [24:13<01:06, 9.47s/it]masks_dr unique: tensor([-7.
    6981, -7.6898, -7.6687, ..., 11.6059, 11.6061, 11.6094],
           grad fn=<Unique2Backward0>)
5556 masks_dr unique: tensor([-7.6981, -7.6898, -7.6687, ..., 11.6059, 11.6061, 11.6094],
           grad_fn=<Unique2Backward0>)
5558 Epoch 23/499: 96%| | 154/160 [24:22<00:56, 9.41s/it]print_dice: 0.
    46811994910240173, print_iou: 0.30558523535728455
5559 masks dr unique: tensor([-7.6983, -7.6900, -7.6689, ..., 11.6063, 11.6066, 11.6099],
5560
           grad_fn=<Unique2Backward0>)
5561 masks_dr unique: tensor([-7.6983, -7.6900, -7.6689, ..., 11.6063, 11.6066, 11.6099],
5562
           grad_fn=<Unique2Backward0>)
print_iou: 0.3678763508796692
    5378795266151428,
5564 masks dr unique: tensor([-8.0698, -8.0615, -8.0514, ..., 12.9955, 12.9956, 12.9964],
5565
           grad_fn=<Unique2Backward0>)
5566 masks_dr unique: tensor([-8.0698, -8.0615, -8.0514, ..., 12.9955, 12.9956, 12.9964],
5567
           grad_fn=<Unique2Backward0>)
5568 print_dice: 0.48980310559272766, print_iou: 0.3243306279182434
5569 Epoch 23/499: 98%| 156/160 [24:41<00:37, 9.46s/it]masks_dr unique: tensor([-7.
    3378, -7.3360, -7.3312, ..., 11.7490, 11.7532, 11.7567],
5570
           grad_fn=<Unique2Backward0>)
5571 masks_dr unique: tensor([-7.3378, -7.3360, -7.3312, ..., 11.7490, 11.7532, 11.7567],
5572
           grad_fn=<Unique2Backward0>)
5573 Epoch 23/499: 98% 98% 157/160 [24:50<00:28, 9.44s/it]print_dice: 0.
    46477481722831726, print_iou: 0.3027404844760895
5574 masks_dr unique: tensor([-7.3305, -7.3284, -7.3263, ..., 12.2438, 12.2449, 12.2462],
           grad_fn=<Unique2Backward0>)
5576 masks_dr unique: tensor([-7.3305, -7.3284, -7.3263, ..., 12.2438, 12.2449, 12.2462],
           grad_fn=<Unique2Backward0>)
5577
5578 Epoch 23/499: 99%
                               158/160 [25:00<00:18, 9.45s/it]print_dice: 0.</pre>
    4738065302371979,
                       print_iou: 0.31044986844062805
5579 masks_dr unique: tensor([-7.5232, -7.4938, -7.4927, ..., 11.8054, 11.8098, 11.8153],
           grad_fn=<Unique2Backward0>)
5581 masks_dr unique: tensor([-7.5232, -7.4938, -7.4927, ..., 11.8054, 11.8098, 11.8153],
           grad_fn=<Unique2Backward0>)
5582
5583 Epoch 23/499: 99%
                               159/160 [25:09<00:09, 9.38s/it]print_dice: 0.
    5096416473388672, print_iou: 0.341959148645401
5584 masks_dr unique: tensor([-7.5229, -7.5067, -7.4985, ..., 11.7768, 11.7800, 11.7811],
           grad fn=<Unique2Backward0>)
5585
5586 masks dr unique: tensor([-7.5229, -7.5067, -7.4985, ..., 11.7768, 11.7800, 11.7811],
           grad fn=<Unique2Backward0>)
5587
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5588 Epoch 23/499: 100% | 160/160 [25:19<00:00, 9.42s/it]print dice: 0.563474714756012
        print_iou: 0.39224836230278015
5589 [159/160] eta: 0:00:09
                                 time: 9.4530 data: 0.0004
5590 Epoch 23/499: 100%| 100%| 160/160 [25:19<00:00, 9.50s/it]
5591 Total time: 0:25:19 (9.4981 s / it)
5592 Averaged stats: training_loss: -914.5815 (-914.5815) loss_mask: -914.3724 (-914.3724)
    loss dice: -0.2091 (-0.2091)
5593
      0%|
                   | 0/12 [00:00<?, ?it/s]Net parameter norm: 1054.4236900022952
5594 Validating...
5595 Valid dataloader len: 12
5596 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.9414e-04, 3.
    1198e-04, 3.8549e-04, ..., 1.0000e+00, 1.0000e+00,
5597
            1.0000e+00], grad_fn=<Unique2Backward0>)
5598 masks dr unique: tensor([5.6423e-04, 5.8411e-04, 5.8868e-04, ..., 1.0000e+00, 1.0000e+00,
5599
            1.0000e+00], grad_fn=<Unique2Backward0>)
                   | 1/12 [00:10<01:56, 10.59s/it]print_dice: 0.5560685396194458, print_iou: 0.
5600
    3851073086261749
      [ 0/12] eta: 0:02:07 time: 10.5880 data: 4.8617
5602 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.8269e-04, 3.
    1388e-04, 3.5301e-04, ..., 9.9999e-01, 9.9999e-01,
5603
            9.9999e-01], grad_fn=<Unique2Backward0>)
5604 masks_dr unique: tensor([5.5781e-04, 5.8097e-04, 5.9543e-04, ..., 9.9999e-01, 9.9999e-01,
5605
            9.9999e-01], grad_fn=<Unique2Backward0>)
5606 17%
                   | 2/12 [00:16<01:18, 7.88s/it]print_dice: 0.6050961017608643, print_iou: 0.
    43379053473472595
5607 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.5610e-04, 4.
    2027e-04, 4.4147e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
5608
5609 masks_dr unique: tensor([6.5596e-04, 6.5654e-04, 6.6883e-04, ..., 1.0000e+00, 1.0000e+00,
5610
            1.0000e+00], grad fn=<Unique2Backward0>)
                   | 3/12 [00:22<01:01, 6.89s/it]print_dice: 0.5270519256591797, print_iou: 0.
5611 25%
    35782110691070557
5612 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.3050e-04, 3.
    5692e-04, 3.6545e-04, ..., 9.9999e-01, 9.9999e-01,
5613
            9.9999e-01], grad_fn=<Unique2Backward0>)
5614 masks_dr unique: tensor([3.4960e-04, 3.5970e-04, 3.6599e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
5615
                   | 4/12 [00:28<00:52, 6.59s/it]print_dice: 0.5158753395080566, print_iou: 0.
5616 33%
    3475956916809082
5617 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.4879e-04, 2.
    5834e-04, 2.6721e-04, ..., 1.0000e+00, 1.0000e+00,
5618
            1.0000e+00], grad_fn=<Unique2Backward0>)
5619 masks_dr unique: tensor([4.4627e-04, 4.4824e-04, 4.5020e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
5621 print_dice: 0.5770154595375061, print_iou: 0.40549665689468384
                  5/12 [00:34<00:44, 6.29s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.2819e-04, 3.7177e-04, 3.9947e-04, ..., 9.9999e-01, 9.
    9999e-01,
5623
            9.9999e-01], grad_fn=<Unique2Backward0>)
5624 masks dr unique: tensor([5.7675e-04, 5.9328e-04, 5.9772e-04, ..., 9.9999e-01, 9.9999e-01,
5625
            9.9999e-01], grad_fn=<Unique2Backward0>)
5626 50%
                    6/12 [00:39<00:36, 6.12s/it]print_dice: 0.5059223175048828, print_iou: 0.
    3386184573173523
5627 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.6775e-04, 5.
    4993e-04, 5.7818e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
5628
5629 masks_dr unique: tensor([6.0260e-04, 6.1787e-04, 6.3315e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
5630
                    | 7/12 [00:46<00:30, 6.19s/it]print_dice: 0.43981075286865234, print_iou: 0
5631 58%
     .2818957567214966
5632 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([1.7285e-04, 1.
    8472e-04, 2.3120e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
5633
5634 masks dr unique: tensor([3.5405e-04, 3.6535e-04, 3.7646e-04, ..., 1.0000e+00, 1.0000e+00,
5635
            1.0000e+00], grad_fn=<Unique2Backward0>)
5636 print dice: 0.5461152791976929, print iou: 0.3756248950958252
                  8/12 [00:52<00:24, 6.05s/it]masks dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([4.1546e-04, 4.5791e-04, 4.6818e-04, ..., 1.0000e+00, 1.
    0000e+00,
```

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5638
            1.0000e+00], grad fn=<Unique2Backward0>)
5639 masks_dr unique: tensor([6.5679e-04, 6.5751e-04, 6.6075e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
5641 print dice: 0.5597079396247864, print iou: 0.3886072635650635
          | 9/12 [00:58<00:18, 6.20s/it]masks dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.3069e-04, 3.5716e-04, 3.6582e-04, ..., 9.9999e-01, 9.
    9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
5643
5644 masks_dr unique: tensor([5.4033e-04, 5.4403e-04, 5.5557e-04, ..., 9.9999e-01, 9.9999e-01,
5645
            9.9999e-01], grad fn=<Unique2Backward0>)
                 | | 10/12 [01:04<00:12, 6.02s/it]print dice: 0.5713907480239868, print iou: 0
5646 83%
    .3999629318714142
5647 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([1.8317e-04, 1.
    9391e-04, 2.2670e-04, ..., 9.9999e-01, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
5648
5649 masks_dr unique: tensor([3.7160e-04, 3.7589e-04, 3.7612e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
          | 11/12 [01:09<00:05, 5.87s/it]print_dice: 0.6198411583900452, print_iou: 0
     .4491085708141327
5652 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.2058e-04, 2.
    7604e-04, 2.7775e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
5653
5654 masks_dr unique: tensor([4.7837e-04, 4.8060e-04, 4.8236e-04, ..., 1.0000e+00, 1.0000e+00,
5655
            1.0000e+00], grad_fn=<Unique2Backward0>)
5656 100% | 12/12 [01:15<00:00, 5.79s/it]print_dice: 0.5797201991081238, print_iou: 0
     .40817323327064514
                              time: 6.2766 data: 0.4057
5657
      [11/12] eta: 0:00:06
          | 12/12 [01:15<00:00, 6.31s/it]
5659 Total time: 0:01:15 (6.3132 s / it)
5660 ============
5661 Averaged stats:
5662 Epoch 24/499: 0%
                                 | 0/160 [00:00<?, ?it/s]epoch: 24 learning rate:
5663 masks_dr unique: tensor([-7.7269, -7.7187, -7.7112, ..., 13.1924, 13.1928, 13.1967],
5664
           grad_fn=<Unique2Backward0>)
5665 masks dr unique: tensor([-7.7269, -7.7187, -7.7112, ..., 13.1924, 13.1928, 13.1967],
           grad_fn=<Unique2Backward0>)
5667 Epoch 24/499: 1%
                                 | 1/160 [00:13<37:01, 13.97s/it]print_dice: 0.5933400988578796
        print_iou: 0.42180776596069336
5668 [ 0/160] eta: 0:37:15
                                time: 13.9716 data: 4.2949
5669 masks_dr unique: tensor([-7.7272, -7.7089, -7.7024, ..., 11.6952, 11.6985, 11.7030],
5670
           grad fn=<Unique2Backward0>)
5671 masks_dr unique: tensor([-7.7272, -7.7089, -7.7024, ..., 11.6952, 11.6985, 11.7030],
5672
           grad_fn=<Unique2Backward0>)
5673 Epoch 24/499:
                    1%||
                                 2/160 [00:23<29:48, 11.32s/it]print_dice: 0.512209951877594
        print_iou: 0.34427568316459656
5674 masks_dr unique: tensor([-7.8641, -7.8522, -7.8519, ..., 12.9265, 12.9267, 12.9326],
           grad_fn=<Unique2Backward0>)
5675
5676 masks_dr unique: tensor([-7.8641, -7.8522, -7.8519, ..., 12.9265, 12.9267, 12.9326],
           grad fn=<Unique2Backward0>)
5677
5678 Epoch 24/499:
                    2%||
                                 3/160 [00:32<27:22, 10.46s/it]print_dice: 0.5369464755058289
        print iou: 0.36700400710105896
5679 masks_dr unique: tensor([-7.5218, -7.5200, -7.5161, ..., 13.0442, 13.0445, 13.0446],
           grad_fn=<Unique2Backward0>)
5681 masks_dr unique: tensor([-7.5218, -7.5200, -7.5161, ..., 13.0442, 13.0445, 13.0446],
           grad_fn=<Unique2Backward0>)
5683 print_dice: 0.5541006922721863,
                                      print_iou: 0.38322219252586365
                    2%|
                                 4/160 [00:42<26:21, 10.14s/it]masks_dr unique: tensor([-7.
5684 Epoch 24/499:
    5036, -7.5002, -7.4865, ..., 12.9933, 12.9937, 12.9938],
           grad fn=<Unique2Backward0>)
5685
5686 masks_dr unique: tensor([-7.5036, -7.5002, -7.4865, ..., 12.9933, 12.9937, 12.9938],
           grad_fn=<Unique2Backward0>)
5687
5688 Epoch 24/499:
                    3%|
                                 5/160 [00:51<25:22, 9.82s/it]print_dice: 0.5548853278160095
        print_iou: 0.38397321105003357
5689 masks_dr unique: tensor([-7.6915, -7.6833, -7.6625, ..., 11.6103, 11.6106, 11.6139],
           grad fn=<Unique2Backward0>)
5690
5691 masks dr unique: tensor([-7.6915, -7.6833, -7.6625, ..., 11.6103, 11.6106, 11.6139],
5692
           grad fn=<Unique2Backward0>)
5693 print dice: 0.4169656038284302,
                                      print_iou: 0.26339641213417053
                                 | 6/160 [01:01<24:50, 9.68s/it]masks_dr unique: tensor([-7.
5694 Epoch 24/499:
                    4%|
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5694 6860, -7.6762, -7.6665, ..., 12.9631, 12.9644, 12.9649],
           grad_fn=<Unique2Backward0>)
5696 masks_dr unique: tensor([-7.6860, -7.6762, -7.6665, ..., 12.9631, 12.9644, 12.9649],
           grad fn=<Unique2Backward0>)
5697
                   4%
                                 7/160 [01:10<24:34, 9.64s/it]print dice: 0.49793338775634766
5698 Epoch 24/499:
        print_iou: 0.3314988911151886
5699 masks dr unique: tensor([-7.7189, -7.7104, -7.7019, ..., 12.8338, 12.8356, 12.8363],
           grad_fn=<Unique2Backward0>)
5700
5701 masks_dr unique: tensor([-7.7189, -7.7104, -7.7019, ..., 12.8338, 12.8356, 12.8363],
           grad fn=<Unique2Backward0>)
5702
5703 Epoch 24/499:
                    5%||
                                 8/160 [01:20<24:22, 9.62s/it]print_dice: 0.4617023169994354
        print_iou: 0.3001384735107422
5704 masks_dr unique: tensor([-7.6929, -7.6847, -7.6639, ..., 11.6134, 11.6138, 11.6170],
           grad fn=<Unique2Backward0>)
5706 masks_dr unique: tensor([-7.6929, -7.6847, -7.6639, ..., 11.6134, 11.6138, 11.6170],
           grad_fn=<Unique2Backward0>)
5707
5708 Epoch 24/499:
                    6%|
                                 9/160 [01:29<24:05, 9.57s/it]print_dice: 0.48049312829971313
        print_iou: 0.31621649861335754
5709 masks_dr unique: tensor([-7.8530, -7.8442, -7.8355, ..., 12.8326, 12.8332, 12.8347],
           grad_fn=<Unique2Backward0>)
5711 masks_dr unique: tensor([-7.8530, -7.8442, -7.8355, ..., 12.8326, 12.8332, 12.8347],
           grad_fn=<Unique2Backward0>)
5712
                                 | 10/160 [01:39<23:49, 9.53s/it]print_dice: 0.5954799652099609
5713 Epoch 24/499:
                    6%
        print iou: 0.42397400736808777
5714 masks_dr unique: tensor([-7.5394, -7.5341, -7.5287, ..., 12.8091, 12.8092, 12.8108],
           grad fn=<Unique2Backward0>)
5715
5716 masks dr unique: tensor([-7.5394, -7.5341, -7.5287, ..., 12.8091, 12.8092, 12.8108],
           grad_fn=<Unique2Backward0>)
5717
                                 | 11/160 [01:48<23:45, 9.57s/it]print dice: 0.
5718 Epoch 24/499:
                    7%
    49876654148101807, print_iou: 0.3322378098964691
5719 masks dr unique: tensor([-7.6954, -7.6873, -7.6665, ..., 11.6134, 11.6136, 11.6169],
           grad_fn=<Unique2Backward0>)
5720
5721 masks_dr unique: tensor([-7.6954, -7.6873, -7.6665, ..., 11.6134, 11.6136, 11.6169],
5722
           grad_fn=<Unique2Backward0>)
5723 print dice: 0.5272581577301025, print iou: 0.35801127552986145
                               | 12/160 [01:58<23:42, 9.61s/it]masks_dr unique: tensor([-7.
5724 Epoch 24/499:
                    8%|
    6984, -7.6903, -7.6695, ..., 11.6143, 11.6146, 11.6179],
5725
           grad_fn=<Unique2Backward0>)
5726 masks_dr unique: tensor([-7.6984, -7.6903, -7.6695, ..., 11.6143, 11.6146, 11.6179],
           grad fn=<Unique2Backward0>)
5727
5728 print_dice: 0.5588928461074829, print_iou: 0.38782185316085815
5729 Epoch 24/499: 8%
                           | 13/160 [02:08<23:26, 9.57s/it]masks_dr unique: tensor([-7.
    7012, -7.6930, -7.6722, ..., 11.6150, 11.6153, 11.6186],
           grad fn=<Unique2Backward0>)
5731 masks_dr unique: tensor([-7.7012, -7.6930, -7.6722, ..., 11.6150, 11.6153, 11.6186],
5732
           grad_fn=<Unique2Backward0>)
5733 Epoch 24/499: 9%|■
                                 | 14/160 [02:17<23:16, 9.56s/it]print_dice: 0.6074997186660767
        print_iou: 0.43626540899276733
5734 masks_dr unique: tensor([-7.5673, -7.5507, -7.5496, ..., 11.9176, 11.9195, 11.9231],
           grad fn=<Unique2Backward0>)
5736 masks dr unique: tensor([-7.5673, -7.5507, -7.5496, ..., 11.9176, 11.9195, 11.9231],
           grad fn=<Unique2Backward0>)
5737
                                 | 15/160 [02:27<23:06, 9.56s/it]print_dice: 0.4796995222568512
5738 Epoch 24/499:
                    9%
        print_iou: 0.31552940607070923
5739 masks_dr unique: tensor([-7.6985, -7.6905, -7.6699, ..., 11.6124, 11.6132, 11.6162],
           grad_fn=<Unique2Backward0>)
5740
5741 masks_dr unique: tensor([-7.6985, -7.6905, -7.6699, ..., 11.6124, 11.6132, 11.6162],
5742
           grad_fn=<Unique2Backward0>)
5743 Epoch 24/499: 10%
                                  | 16/160 [02:36<23:00, 9.59s/it]print_dice: 0.5652081370353699
        print_iou: 0.3939303755760193
5744 masks_dr unique: tensor([-7.3216, -7.3105, -7.2981, ..., 11.7393, 11.7405, 11.7456],
           grad fn=<Unique2Backward0>)
5746 masks_dr unique: tensor([-7.3216, -7.3105, -7.2981, ..., 11.7393, 11.7405, 11.7456],
           grad fn=<Unique2Backward0>)
5747
5748 print_dice: 0.498193621635437,
                                     print_iou: 0.33172959089279175
5749 Epoch 24/499: 11%
                                 | 17/160 [02:46<22:48, 9.57s/it]masks_dr unique: tensor([-7.
     3991, -7.3976, -7.3852, ..., 13.0643, 13.0643, 13.0654],
           grad_fn=<Unique2Backward0>)
5750
5751 masks dr unique: tensor([-7.3991, -7.3976, -7.3852, ..., 13.0643, 13.0643, 13.0654],
```

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grad fn=<Unique2Backward0>)
5752
5753 print dice: 0.5278072953224182, print_iou: 0.35851776599884033
5754 Epoch 24/499: 11%| | 18/160 [02:55<22:28, 9.50s/it]masks_dr unique: tensor([-7.
    6008, -7.5801, -7.5586, ..., 11.5892, 11.5949, 11.5993],
           grad fn=<Unique2Backward0>)
5756 masks_dr unique: tensor([-7.6008, -7.5801, -7.5586, ..., 11.5892, 11.5949, 11.5993],
5757
           grad_fn=<Unique2Backward0>)
5758 print_dice: 0.49851271510124207, print_iou: 0.3320126235485077
5759 Epoch 24/499: 12%
    2606, -7.2554, -7.2414, ..., 11.4234, 11.4272, 11.4330],
5760
           grad fn=<Unique2Backward0>)
5761 masks_dr unique: tensor([-7.2606, -7.2554, -7.2414, ..., 11.4234, 11.4272, 11.4330],
5762
           grad_fn=<Unique2Backward0>)
5763 print dice: 0.5401458740234375, print iou: 0.36999988555908203
6733, -7.6568, -7.6395, ..., 12.0377, 12.0444, 12.0447],
           grad_fn=<Unique2Backward0>)
5766 masks_dr unique: tensor([-7.6733, -7.6568, -7.6395, ..., 12.0377, 12.0444, 12.0447],
5767
           grad_fn=<Unique2Backward0>)
5768 Epoch 24/499: 13%
                               21/160 [03:24<22:13, 9.59s/it]print_dice: 0.424980103969574
        print_iou: 0.2698252201080322
5769 masks_dr unique: tensor([-7.7008, -7.7004, -7.6880, ..., 11.5712, 11.5754, 11.5816],
5770
           grad fn=<Unique2Backward0>)
5771 masks_dr unique: tensor([-7.7008, -7.7004, -7.6880, ..., 11.5712, 11.5754, 11.5816],
           grad_fn=<Unique2Backward0>)
5773 print_dice: 0.44189491868019104,
                                     print iou: 0.283610463142395
5774 Epoch 24/499: 14%
                            | 22/160 [03:34<21:56, 9.54s/it]masks dr unique: tensor([-7.
    7002, -7.6925, -7.6722, ..., 11.6153, 11.6159, 11.6189],
5775
           grad_fn=<Unique2Backward0>)
5776 masks_dr unique: tensor([-7.7002, -7.6925, -7.6722, ..., 11.6153, 11.6159, 11.6189],
           grad fn=<Unique2Backward0>)
                                23/160 [03:43<21:43, 9.51s/it]print_dice: 0.5556032061576843
5778 Epoch 24/499: 14%
        print_iou: 0.38466107845306396
5779 masks_dr unique: tensor([-7.8558, -7.8480, -7.8401, ..., 12.9094, 12.9110, 12.9113],
           grad fn=<Unique2Backward0>)
5781 masks_dr unique: tensor([-7.8558, -7.8480, -7.8401, ..., 12.9094, 12.9110, 12.9113],
           grad fn=<Unique2Backward0>)
5782
5783 Epoch 24/499: 15%
                                24/160 [03:53<21:36, 9.53s/it]print_dice: 0.5743557810783386
        print_iou: 0.40287452936172485
5784 masks_dr unique: tensor([-7.9042, -7.8954, -7.8866, ..., 12.8692, 12.8711, 12.8717],
5785
           grad fn=<Unique2Backward0>)
5786 masks_dr unique: tensor([-7.9042, -7.8954, -7.8866, ..., 12.8692, 12.8711, 12.8717],
5787
           grad_fn=<Unique2Backward0>)
5788 print_dice: 0.5246161818504333, print_iou: 0.3555794358253479
5789 Epoch 24/499: 16% | 25/160 [04:02<21:33, 9.58s/it]masks_dr unique: tensor([-7.
    2865, -7.2734, -7.2665, ..., 11.8247, 11.8268, 11.8302],
5790
           grad_fn=<Unique2Backward0>)
5791 masks_dr unique: tensor([-7.2865, -7.2734, -7.2665, ..., 11.8247, 11.8268, 11.8302],
           grad fn=<Unique2Backward0>)
5792
5793 print_dice: 0.4923042953014374, print_iou: 0.3265276253223419
5794 Epoch 24/499: 16% 26/160 [04:12<21:22, 9.57s/it] masks_dr unique: tensor([-7.
    5669, -7.5665, -7.5552, ..., 13.0751, 13.0757, 13.0767],
5795
           grad fn=<Unique2Backward0>)
5796 masks_dr unique: tensor([-7.5669, -7.5665, -7.5552, ..., 13.0751, 13.0757, 13.0767],
           grad_fn=<Unique2Backward0>)
5798 Epoch 24/499: 17%|■
                                27/160 [04:21<21:09, 9.55s/it]print_dice: 0.5943472981452942
        print_iou: 0.4228265881538391
5799 masks_dr unique: tensor([-7.5959, -7.5929, -7.5782, ..., 13.0584, 13.0601, 13.0608],
           grad_fn=<Unique2Backward0>)
5801 masks_dr unique: tensor([-7.5959, -7.5929, -7.5782, ..., 13.0584, 13.0601, 13.0608],
           grad_fn=<Unique2Backward0>)
5802
5803 print_dice: 0.5039288401603699, print_iou: 0.3368348181247711
5804 Epoch 24/499: 18%
                                28/160 [04:31<21:02, 9.56s/it]masks_dr unique: tensor([-7.
    7004, -7.6926, -7.6723, ..., 11.6185, 11.6191, 11.6222],
5805
           grad_fn=<Unique2Backward0>)
5806 masks dr unique: tensor([-7.7004, -7.6926, -7.6723, ..., 11.6185, 11.6191, 11.6222],
5807
           grad fn=<Unique2Backward0>)
5808 Epoch 24/499: 18%
                                29/160 [04:41<21:00, 9.62s/it]print_dice: 0.60796719789505
        print iou: 0.4367477297782898
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5809 masks_dr unique: tensor([-7.8711, -7.8707, -7.8700, ..., 12.9689, 12.9707, 12.9716],
           grad_fn=<Unique2Backward0>)
5811 masks dr unique: tensor([-7.8711, -7.8707, -7.8700, ..., 12.9689, 12.9707, 12.9716],
5812
           grad fn=<Unique2Backward0>)
5813 print dice: 0.5618873834609985, print iou: 0.3907116651535034
5814 Epoch 24/499: 19%| 30/160 [04:50<20:49, 9.61s/it]masks_dr unique: tensor([-7.
    9909, -7.9760, -7.9746, ..., 12.2329, 12.2371, 12.2427],
5815
           grad_fn=<Unique2Backward0>)
5816 masks_dr unique: tensor([-7.9909, -7.9760, -7.9746, ..., 12.2329, 12.2371, 12.2427],
           grad fn=<Unique2Backward0>)
5817
                                 | 31/160 [05:00<20:36, 9.59s/it]print dice: 0.5904306173324585
5818 Epoch 24/499: 19%
        print iou: 0.41887301206588745
5819 masks_dr unique: tensor([-7.6996, -7.6919, -7.6716, ..., 11.6159, 11.6161, 11.6194],
           grad fn=<Unique2Backward0>)
5820
5821 masks dr unique: tensor([-7.6996, -7.6919, -7.6716, ..., 11.6159, 11.6161, 11.6194],
5822
           grad_fn=<Unique2Backward0>)
5823 print_dice: 0.49436917901039124,
                                       print_iou: 0.3283468782901764
5824 Epoch 24/499: 20% 32/160 [05:09<20:29, 9.61s/it] masks_dr unique: tensor([-7.
    5302, -7.5194, -7.5151, ..., 12.1666, 12.1712, 12.1747],
5825
           grad_fn=<Unique2Backward0>)
5826 masks_dr unique: tensor([-7.5302, -7.5194, -7.5151, ..., 12.1666, 12.1712, 12.1747],
           grad_fn=<Unique2Backward0>)
                                 | 33/160 [05:19<20:19, 9.60s/it]print_dice: 0.5111225247383118
5828 Epoch 24/499: 21%
        print iou: 0.34329384565353394
5829 masks_dr unique: tensor([-7.6996, -7.6919, -7.6716, ..., 11.6156, 11.6160, 11.6192],
           grad fn=<Unique2Backward0>)
5830
5831 masks_dr unique: tensor([-7.6996, -7.6919, -7.6716, ..., 11.6156, 11.6160, 11.6192],
5832
           grad_fn=<Unique2Backward0>)
5833 Epoch 24/499: 21%
                                 34/160 [05:29<20:08, 9.59s/it]print_dice: 0.
    47276657819747925, print_iou: 0.3095575273036957
5834 masks_dr unique: tensor([-7.7542, -7.7412, -7.7348, ..., 11.9018, 11.9061, 11.9103],
           grad fn=<Unique2Backward0>)
5835
5836 masks_dr unique: tensor([-7.7542, -7.7412, -7.7348, ..., 11.9018, 11.9061, 11.9103],
           grad_fn=<Unique2Backward0>)
5837
5838 Epoch 24/499: 22%
                                 | 35/160 [05:38<19:55, 9.57s/it]print_dice: 0.5747264623641968
        print_iou: 0.4032394289970398
5839 masks_dr unique: tensor([-7.6242, -7.6084, -7.6039, ..., 12.2948, 12.2995, 12.3049],
           grad_fn=<Unique2Backward0>)
5841 masks_dr unique: tensor([-7.6242, -7.6084, -7.6039, ..., 12.2948, 12.2995, 12.3049],
           grad fn=<Unique2Backward0>)
5842
5843 print dice: 0.5144319534301758, print_iou: 0.3462863862514496
5844 Epoch 24/499: 22% 36/160 [05:48<19:49, 9.60s/it]masks_dr unique: tensor([-7.
    6312, -7.6221, -7.6151, ..., 11.7909, 11.7933, 11.7936],
5845
           grad fn=<Unique2Backward0>)
5846 masks_dr unique: tensor([-7.6312, -7.6221, -7.6151, ..., 11.7909, 11.7933, 11.7936],
5847
           grad_fn=<Unique2Backward0>)
5848 Epoch 24/499: 23%
                                 37/160 [05:57<19:35, 9.55s/it]print_dice: 0.5438134074211121
        print_iou: 0.373450368642807
5849 masks_dr unique: tensor([-7.3612, -7.3540, -7.3447, ..., 12.7650, 12.7652, 12.7660],
5850
           grad fn=<Unique2Backward0>)
5851 masks dr unique: tensor([-7.3612, -7.3540, -7.3447, ..., 12.7650, 12.7652, 12.7660],
           grad fn=<Unique2Backward0>)
5852
                                 | 38/160 [06:07<19:27, 9.57s/it]print_dice: 0.5106698274612427
5853 Epoch 24/499: 24%
        print_iou: 0.3428855538368225
5854 masks_dr unique: tensor([-7.7011, -7.6932, -7.6730, ..., 11.6191, 11.6198, 11.6228],
           grad_fn=<Unique2Backward0>)
5855
5856 masks_dr unique: tensor([-7.7011, -7.6932, -7.6730, ..., 11.6191, 11.6198, 11.6228],
5857
           grad_fn=<Unique2Backward0>)
5858 Epoch 24/499: 24%
                                 | 39/160 [06:17<19:24, 9.62s/it]print_dice: 0.5615642666816711
        print_iou: 0.3903992474079132
5859 masks_dr unique: tensor([-7.6381, -7.6362, -7.6253, ..., 12.2075, 12.2099, 12.2127],
           grad fn=<Unique2Backward0>)
5861 masks_dr unique: tensor([-7.6381, -7.6362, -7.6253, ..., 12.2075, 12.2099, 12.2127],
           grad fn=<Unique2Backward0>)
5862
5863 Epoch 24/499: 25%
                                 40/160 [06:26<19:06, 9.56s/it]print_dice: 0.549656867980957
        print_iou: 0.3789840042591095
5864 masks_dr unique: tensor([-7.2895, -7.2881, -7.2806, ..., 11.6734, 11.6773, 11.6790],
           grad_fn=<Unique2Backward0>)
5866 masks dr unique: tensor([-7.2895, -7.2881, -7.2806, ..., 11.6734, 11.6773, 11.6790],
```

```
grad fn=<Unique2Backward0>)
5868 print dice: 0.5302279591560364, print_iou: 0.36075523495674133
5869 Epoch 24/499: 26% 41/160 [06:35<18:53, 9.53s/it] masks_dr unique: tensor([-7.
    4956, -7.4721, -7.4713, ..., 11.7981, 11.8033, 11.8071],
           grad fn=<Unique2Backward0>)
5871 masks_dr unique: tensor([-7.4956, -7.4721, -7.4713, ..., 11.7981, 11.8033, 11.8071],
           grad fn=<Unique2Backward0>)
5872
5873 print dice: 0.5452848672866821, print_iou: 0.3748396039009094
5874 Epoch 24/499: 26%
    4318, -7.4290, -7.4110, ..., 12.7194, 12.7198, 12.7207],
5875
           grad fn=<Unique2Backward0>)
5876 masks_dr unique: tensor([-7.4318, -7.4290, -7.4110, ..., 12.7194, 12.7198, 12.7207],
           grad_fn=<Unique2Backward0>)
5877
5878 print dice: 0.47405943274497986,
                                     print iou: 0.3106670379638672
5879 Epoch 24/499: 27% | 43/160 [06:55<18:41, 9.58s/it]masks_dr unique: tensor([-7.
    4765, -7.4703, -7.4668, ..., 12.9267, 12.9278, 12.9279],
5880
           grad_fn=<Unique2Backward0>)
5881 masks_dr unique: tensor([-7.4765, -7.4703, -7.4668, ..., 12.9267, 12.9278, 12.9279],
5882
           grad_fn=<Unique2Backward0>)
5883 Epoch 24/499: 28%
                               44/160 [07:04<18:29, 9.56s/it]print_dice: 0.4161064624786377
        print_iou: 0.26271113753318787
5884 masks_dr unique: tensor([-7.7022, -7.6945, -7.6742, ..., 11.6163, 11.6164, 11.6198],
           grad fn=<Unique2Backward0>)
5886 masks_dr unique: tensor([-7.7022, -7.6945, -7.6742, ..., 11.6163, 11.6164, 11.6198],
           grad_fn=<Unique2Backward0>)
5888 print_dice: 0.47357290983200073, print_iou: 0.3102492690086365
5889 Epoch 24/499: 28%
    7048, -7.6971, -7.6768, ..., 11.6172, 11.6173, 11.6207],
5890
           grad_fn=<Unique2Backward0>)
5891 masks_dr unique: tensor([-7.7048, -7.6971, -7.6768, ..., 11.6172, 11.6173, 11.6207],
           grad_fn=<Unique2Backward0>)
5893 print_dice: 0.5373655557632446, print_iou: 0.36739566922187805
5894 Epoch 24/499: 29% 46/160 [07:23<18:10, 9.56s/it] masks_dr unique: tensor([-7.
    1199, -7.1006, -7.0833, ..., 11.4603, 11.4648, 11.4682],
5895
           grad_fn=<Unique2Backward0>)
5896 masks_dr unique: tensor([-7.1199, -7.1006, -7.0833, ..., 11.4603, 11.4648, 11.4682],
5897
           grad_fn=<Unique2Backward0>)
5898 print_dice: 0.4651872217655182, print_iou: 0.30309054255485535
5899 Epoch 24/499: 29% 47/160 [07:33<17:59, 9.55s/it]masks_dr unique: tensor([-7.
    9155, -7.9149, -7.9082, ..., 13.2020, 13.2023, 13.2054],
5900
           grad fn=<Unique2Backward0>)
5901 masks_dr unique: tensor([-7.9155, -7.9149, -7.9082, ..., 13.2020, 13.2023, 13.2054],
5902
           grad_fn=<Unique2Backward0>)
5903 Epoch 24/499: 30%
                                48/160 [07:42<17:49, 9.55s/it]print_dice: 0.5378818511962891
        print_iou: 0.3678785264492035
5904 masks_dr unique: tensor([-7.5835, -7.5717, -7.5616, ..., 11.7581, 11.7633, 11.7692],
           grad_fn=<Unique2Backward0>)
5905
5906 masks_dr unique: tensor([-7.5835, -7.5717, -7.5616, ..., 11.7581, 11.7633, 11.7692],
           grad fn=<Unique2Backward0>)
5907
5908 Epoch 24/499: 31%
                                49/160 [07:52<17:40, 9.55s/it]print_dice: 0.5433930158615112
        print iou: 0.3730539381504059
5909 masks dr unique: tensor([-7.7062, -7.6985, -7.6783, ..., 11.6187, 11.6188, 11.6222],
           grad_fn=<Unique2Backward0>)
5910
5911 masks_dr unique: tensor([-7.7062, -7.6985, -7.6783, ..., 11.6187, 11.6188, 11.6222],
           grad_fn=<Unique2Backward0>)
5913 print_dice: 0.5235781669616699,
                                    print_iou: 0.3546264171600342
5914 Epoch 24/499: 31%
                                | 50/160 [08:01<17:28, 9.53s/it]masks dr unique: tensor([-7.
    7679, -7.7590, -7.7469, ..., 11.7576, 11.7599, 11.7633],
           grad fn=<Unique2Backward0>)
5915
5916 masks_dr unique: tensor([-7.7679, -7.7590, -7.7469, ..., 11.7576, 11.7599, 11.7633],
5917
           grad_fn=<Unique2Backward0>)
5918 Epoch 24/499: 32%
                                | 51/160 [08:11<17:18, 9.52s/it]print_dice: 0.5838440656661987
        print_iou: 0.4122738838195801
5919 masks_dr unique: tensor([-7.7077, -7.7001, -7.6799, ..., 11.6205, 11.6209, 11.6241],
           grad_fn=<Unique2Backward0>)
5921 masks_dr unique: tensor([-7.7077, -7.7001, -7.6799, ..., 11.6205, 11.6209, 11.6241],
5922
           grad fn=<Unique2Backward0>)
5923 print dice: 0.5161524415016174, print iou: 0.3478473424911499
5924 Epoch 24/499: 32%
                                | 52/160 [08:20<17:08, 9.52s/it]masks_dr unique: tensor([-7.
```

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5924 6526, -7.6376, -7.6371, ..., 12.9087, 12.9092, 12.9102],
           grad_fn=<Unique2Backward0>)
5926 masks_dr unique: tensor([-7.6526, -7.6376, -7.6371, ..., 12.9087, 12.9092, 12.9102],
5927
           grad fn=<Unique2Backward0>)
5928 Epoch 24/499: 33%
                                 53/160 [08:30<16:54, 9.48s/it]print_dice: 0.4968910813331604
        print_iou: 0.330575555562973
5929 masks_dr unique: tensor([-7.8021, -7.7836, -7.7826, ..., 12.2410, 12.2420, 12.2463],
           grad_fn=<Unique2Backward0>)
5931 masks_dr unique: tensor([-7.8021, -7.7836, -7.7826, ..., 12.2410, 12.2420, 12.2463],
5932
           grad fn=<Unique2Backward0>)
5933 print dice: 0.5422142148017883, print iou: 0.3719436824321747
5934 Epoch 24/499: 34% 54/160 [08:39<16:43, 9.47s/it]masks_dr unique: tensor([-7.
    7963, -7.7948, -7.7814, ..., 13.0587, 13.0605, 13.0609],
5935
           grad fn=<Unique2Backward0>)
5936 masks_dr unique: tensor([-7.7963, -7.7948, -7.7814, ..., 13.0587, 13.0605, 13.0609],
           grad_fn=<Unique2Backward0>)
5937
5938 Epoch 24/499: 34%
                             | 55/160 [08:49<16:36, 9.49s/it]print_dice: 0.5669810175895691
        print_iou: 0.39565494656562805
5939 masks_dr unique: tensor([-7.5785, -7.5702, -7.5668, ..., 11.8054, 11.8098, 11.8135],
           grad_fn=<Unique2Backward0>)
5941 masks_dr unique: tensor([-7.5785, -7.5702, -7.5668, ..., 11.8054, 11.8098, 11.8135],
           grad_fn=<Unique2Backward0>)
5943 print dice: 0.547054648399353, print_iou: 0.3765142261981964
5944 Epoch 24/499: 35% | | 56/160 [08:58<16:31, 9.53s/it]masks_dr unique: tensor([-7. 8606, -7.8590, -7.8467, ..., 13.1624, 13.1636, 13.1639],
5945
           grad fn=<Unique2Backward0>)
5946 masks dr unique: tensor([-7.8606, -7.8590, -7.8467, ..., 13.1624, 13.1636, 13.1639],
           grad fn=<Unique2Backward0>)
                                 57/160 [09:08<16:19, 9.51s/it]print_dice: 0.5084078311920166
5948 Epoch 24/499: 36%
        print iou: 0.3408490717411041
5949 masks dr unique: tensor([-7.9312, -7.9298, -7.9159, ..., 13.0138, 13.0163, 13.0165],
5950
           grad_fn=<Unique2Backward0>)
5951 masks_dr unique: tensor([-7.9312, -7.9298, -7.9159, ..., 13.0138, 13.0163, 13.0165],
5952
           grad fn=<Unique2Backward0>)
5953 Epoch 24/499: 36%
                                | 58/160 [09:17<16:09, 9.50s/it]print_dice: 0.
    45951351523399353, print_iou: 0.2982911467552185
5954 masks_dr unique: tensor([-7.9424, -7.9371, -7.9320, ..., 12.8138, 12.8152, 12.8201],
5955
           grad_fn=<Unique2Backward0>)
5956 masks_dr unique: tensor([-7.9424, -7.9371, -7.9320, ..., 12.8138, 12.8152, 12.8201],
           grad fn=<Unique2Backward0>)
5957
5958 print_dice: 0.5820654034614563, print_iou: 0.41050228476524353
5959 Epoch 24/499: 37% 59/160 [09:27<15:54, 9.45s/it]masks_dr unique: tensor([-7.
    6449, -7.6358, -7.6276, ..., 11.8104, 11.8152, 11.8200],
           grad fn=<Unique2Backward0>)
5961 masks_dr unique: tensor([-7.6449, -7.6358, -7.6276, ..., 11.8104, 11.8152, 11.8200],
           grad_fn=<Unique2Backward0>)
5963 print_dice: 0.5955073833465576, print_iou: 0.4240017533302307
5964 Epoch 24/499: 38%
    7613, -7.7543, -7.7526, ..., 12.9778, 12.9783, 12.9796],
5965
           grad_fn=<Unique2Backward0>)
5966 masks_dr unique: tensor([-7.7613, -7.7543, -7.7526, ..., 12.9778, 12.9783, 12.9796],
           grad fn=<Unique2Backward0>)
5967
                                 | 61/160 [09:46<15:41, 9.51s/it]print_dice: 0.4695654511451721
5968 Epoch 24/499: 38%
        print_iou: 0.3068183660507202
5969 masks_dr unique: tensor([-7.8850, -7.8819, -7.8721, ..., 12.5768, 12.5814, 12.5860],
           grad_fn=<Unique2Backward0>)
5970
5971 masks_dr unique: tensor([-7.8850, -7.8819, -7.8721, ..., 12.5768, 12.5814, 12.5860],
           grad fn=<Unique2Backward0>)
5972
5973 Epoch 24/499: 39%
                                 62/160 [09:55<15:29, 9.49s/it]print_dice: 0.5368046164512634
        print_iou: 0.3668714463710785
5974 masks_dr unique: tensor([-7.3483, -7.3421, -7.3296, ..., 11.6363, 11.6371, 11.6421],
           grad fn=<Unique2Backward0>)
5975
5976 masks dr unique: tensor([-7.3483, -7.3421, -7.3296, ..., 11.6363, 11.6371, 11.6421],
           grad fn=<Unique2Backward0>)
5977
5978 Epoch 24/499: 39%
                                 63/160 [10:05<15:25, 9.54s/it]print_dice: 0.5432567596435547
        print_iou: 0.3729255497455597
5979 masks_dr unique: tensor([-7.9906, -7.9790, -7.9710, ..., 13.1075, 13.1095, 13.1097],
           grad_fn=<Unique2Backward0>)
5981 masks dr unique: tensor([-7.9906, -7.9790, -7.9710, ..., 13.1075, 13.1095, 13.1097],
```

```
grad fn=<Unique2Backward0>)
5982
                                | 64/160 [10:14<15:09, 9.47s/it]print_dice: 0.5318613052368164
5983 Epoch 24/499: 40%
        print iou: 0.3622691333293915
5984 masks_dr unique: tensor([-7.5172, -7.5159, -7.5085, ..., 13.0056, 13.0061, 13.0070],
           grad fn=<Unique2Backward0>)
5986 masks dr unique: tensor([-7.5172, -7.5159, -7.5085, ..., 13.0056, 13.0061, 13.0070],
5987
           grad_fn=<Unique2Backward0>)
5988 print_dice: 0.5231762528419495, print_iou: 0.354257732629776
5989 Epoch 24/499: 41%| 65/160 [10:24<14:59, 9.47s/it]masks_dr unique: tensor([-7.
    9342, -7.9325, -7.9296, ..., 12.9045, 12.9056, 12.9108],
5990
           grad fn=<Unique2Backward0>)
5991 masks_dr unique: tensor([-7.9342, -7.9325, -7.9296, ..., 12.9045, 12.9056, 12.9108],
5992
           grad_fn=<Unique2Backward0>)
5993 Epoch 24/499: 41%
                                66/160 [10:33<14:55, 9.53s/it]print dice: 0.5698620080947876
        print_iou: 0.39846646785736084
5994 masks_dr unique: tensor([-7.7102, -7.7027, -7.6826, ..., 11.6191, 11.6201, 11.6229],
           grad fn=<Unique2Backward0>)
5996 masks_dr unique: tensor([-7.7102, -7.7027, -7.6826, ..., 11.6191, 11.6201, 11.6229],
5997
           grad_fn=<Unique2Backward0>)
5998 print_dice: 0.516972541809082, print_iou: 0.34859269857406616
5999 Epoch 24/499: 42%
    8354, -7.8267, -7.8179, ..., 12.7574, 12.7590, 12.7593],
           grad fn=<Unique2Backward0>)
6000
6001 masks dr unique: tensor([-7.8354, -7.8267, -7.8179, ..., 12.7574, 12.7590, 12.7593],
           grad_fn=<Unique2Backward0>)
6003 Epoch 24/499: 42%
                                68/160 [10:52<14:35, 9.52s/it]print_dice: 0.5459021329879761
        print iou: 0.37542322278022766
6004 masks_dr unique: tensor([-8.0292, -8.0279, -8.0134, ..., 13.0042, 13.0067, 13.0068],
           grad_fn=<Unique2Backward0>)
6006 masks dr unique: tensor([-8.0292, -8.0279, -8.0134, ..., 13.0042, 13.0067, 13.0068],
           grad fn=<Unique2Backward0>)
6008 print_dice: 0.5305700302124023, print_iou: 0.36107200384140015
6009 Epoch 24/499: 43%| 69/160 [11:02<14:26, 9.52s/it]masks_dr unique: tensor([-7.
    7127, -7.7051, -7.6849, ..., 11.6201, 11.6202, 11.6235],
6010
           grad_fn=<Unique2Backward0>)
6011 masks_dr unique: tensor([-7.7127, -7.7051, -7.6849, ..., 11.6201, 11.6202, 11.6235],
           grad_fn=<Unique2Backward0>)
6012
6013 print_dice: 0.4517880976200104, print_iou: 0.29181280732154846
6014 Epoch 24/499: 44%| 70/160 [11:11<14:18, 9.54s/it]masks_dr unique: tensor([-7.
    5664, -7.5567, -7.5481, ..., 12.7317, 12.7320, 12.7326],
           grad_fn=<Unique2Backward0>)
6015
6016 masks_dr unique: tensor([-7.5664, -7.5567, -7.5481, ..., 12.7317, 12.7320, 12.7326],
6017
           grad_fn=<Unique2Backward0>)
6018 Epoch 24/499: 44%
                                71/160 [11:21<14:08, 9.53s/it]print_dice: 0.5070671439170837
        print_iou: 0.3396449685096741
6019 masks_dr unique: tensor([-7.6108, -7.5980, -7.5899, ..., 12.2560, 12.2607, 12.2652],
           grad_fn=<Unique2Backward0>)
6020
6021 masks_dr unique: tensor([-7.6108, -7.5980, -7.5899, ..., 12.2560, 12.2607, 12.2652],
           grad fn=<Unique2Backward0>)
6022
6023 Epoch 24/499: 45%
                                72/160 [11:31<14:01, 9.56s/it]print_dice: 0.5451155304908752
        print_iou: 0.3746795952320099
6024 masks dr unique: tensor([-7.7138, -7.7062, -7.6859, ..., 11.6206, 11.6206, 11.6239],
           grad_fn=<Unique2Backward0>)
6026 masks_dr unique: tensor([-7.7138, -7.7062, -7.6859, ..., 11.6206, 11.6206, 11.6239],
           grad_fn=<Unique2Backward0>)
6028 Epoch 24/499: 46%|
                            | 73/160 [11:40<13:50, 9.55s/it]print_dice: 0.
    43752560019493103, print_iou: 0.28002095222473145
6029 masks_dr unique: tensor([-7.9790, -7.9734, -7.9578, ..., 12.1943, 12.1964, 12.1995],
           grad fn=<Unique2Backward0>)
6031 masks_dr unique: tensor([-7.9790, -7.9734, -7.9578, ..., 12.1943, 12.1964, 12.1995],
           grad_fn=<Unique2Backward0>)
6032
6033 print_dice: 0.5408411026000977, print_iou: 0.3706526458263397
6034 Epoch 24/499: 46%
                                74/160 [11:50<13:40, 9.54s/it]masks_dr unique: tensor([-7.
    7170, -7.7093, -7.6890, ..., 11.6229, 11.6230, 11.6263],
           grad_fn=<Unique2Backward0>)
6035
6036 masks_dr unique: tensor([-7.7170, -7.7093, -7.6890, ..., 11.6229, 11.6230, 11.6263],
6037
           grad fn=<Unique2Backward0>)
6038 print_dice: 0.5676586627960205, print_iou: 0.39631521701812744
6039 Epoch 24/499: 47%
                                | 75/160 [11:59<13:24, 9.46s/it]masks_dr unique: tensor([-7.
```

```
6039 8121, -7.8097, -7.7962, ..., 13.0781, 13.0800, 13.0801],
           grad_fn=<Unique2Backward0>)
6041 masks_dr unique: tensor([-7.8121, -7.8097, -7.7962, ..., 13.0781, 13.0800, 13.0801],
6042
           grad fn=<Unique2Backward0>)
6043 print_dice: 0.5387062430381775, print_iou: 0.3686501681804657
6044 Epoch 24/499: 48%
    6152, -7.6066, -7.5921, ..., 13.0515, 13.0526, 13.0565],
6045
           grad_fn=<Unique2Backward0>)
6046 masks_dr unique: tensor([-7.6152, -7.6066, -7.5921, ..., 13.0515, 13.0526, 13.0565],
6047
           grad fn=<Unique2Backward0>)
6048 print_dice: 0.5510002970695496, print_iou: 0.3802625238895416
6049 Epoch 24/499: 48%
    7162, -7.7085, -7.6882, ..., 11.6209, 11.6220, 11.6246],
6050
           grad fn=<Unique2Backward0>)
6051 masks_dr unique: tensor([-7.7162, -7.7085, -7.6882, ..., 11.6209, 11.6220, 11.6246],
           grad_fn=<Unique2Backward0>)
6053 print_dice: 0.564033031463623, print_iou: 0.39278972148895264
6054 Epoch 24/499: 49%| 78/160 [12:28<13:03, 9.56s/it]masks_dr unique: tensor([-7.
    7159, -7.7081, -7.6876, ..., 11.6219, 11.6230, 11.6256],
6055
           grad_fn=<Unique2Backward0>)
6056 masks_dr unique: tensor([-7.7159, -7.7081, -7.6876, ..., 11.6219, 11.6230, 11.6256],
           grad_fn=<Unique2Backward0>)
6058 print dice: 0.5698956251144409, print iou: 0.39849933981895447
6059 Epoch 24/499: 49%| 79/160 [12:37<12:54, 9.56s/it]masks_dr unique: tensor([-7.
    9634, -7.9608, -7.9480, ..., 12.4402, 12.4409, 12.4409],
           grad_fn=<Unique2Backward0>)
6060
6061 masks dr unique: tensor([-7.9634, -7.9608, -7.9480, ..., 12.4402, 12.4409, 12.4409],
6062
           grad fn=<Unique2Backward0>)
                                80/160 [12:47<12:44, 9.56s/it]print_dice: 0.5014349222183228
6063 Epoch 24/499: 50%
        print iou: 0.3346100449562073
6064 masks_dr unique: tensor([-7.7322, -7.7276, -7.7256, ..., 12.7555, 12.7578, 12.7580],
6065
           grad_fn=<Unique2Backward0>)
6066 masks_dr unique: tensor([-7.7322, -7.7276, -7.7256, ..., 12.7555, 12.7578, 12.7580],
6067
           grad fn=<Unique2Backward0>)
6068 Epoch 24/499: 51%
                                81/160 [12:56<12:36, 9.58s/it]print_dice: 0.4727321267127991
        print_iou: 0.3095279633998871
6069 masks_dr unique: tensor([-7.7822, -7.7822, -7.7713, ..., 13.0878, 13.0878, 13.0890],
           grad_fn=<Unique2Backward0>)
6071 masks_dr unique: tensor([-7.7822, -7.7822, -7.7713, ..., 13.0878, 13.0878, 13.0890],
6072
           grad fn=<Unique2Backward0>)
6073 print_dice: 0.5092583894729614, print_iou: 0.34161415696144104
6074 Epoch 24/499: 51% | 82/160 [13:06<12:26, 9.57s/it]masks_dr unique: tensor([-7.
    7147, -7.7068, -7.6860, ..., 11.6246, 11.6247, 11.6279],
           grad fn=<Unique2Backward0>)
6076 masks_dr unique: tensor([-7.7147, -7.7068, -7.6860, ..., 11.6246, 11.6247, 11.6279],
           grad_fn=<Unique2Backward0>)
6078 print_dice: 0.515781819820404, print_iou: 0.34751078486442566
6079 Epoch 24/499: 52% | 83/160 [13:16<12:20, 9.61s/it]masks_dr unique: tensor([-7.
    8985, -7.8949, -7.8789, ..., 13.0815, 13.0825, 13.0831],
6080
           grad_fn=<Unique2Backward0>)
6081 masks_dr unique: tensor([-7.8985, -7.8949, -7.8789, ..., 13.0815, 13.0825, 13.0831],
6082
           grad fn=<Unique2Backward0>)
                                84/160 [13:26<12:13, 9.66s/it]print_dice: 0.5109112858772278
6083 Epoch 24/499: 52%
        print_iou: 0.3431033194065094
6084 masks_dr unique: tensor([-7.7131, -7.7051, -7.6843, ..., 11.6236, 11.6248, 11.6274],
           grad_fn=<Unique2Backward0>)
6086 masks_dr unique: tensor([-7.7131, -7.7051, -7.6843, ..., 11.6236, 11.6248, 11.6274],
6087
           grad_fn=<Unique2Backward0>)
6088 Epoch 24/499: 53%
                                85/160 [13:35<12:04, 9.66s/it]print_dice: 0.58552086353302
        print_iou: 0.41394802927970886
6089 masks_dr unique: tensor([-7.7134, -7.7054, -7.6844, ..., 11.6235, 11.6239, 11.6269],
           grad fn=<Unique2Backward0>)
6091 masks_dr unique: tensor([-7.7134, -7.7054, -7.6844, ..., 11.6235, 11.6239, 11.6269],
           grad_fn=<Unique2Backward0>)
6092
                                86/160 [13:45<11:52, 9.62s/it]print dice: 0.5170180201530457
6093 Epoch 24/499: 54%
        print_iou: 0.3486340343952179
6094 masks_dr unique: tensor([-7.6049, -7.5884, -7.5837, ..., 12.8875, 12.8881, 12.8892],
           grad fn=<Unique2Backward0>)
6096 masks_dr unique: tensor([-7.6049, -7.5884, -7.5837, ..., 12.8875, 12.8881, 12.8892],
```

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grad fn=<Unique2Backward0>)
                                 | 87/160 [13:54<11:36, 9.54s/it]print_dice: 0.529090166091919
6098 Epoch 24/499: 54%
        print iou: 0.3597026765346527
6099 masks_dr unique: tensor([-7.4535, -7.4506, -7.4369, ..., 13.0162, 13.0164, 13.0169],
           grad_fn=<Unique2Backward0>)
6101 masks_dr unique: tensor([-7.4535, -7.4506, -7.4369, ..., 13.0162, 13.0164, 13.0169],
           grad fn=<Unique2Backward0>)
6102
6103 Epoch 24/499: 55%
                                 88/160 [14:04<11:27, 9.54s/it]print_dice: 0.4915253520011902
        print_iou: 0.32584264874458313
6104 masks_dr unique: tensor([-7.5743, -7.5701, -7.5551, ..., 13.0931, 13.0947, 13.0971],
           grad_fn=<Unique2Backward0>)
6105
6106 masks_dr unique: tensor([-7.5743, -7.5701, -7.5551, ..., 13.0931, 13.0947, 13.0971],
           grad_fn=<Unique2Backward0>)
6107
6108 Epoch 24/499: 56%
                                 89/160 [14:13<11:16, 9.53s/it]print dice: 0.574975311756134
        print_iou: 0.4034844934940338
6109 masks_dr unique: tensor([-7.3956, -7.3865, -7.3732, ..., 11.6728, 11.6747, 11.6767],
           grad_fn=<Unique2Backward0>)
6111 masks_dr unique: tensor([-7.3956, -7.3865, -7.3732, ..., 11.6728, 11.6747, 11.6767],
6112
           grad_fn=<Unique2Backward0>)
6113 print_dice: 0.5026522278785706, print_iou: 0.3356950283050537
6114 Epoch 24/499: 56% 90/160 [14:23<11:09, 9.56s/it]masks_dr unique: tensor([-7.
    3312, -7.2923, -7.2889, ..., 11.8893, 11.8908, 11.8952],
           grad fn=<Unique2Backward0>)
6115
6116 masks dr unique: tensor([-7.3312, -7.2923, -7.2889, ..., 11.8893, 11.8908, 11.8952],
           grad_fn=<Unique2Backward0>)
6117
6118 print_dice: 0.4754057228565216, print_iou: 0.31182441115379333
6119 Epoch 24/499: 57%| 91/160 [14:32<10:56, 9.52s/it]masks_dr unique: tensor([-7.
    5831, -7.5829, -7.5733, ..., 13.0210, 13.0211, 13.0219],
           grad fn=<Unique2Backward0>)
6120
6121 masks_dr unique: tensor([-7.5831, -7.5829, -7.5733, ..., 13.0210, 13.0211, 13.0219],
           grad fn=<Unique2Backward0>)
6123 Epoch 24/499: 57% 92/160 [14:42<10:51, 9.58s/it]print_dice: 0.5147777795791626
        print_iou: 0.346599817276001
6124 masks dr unique: tensor([-7.7841, -7.7809, -7.7681, ..., 13.0832, 13.0861, 13.0864],
           grad_fn=<Unique2Backward0>)
6126 masks_dr unique: tensor([-7.7841, -7.7809, -7.7681, ..., 13.0832, 13.0861, 13.0864],
           grad fn=<Unique2Backward0>)
6127
6128 Epoch 24/499: 58%
                                 93/160 [14:51<10:39, 9.54s/it]print_dice: 0.5226232409477234
        print_iou: 0.3537508249282837
6129 masks_dr unique: tensor([-7.6769, -7.6640, -7.6511, ..., 12.2106, 12.2163, 12.2209],
           grad_fn=<Unique2Backward0>)
6130
6131 masks dr unique: tensor([-7.6769, -7.6640, -7.6511, ..., 12.2106, 12.2163, 12.2209],
           grad_fn=<Unique2Backward0>)
6132
6133 print_dice: 0.585577666759491, print_iou: 0.4140048027038574
6134 Epoch 24/499: 59% 94/160 [15:01<10:30, 9.56s/it] masks_dr unique: tensor([-7.
    7131, -7.7048, -7.6835, ..., 11.6300, 11.6306, 11.6335],
6135
           grad_fn=<Unique2Backward0>)
6136 masks_dr unique: tensor([-7.7131, -7.7048, -7.6835, ..., 11.6300, 11.6306, 11.6335],
6137
           grad_fn=<Unique2Backward0>)
6138 Epoch 24/499: 59%| 95/160 [15:11<10:27, 9.65s/it]print_dice: 0.6071277260780334
        print_iou: 0.4358818233013153
6139 masks_dr unique: tensor([-7.5302, -7.5172, -7.5147, ..., 11.3066, 11.3127, 11.3168],
           grad_fn=<Unique2Backward0>)
6141 masks_dr unique: tensor([-7.5302, -7.5172, -7.5147, ..., 11.3066, 11.3127, 11.3168],
           grad_fn=<Unique2Backward0>)
6143 Epoch 24/499: 60%|
                                 96/160 [15:20<10:17, 9.66s/it]print_dice: 0.529900848865509
        print iou: 0.36045247316360474
6144 masks_dr unique: tensor([-7.7089, -7.7006, -7.6793, ..., 11.6308, 11.6315, 11.6344],
           grad fn=<Unique2Backward0>)
6146 masks_dr unique: tensor([-7.7089, -7.7006, -7.6793, ..., 11.6308, 11.6315, 11.6344],
           grad_fn=<Unique2Backward0>)
6147
6148 print_dice: 0.5283141732215881, print_iou: 0.35898569226264954
6149 Epoch 24/499: 61%
                                 97/160 [15:30<10:06, 9.62s/it]masks_dr unique: tensor([-7.
    7084, -7.7000, -7.6787, ..., 11.6304, 11.6305, 11.6337],
6150
           grad_fn=<Unique2Backward0>)
6151 masks_dr unique: tensor([-7.7084, -7.7000, -7.6787, ..., 11.6304, 11.6305, 11.6337],
6152
           grad fn=<Unique2Backward0>)
6153 Epoch 24/499: 61%
                                 98/160 [15:40<09:55, 9.60s/it]print_dice: 0.519399881362915
        print_iou: 0.3508036136627197
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6154 masks dr unique: tensor([-7.5330, -7.5235, -7.5139, ..., 12.4424, 12.4426, 12.4435],
           grad_fn=<Unique2Backward0>)
6156 masks dr unique: tensor([-7.5330, -7.5235, -7.5139, ..., 12.4424, 12.4426, 12.4435],
           grad fn=<Unique2Backward0>)
6157
                                 99/160 [15:49<09:44, 9.59s/it]print_dice: 0.5591718554496765
6158 Epoch 24/499: 62%
        print iou: 0.3880906105041504
6159 masks dr unique: tensor([-7.7059, -7.6976, -7.6763, ..., 11.6269, 11.6281, 11.6306],
           grad_fn=<Unique2Backward0>)
6161 masks_dr unique: tensor([-7.7059, -7.6976, -7.6763, ..., 11.6269, 11.6281, 11.6306],
           grad fn=<Unique2Backward0>)
6162
                                 | 100/160 [15:59<09:37, 9.62s/it]print dice: 0.
6163 Epoch 24/499: 62%
    5406491160392761, print_iou: 0.3704723119735718
6164 masks_dr unique: tensor([-7.8066, -7.8024, -7.7872, ..., 13.1332, 13.1343, 13.1373],
           grad fn=<Unique2Backward0>)
6165
6166 masks_dr unique: tensor([-7.8066, -7.8024, -7.7872, ..., 13.1332, 13.1343, 13.1373],
           grad fn=<Unique2Backward0>)
6167
6168 Epoch 24/499: 63% | 101/160 [16:08<09:26, 9.60s/it]print_dice: 0.
    5070693492889404, print_iou: 0.33964696526527405
      [100/160] eta: 0:09:35 time: 9.5942 data: 0.0004
6170 masks_dr unique: tensor([-7.5321, -7.5228, -7.5173, ..., 12.6979, 12.6985, 12.6992],
           grad_fn=<Unique2Backward0>)
6171
6172 masks_dr unique: tensor([-7.5321, -7.5228, -7.5173, ..., 12.6979, 12.6985, 12.6992],
           grad_fn=<Unique2Backward0>)
6173
6174 Epoch 24/499: 64% | 102/160 [16:18<09:16, 9.59s/it]print_dice: 0.
    46437177062034607, print_iou: 0.30239856243133545
6175 masks dr unique: tensor([-7.7968, -7.7867, -7.7700, ..., 12.1323, 12.1349, 12.1355],
6176
           grad fn=<Unique2Backward0>)
6177 masks_dr unique: tensor([-7.7968, -7.7867, -7.7700, ..., 12.1323, 12.1349, 12.1355],
           grad_fn=<Unique2Backward0>)
6179 print_dice: 0.4637480080127716, print_iou: 0.3018697500228882
6180 Epoch 24/499: 64% | 103/160 [16:28<09:08, 9.62s/it]masks_dr unique: tensor([-7.
    7022, -7.6939, -7.6728, ..., 11.6347, 11.6348, 11.6380],
6181
           grad_fn=<Unique2Backward0>)
6182 masks_dr unique: tensor([-7.7022, -7.6939, -7.6728, ..., 11.6347, 11.6348, 11.6380],
6183
           grad_fn=<Unique2Backward0>)
6184 print_dice: 0.5533201694488525, print_iou: 0.382475882768631
6185 Epoch 24/499: 65%| | 104/160 [16:37<09:00, 9.66s/it]masks_dr unique: tensor([-7.
    4387, -7.4386, -7.4330, ..., 11.9406, 11.9457, 11.9505],
6186
           grad_fn=<Unique2Backward0>)
6187 masks_dr unique: tensor([-7.4387, -7.4386, -7.4330, ..., 11.9406, 11.9457, 11.9505],
           grad_fn=<Unique2Backward0>)
6188
6189 print_dice: 0.47446104884147644, print_iou: 0.3110120892524719
6190 Epoch 24/499: 66%| | 105/160 [16:47<08:45, 9.56s/it]masks_dr unique: tensor([-7.
    7038, -7.6956, -7.6744, ..., 11.6330, 11.6339, 11.6366],
6191
           grad_fn=<Unique2Backward0>)
6192 masks_dr unique: tensor([-7.7038, -7.6956, -7.6744, ..., 11.6330, 11.6339, 11.6366],
           grad_fn=<Unique2Backward0>)
6194 print_dice: 0.615763783454895, print_iou: 0.44484007358551025
6195 Epoch 24/499: 66% | 106/160 [16:56<08:34, 9.53s/it]masks_dr unique: tensor([-8.
    0467, -8.0354, -8.0271, ..., 12.9692, 12.9708, 12.9755],
6196
           grad_fn=<Unique2Backward0>)
6197 masks dr unique: tensor([-8.0467, -8.0354, -8.0271, ..., 12.9692, 12.9708, 12.9755],
6198
           grad_fn=<Unique2Backward0>)
6199 Epoch 24/499: 67% | 107/160 [17:06<08:32, 9.66s/it]print_dice: 0.
    4853919744491577, print_iou: 0.32047367095947266
6200 masks_dr unique: tensor([-7.8089, -7.8087, -7.8010, ..., 12.3142, 12.3150, 12.3159],
           grad_fn=<Unique2Backward0>)
6201
6202 masks_dr unique: tensor([-7.8089, -7.8087, -7.8010, ..., 12.3142, 12.3150, 12.3159],
           grad fn=<Unique2Backward0>)
6204 Epoch 24/499: 68%
                            108/160 [17:16<08:23, 9.69s/it]print_dice: 0.</pre>
    5276185274124146, print_iou: 0.35834363102912903
                                                       ..., 11.6366, 11.6366, 11.6398],
6205 masks_dr unique: tensor([-7.6991, -7.6909, -7.6698,
           grad_fn=<Unique2Backward0>)
6206
6207 masks_dr unique: tensor([-7.6991, -7.6909, -7.6698,
                                                       ..., 11.6366, 11.6366, 11.6398],
           grad_fn=<Unique2Backward0>)
6208
6209 Epoch 24/499: 68%
                            | 109/160 [17:26<08:14, 9.69s/it]print dice: 0.
    5220446586608887,
                        print_iou: 0.3532208502292633
6210 masks_dr unique: tensor([-7.6992, -7.6911, -7.6701, ..., 11.6378, 11.6378, 11.6410],
           grad fn=<Unique2Backward0>)
6211
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6212 masks_dr unique: tensor([-7.6992, -7.6911, -7.6701, ..., 11.6378, 11.6378, 11.6410],
           grad_fn=<Unique2Backward0>)
6214 Epoch 24/499: 69% | 110/160 [17:35<08:03, 9.68s/it]print dice: 0.
    5868702530860901, print_iou: 0.415298193693161
6215 masks_dr unique: tensor([-7.7674, -7.7652, -7.7486, ..., 12.8135, 12.8172, 12.8179],
6216
           grad_fn=<Unique2Backward0>)
6217 masks_dr unique: tensor([-7.7674, -7.7652, -7.7486, ..., 12.8135, 12.8172, 12.8179],
6218
           grad_fn=<Unique2Backward0>)
6219 print_dice: 0.49048686027526855, print_iou: 0.3249305188655853
6220 Epoch 24/499: 69% | 111/160 [17:45<07:53, 9.67s/it]masks_dr unique: tensor([-7.
    6989, -7.6907, -7.6696, ..., 11.6367, 11.6368, 11.6400],
           grad fn=<Unique2Backward0>)
6221
6222 masks_dr unique: tensor([-7.6989, -7.6907, -7.6696, ..., 11.6367, 11.6368, 11.6400],
           grad fn=<Unique2Backward0>)
6224 Epoch 24/499: 70%
                                | 112/160 [17:54<07:43, 9.65s/it]print_dice: 0.
    48383310437202454, print_iou: 0.3191159963607788
6225 masks_dr unique: tensor([-7.6999, -7.6917, -7.6707, ..., 11.6398, 11.6398, 11.6430],
           grad_fn=<Unique2Backward0>)
6227 masks_dr unique: tensor([-7.6999, -7.6917, -7.6707, ..., 11.6398, 11.6398, 11.6430],
           grad_fn=<Unique2Backward0>)
6229 Epoch 24/499: 71% | 113/160 [18:04<07:33, 9.65s/it]print_dice: 0.
    5821105241775513, print_iou: 0.4105471670627594
6230 masks dr unique: tensor([-7.7851, -7.7706, -7.7685, ..., 12.9513, 12.9523, 12.9536],
6231
           grad fn=<Unique2Backward0>)
6232 masks_dr unique: tensor([-7.7851, -7.7706, -7.7685, ..., 12.9513, 12.9523, 12.9536],
           grad_fn=<Unique2Backward0>)
6233
6234 print dice: 0.5016605854034424, print iou: 0.3348110318183899
6235 Epoch 24/499: 71%| | 114/160 [18:14<07:28, 9.75s/it]masks_dr unique: tensor([-7.
    9595, -7.9592, -7.9591, ..., 12.8088, 12.8096, 12.8098],
6236
           grad fn=<Unique2Backward0>)
6237 masks_dr unique: tensor([-7.9595, -7.9592, -7.9591, ..., 12.8088, 12.8096, 12.8098],
6238
           grad_fn=<Unique2Backward0>)
6239 print_dice: 0.5004343390464783, print_iou: 0.33371952176094055
6240 Epoch 24/499: 72%| | 115/160 [18:24<07:19, 9.76s/it]masks_dr unique: tensor([-7.
    6993, -7.6912, -7.6702, ..., 11.6413, 11.6415, 11.6447],
6241
           grad_fn=<Unique2Backward0>)
6242 masks_dr unique: tensor([-7.6993, -7.6912, -7.6702, ..., 11.6413, 11.6415, 11.6447],
6243
           grad_fn=<Unique2Backward0>)
6244 Epoch 24/499: 72% | 116/160 [18:33<07:06, 9.70s/it]print_dice: 0.
    5027268528938293, print_iou: 0.3357616364955902
6245 masks_dr unique: tensor([-7.3430, -7.3313, -7.3182, ..., 11.7192, 11.7259, 11.7300],
           grad_fn=<Unique2Backward0>)
6247 masks_dr unique: tensor([-7.3430, -7.3313, -7.3182, ..., 11.7192, 11.7259, 11.7300],
           grad_fn=<Unique2Backward0>)
6249 Epoch 24/499: 73% | 117/160 [18:43<06:56, 9.67s/it]print_dice: 0.
    5739615559577942, print_iou: 0.40248674154281616
6250 masks_dr unique: tensor([-7.7239, -7.7201, -7.7192, ..., 11.9964, 11.9973, 12.0000],
6251
           grad_fn=<Unique2Backward0>)
6252 masks_dr unique: tensor([-7.7239, -7.7201, -7.7192, ..., 11.9964, 11.9973, 12.0000],
           grad fn=<Unique2Backward0>)
6253
6254 Epoch 24/499: 74% | 118/160 [18:53<06:45, 9.67s/it]print_dice: 0.
    5479509830474854, print_iou: 0.3773639500141144
6255 masks dr unique: tensor([-7.7028, -7.6946, -7.6736, ..., 11.6414, 11.6419, 11.6449],
           grad_fn=<Unique2Backward0>)
6256
6257 masks_dr unique: tensor([-7.7028, -7.6946, -7.6736, ..., 11.6414, 11.6419, 11.6449],
           grad_fn=<Unique2Backward0>)
6258
6259 print_dice: 0.6089790463447571, print_iou: 0.43779289722442627
                        | 119/160 [19:02<06:34, 9.63s/it]masks_dr unique: tensor([-7.
6260 Epoch 24/499: 74%
    6133, -7.5957, -7.5931, ..., 12.0991, 12.1024, 12.1058],
           grad_fn=<Unique2Backward0>)
6261
6262 masks_dr unique: tensor([-7.6133, -7.5957, -7.5931, ..., 12.0991, 12.1024, 12.1058],
           grad_fn=<Unique2Backward0>)
6264 print dice: 0.5740957856178284,
                                    print iou: 0.40261876583099365
6265 Epoch 24/499: 75% | 120/160 [19:12<06:24, 9.61s/it]masks dr unique: tensor([-7.
    7032, -7.6950, -7.6740, ..., 11.6411, 11.6411, 11.6444],
           grad_fn=<Unique2Backward0>)
6266
6267 masks_dr unique: tensor([-7.7032, -7.6950, -7.6740, ..., 11.6411, 11.6411, 11.6444],
           grad fn=<Unique2Backward0>)
6268
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6269 5460609197616577, print iou: 0.37557342648506165
6270 masks_dr unique: tensor([-7.7020, -7.6938, -7.6728, ..., 11.6434, 11.6441, 11.6470],
           grad fn=<Unique2Backward0>)
6272 masks_dr unique: tensor([-7.7020, -7.6938, -7.6728, ..., 11.6434, 11.6441, 11.6470],
           grad fn=<Unique2Backward0>)
6274 Epoch 24/499: 76% | 122/160 [19:31<06:07, 9.68s/it]print dice: 0.
    49465876817703247, print iou: 0.3286024034023285
6275 masks dr unique: tensor([-7.7023, -7.6941, -7.6730, ..., 11.6409, 11.6410, 11.6442],
6276
           grad_fn=<Unique2Backward0>)
6277 masks_dr unique: tensor([-7.7023, -7.6941, -7.6730, ..., 11.6409, 11.6410, 11.6442],
           grad_fn=<Unique2Backward0>)
6278
6279 Epoch 24/499: 77% | 123/160 [19:41<05:57, 9.66s/it]print_dice: 0.
    4526541531085968, print_iou: 0.2925358712673187
6280 masks_dr unique: tensor([-7.7075, -7.6992, -7.6780, ..., 11.6456, 11.6457, 11.6489],
6281
           grad_fn=<Unique2Backward0>)
6282 masks_dr unique: tensor([-7.7075, -7.6992, -7.6780, ..., 11.6456, 11.6457, 11.6489],
           grad_fn=<Unique2Backward0>)
6284 Epoch 24/499: 78% | 124/160 [19:51<05:47, 9.65s/it]print_dice: 0.
    6032291650772095,
                     print_iou: 0.43187415599823
6285 masks_dr unique: tensor([-7.5787, -7.5709, -7.5605, ..., 11.5948, 11.5992, 11.5994],
           grad_fn=<Unique2Backward0>)
6286
6287 masks_dr unique: tensor([-7.5787, -7.5709, -7.5605, ..., 11.5948, 11.5992, 11.5994],
           grad fn=<Unique2Backward0>)
6288
6289 print_dice: 0.5193877220153809, print_iou: 0.3507925570011139
6290 Epoch 24/499: 78% | 125/160 [20:00<05:37, 9.63s/it]masks dr unique: tensor([-7.
    6359, -7.6271, -7.6203, ..., 12.0247, 12.0254, 12.0269],
6291
           grad_fn=<Unique2Backward0>)
6292 masks_dr unique: tensor([-7.6359, -7.6271, -7.6203, ..., 12.0247, 12.0254, 12.0269],
           grad_fn=<Unique2Backward0>)
6293
6294 Epoch 24/499: 79%| | 126/160 [20:10<05:29, 9.68s/it]print_dice: 0.550458550453186
        print iou: 0.379746675491333
6295 masks_dr unique: tensor([-7.8841, -7.8794, -7.8722, ..., 12.7156, 12.7164, 12.7166],
           grad_fn=<Unique2Backward0>)
6297 masks_dr unique: tensor([-7.8841, -7.8794, -7.8722, ..., 12.7156, 12.7164, 12.7166],
6298
           grad fn=<Unique2Backward0>)
5066547393798828, print_iou: 0.3392750322818756
6300 masks dr unique: tensor([-7.7043, -7.6959, -7.6747, ..., 11.6446, 11.6447, 11.6479],
           grad_fn=<Unique2Backward0>)
6301
6302 masks_dr unique: tensor([-7.7043, -7.6959, -7.6747, ..., 11.6446, 11.6447, 11.6479],
           grad fn=<Unique2Backward0>)
6303
6304 Epoch 24/499: 80%| | 128/160 [20:29<05:10, 9.71s/it]print_dice: 0.
    5039194822311401, print_iou: 0.3368264436721802
6305 masks_dr unique: tensor([-7.7041, -7.6958, -7.6745, ..., 11.6475, 11.6480, 11.6510],
6306
           grad_fn=<Unique2Backward0>)
6307 masks_dr unique: tensor([-7.7041, -7.6958, -7.6745, ..., 11.6475, 11.6480, 11.6510],
           grad_fn=<Unique2Backward0>)
6309 print_dice: 0.53285151720047,
                                  print_iou: 0.3631885349750519
5299, -7.5282, -7.5155, ..., 13.0418, 13.0419, 13.0432],
6311
           grad_fn=<Unique2Backward0>)
6312 masks dr unique: tensor([-7.5299, -7.5282, -7.5155, ..., 13.0418, 13.0419, 13.0432],
           grad fn=<Unique2Backward0>)
6313
6314 Epoch 24/499: 81% | 130/160 [20:49<04:49, 9.64s/it]print dice: 0.
    5562167167663574, print_iou: 0.38524943590164185
6315 masks_dr unique: tensor([-7.9493, -7.9482, -7.9352, ..., 13.0047, 13.0047, 13.0059],
           grad_fn=<Unique2Backward0>)
6316
6317 masks_dr unique: tensor([-7.9493, -7.9482, -7.9352, ..., 13.0047, 13.0047, 13.0059],
           grad_fn=<Unique2Backward0>)
6319 Epoch 24/499: 82%| | 131/160 [20:58<04:38, 9.60s/it]print_dice: 0.
    5359938740730286, print iou: 0.3661144971847534
6320 masks dr unique: tensor([-7.7048, -7.6964, -7.6751, ..., 11.6475, 11.6475, 11.6508],
           grad_fn=<Unique2Backward0>)
6321
6322 masks_dr unique: tensor([-7.7048, -7.6964, -7.6751, ..., 11.6475, 11.6475, 11.6508],
           grad_fn=<Unique2Backward0>)
6323
                            132/160 [21:08<04:29, 9.61s/it]print dice: 0.
6324 Epoch 24/499: 82%
                       print_iou: 0.41845983266830444
    5900200009346008,
6325 masks_dr unique: tensor([-7.6873, -7.6861, -7.6787, ..., 11.9357, 11.9365, 11.9402],
           grad fn=<Unique2Backward0>)
6326
```

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6327 masks_dr unique: tensor([-7.6873, -7.6861, -7.6787, ..., 11.9357, 11.9365, 11.9402],
           grad_fn=<Unique2Backward0>)
6329 print_dice: 0.4399712383747101, print_iou: 0.2820276618003845
6330 Epoch 24/499: 83%| | 133/160 [21:17<04:19, 9.61s/it]masks_dr unique: tensor([-7.
    5040, -7.4966, -7.4918, ..., 11.6715, 11.6758, 11.6787],
           grad fn=<Unique2Backward0>)
6331
6332 masks_dr unique: tensor([-7.5040, -7.4966, -7.4918, ..., 11.6715, 11.6758, 11.6787],
           grad_fn=<Unique2Backward0>)
6333
6334 Epoch 24/499: 84% | 134/160 [21:27<04:08, 9.55s/it]print_dice: 0.
    49129197001457214, print_iou: 0.325637549161911
6335 masks dr unique: tensor([-7.7046, -7.6963, -7.6751, ..., 11.6462, 11.6463, 11.6494],
           grad_fn=<Unique2Backward0>)
6336
6337 masks_dr unique: tensor([-7.7046, -7.6963, -7.6751, ..., 11.6462, 11.6463, 11.6494],
           grad fn=<Unique2Backward0>)
6339 Epoch 24/499: 84%| | 135/160 [21:36<03:58, 9.53s/it]print_dice: 0.
    4666973650455475, print_iou: 0.30437394976615906
6340 masks_dr unique: tensor([-7.6092, -7.5991, -7.5978, ..., 12.1011, 12.1052, 12.1089],
           grad_fn=<Unique2Backward0>)
6342 masks_dr unique: tensor([-7.6092, -7.5991, -7.5978, ..., 12.1011, 12.1052, 12.1089],
           grad_fn=<Unique2Backward0>)
6344 Epoch 24/499: 85% | 136/160 [21:46<03:49, 9.58s/it]print_dice: 0.
                      print_iou: 0.4080401062965393
    5795859098434448,
6345 masks_dr unique: tensor([-7.6690, -7.6559, -7.6429, ..., 11.9897, 11.9946, 11.9975],
6346
           grad fn=<Unique2Backward0>)
6347 masks dr unique: tensor([-7.6690, -7.6559, -7.6429, ..., 11.9897, 11.9946, 11.9975],
6348
           grad_fn=<Unique2Backward0>)
6349 print dice: 0.48249825835227966, print_iou: 0.3179556429386139
6350 Epoch 24/499: 86%| 86%| | 137/160 [21:56<03:41, 9.63s/it]masks_dr unique: tensor([-7.
    7052, -7.6970, -7.6758, ..., 11.6477, 11.6483, 11.6512],
6351
           grad fn=<Unique2Backward0>)
6352 masks_dr unique: tensor([-7.7052, -7.6970, -7.6758, ..., 11.6477, 11.6483, 11.6512],
6353
           grad_fn=<Unique2Backward0>)
6354 Epoch 24/499: 86%| 86%| 138/160 [22:05<03:32, 9.64s/it]print_dice: 0.
    4978256821632385, print iou: 0.3314034044742584
6355 masks_dr unique: tensor([-7.6326, -7.6053, -7.6031, ..., 11.4927, 11.4989, 11.5028],
6356
           grad_fn=<Unique2Backward0>)
6357 masks_dr unique: tensor([-7.6326, -7.6053, -7.6031, ..., 11.4927, 11.4989, 11.5028],
6358
           grad_fn=<Unique2Backward0>)
6359 print_dice: 0.46353399753570557, print_iou: 0.30168843269348145
6360 Epoch 24/499: 87%| | | 139/160 [22:15<03:21, 9.58s/it]masks_dr unique: tensor([-7.
    4994, -7.4928, -7.4862, ..., 12.7549, 12.7552, 12.7564],
           grad_fn=<Unique2Backward0>)
6361
6362 masks_dr unique: tensor([-7.4994, -7.4928, -7.4862, ..., 12.7549, 12.7552, 12.7564],
           grad_fn=<Unique2Backward0>)
6364 Epoch 24/499: 88% | 140/160 [22:24<03:11, 9.58s/it]print_dice: 0.
    6408875584602356, print_iou: 0.47154858708381653
6365 masks_dr unique: tensor([-7.8014, -7.7993, -7.7845, ..., 12.9871, 12.9893, 12.9895],
6366
           grad_fn=<Unique2Backward0>)
6367 masks_dr unique: tensor([-7.8014, -7.7993, -7.7845, ..., 12.9871, 12.9893, 12.9895],
6368
           grad_fn=<Unique2Backward0>)
6369 Epoch 24/499: 88% | 141/160 [22:34<03:02, 9.58s/it]print_dice: 0.
    5394191145896912, print_iou: 0.3693181872367859
6370 masks dr unique: tensor([-7.9761, -7.9758, -7.9654, ..., 12.9706, 12.9729, 12.9754],
6371
           grad_fn=<Unique2Backward0>)
6372 masks_dr unique: tensor([-7.9761, -7.9758, -7.9654, ..., 12.9706, 12.9729, 12.9754],
           grad_fn=<Unique2Backward0>)
6373
6374 print_dice: 0.5137102603912354, print_iou: 0.3456326723098755
                        142/160 [22:43<02:51, 9.52s/it]masks_dr unique: tensor([-7.
6375 Epoch 24/499: 89%
    3734, -7.3709, -7.3660, ..., 12.8781, 12.8784, 12.8784],
           grad_fn=<Unique2Backward0>)
6376
6377 masks_dr unique: tensor([-7.3734, -7.3709, -7.3660, ..., 12.8781, 12.8784, 12.8784],
           grad_fn=<Unique2Backward0>)
6379 Epoch 24/499: 89% | 143/160 [22:53<02:41, 9.51s/it]print dice: 0.
    5570980310440063, print_iou: 0.3860955536365509
6380 masks_dr unique: tensor([-7.5432, -7.5319, -7.5230, ..., 11.9262, 11.9278, 11.9308],
           grad_fn=<Unique2Backward0>)
6381
6382 masks_dr unique: tensor([-7.5432, -7.5319, -7.5230, ..., 11.9262, 11.9278, 11.9308],
           grad fn=<Unique2Backward0>)
6383
6384 Epoch 24/499: 90% | 144/160 [23:03<02:32, 9.56s/it]print dice: 0.
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6384 48773401975631714,
                      print iou: 0.3225186765193939
6385 masks_dr unique: tensor([-7.7076, -7.6993, -7.6782, ..., 11.6544, 11.6549, 11.6579],
           grad fn=<Unique2Backward0>)
6387 masks_dr unique: tensor([-7.7076, -7.6993, -7.6782, ..., 11.6544, 11.6549, 11.6579],
           grad_fn=<Unique2Backward0>)
6389 print_dice: 0.4446928799152374, print_iou: 0.2859196662902832
6390 Epoch 24/499: 91%| | 145/160 [23:12<02:24, 9.61s/it]masks_dr unique: tensor([-7.
    7095, -7.7011, -7.6800, ..., 11.6505, 11.6507, 11.6539],
6391
           grad_fn=<Unique2Backward0>)
6392 masks_dr unique: tensor([-7.7095, -7.7011, -7.6800, ..., 11.6505, 11.6507, 11.6539],
           grad_fn=<Unique2Backward0>)
6394 print_dice: 0.5392870306968689, print_iou: 0.3691943883895874
6395 Epoch 24/499: 91%| | 146/160 [23:22<02:14, 9.63s/it]masks_dr unique: tensor([-7.
    7084, -7.7001, -7.6790, ..., 11.6500, 11.6501, 11.6533],
6396
           grad_fn=<Unique2Backward0>)
6397 masks_dr unique: tensor([-7.7084, -7.7001, -7.6790, ..., 11.6500, 11.6501, 11.6533],
           grad fn=<Unique2Backward0>)
6399 print_dice: 0.5574958920478821, print_iou: 0.38647785782814026
6900, -7.6853, -7.6826, ..., 12.6520, 12.6525, 12.6529],
6401
           grad_fn=<Unique2Backward0>)
6402 masks_dr unique: tensor([-7.6900, -7.6853, -7.6826, ..., 12.6520, 12.6525, 12.6529],
6403
           grad fn=<Unique2Backward0>)
6404 print_dice: 0.4879250228404999, print_iou: 0.32268574833869934
6405 Epoch 24/499: 92% | 148/160 [23:41<01:55, 9.60s/it]masks dr unique: tensor([-7.
    7112, -7.7029, -7.6817, ..., 11.6514, 11.6541, 11.6541],
6406
           grad fn=<Unique2Backward0>)
6407 masks_dr unique: tensor([-7.7112, -7.7029, -7.6817, ..., 11.6514, 11.6541, 11.6541],
           grad_fn=<Unique2Backward0>)
6408
6409 Epoch 24/499: 93%| | 149/160 [23:51<01:45, 9.56s/it]print_dice: 0.
    5350962281227112, print_iou: 0.36527737975120544
6410 masks dr unique: tensor([-7.6735, -7.6702, -7.6579, ..., 13.0821, 13.0825, 13.0856],
           grad_fn=<Unique2Backward0>)
6412 masks_dr unique: tensor([-7.6735, -7.6702, -7.6579, ..., 13.0821, 13.0825, 13.0856],
6413
           grad_fn=<Unique2Backward0>)
5472476482391357, print_iou: 0.3766971528530121
6415 masks dr unique: tensor([-7.3935, -7.3932, -7.3825, ..., 12.5658, 12.5667, 12.5671],
6416
           grad_fn=<Unique2Backward0>)
6417 masks_dr unique: tensor([-7.3935, -7.3932, -7.3825, ..., 12.5658, 12.5667, 12.5671],
6418
           grad_fn=<Unique2Backward0>)
6419 print_dice: 0.5233821868896484, print_iou: 0.3544465899467468
6420 Epoch 24/499: 94%| 94%| 151/160 [24:10<01:26, 9.56s/it]masks_dr unique: tensor([-7.
    6575, -7.6527, -7.6387, ..., 12.8633, 12.8640, 12.8679],
6421
           grad_fn=<Unique2Backward0>)
6422 masks_dr unique: tensor([-7.6575, -7.6527, -7.6387, ..., 12.8633, 12.8640, 12.8679],
           grad_fn=<Unique2Backward0>)
6424 Epoch 24/499: 95% 95% 152/160 [24:19<01:16, 9.61s/it]print_dice: 0.541955292224884
        print_iou: 0.3717000484466553
6425 masks dr unique: tensor([-7.7530, -7.7512, -7.7417, ..., 12.4381, 12.4420, 12.4449],
6426
           grad_fn=<Unique2Backward0>)
6427 masks_dr unique: tensor([-7.7530, -7.7512, -7.7417, ..., 12.4381, 12.4420, 12.4449],
           grad fn=<Unique2Backward0>)
6428
6429 print dice: 0.44242775440216064,
                                     print iou: 0.2840495705604553
6430 Epoch 24/499: 96%| 96%| 153/160 [24:29<01:07, 9.60s/it]masks_dr unique: tensor([-7.
    7152, -7.7069, -7.6858, ..., 11.6533, 11.6560, 11.6563],
           grad_fn=<Unique2Backward0>)
6431
6432 masks_dr unique: tensor([-7.7152, -7.7069, -7.6858, ..., 11.6533, 11.6560, 11.6563],
           grad_fn=<Unique2Backward0>)
                              154/160 [24:39<00:57, 9.65s/it]print_dice: 0.
6434 Epoch 24/499: 96%
    5227844715118408, print iou: 0.3538985848426819
6435 masks dr unique: tensor([-7.6795, -7.6518, -7.6478, ..., 12.3471, 12.3522, 12.3590],
           grad_fn=<Unique2Backward0>)
6436
6437 masks_dr unique: tensor([-7.6795, -7.6518, -7.6478, ..., 12.3471, 12.3522, 12.3590],
           grad_fn=<Unique2Backward0>)
6438
                              | 155/160 [24:48<00:48, 9.69s/it]print dice: 0.
6439 Epoch 24/499: 97%
                       print_iou: 0.3369198143482208
    5040239691734314,
6440 masks_dr unique: tensor([-7.7168, -7.7084, -7.6873, ..., 11.6568, 11.6578, 11.6608],
           grad fn=<Unique2Backward0>)
6441
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6442 masks_dr unique: tensor([-7.7168, -7.7084, -7.6873, ..., 11.6568, 11.6578, 11.6608],
           grad fn=<Unique2Backward0>)
6444 Epoch 24/499: 98% 98% 156/160 [24:58<00:38, 9.68s/it]print dice: 0.
    5597875714302063,
                       print_iou: 0.3886840045452118
6445 masks dr unique: tensor([-7.8435, -7.8397, -7.8279, ..., 13.1600, 13.1610, 13.1613],
           grad_fn=<Unique2Backward0>)
6447 masks_dr unique: tensor([-7.8435, -7.8397, -7.8279, ..., 13.1600, 13.1610, 13.1613],
           grad_fn=<Unique2Backward0>)
6448
6449 Epoch 24/499: 98% 98% 157/160 [25:08<00:28, 9.62s/it]print_dice: 0.
    4771513044834137, print_iou: 0.3133281171321869
6450 masks dr unique: tensor([-7.4361, -7.4318, -7.4317, ..., 11.6668, 11.6698, 11.6756],
           grad_fn=<Unique2Backward0>)
6451
6452 masks_dr unique: tensor([-7.4361, -7.4318, -7.4317, ..., 11.6668, 11.6698, 11.6756],
           grad fn=<Unique2Backward0>)
6454 Epoch 24/499: 99%| 158/160 [25:17<00:19, 9.57s/it]print dice: 0.
    49226370453834534, print_iou: 0.3264918923377991
6455 masks_dr unique: tensor([-7.8357, -7.8344, -7.8287, ..., 11.8029, 11.8062, 11.8106],
           grad_fn=<Unique2Backward0>)
6457 masks_dr unique: tensor([-7.8357, -7.8344, -7.8287, ..., 11.8029, 11.8062, 11.8106],
           grad fn=<Unique2Backward0>)
6459 Epoch 24/499: 99%| 159/160 [25:27<00:09, 9.62s/it]print_dice: 0.
                      print_iou: 0.29148992896080017
    4514009952545166,
6460 masks dr unique: tensor([-7.9939, -7.9798, -7.9760, ..., 13.0898, 13.0914, 13.0918],
           grad fn=<Unique2Backward0>)
6461
6462 masks dr unique: tensor([-7.9939, -7.9798, -7.9760, ..., 13.0898, 13.0914, 13.0918],
           grad fn=<Unique2Backward0>)
6463
6464 print dice: 0.5856695771217346, print iou: 0.4140967130661011
      [159/160] eta: 0:00:09 time: 9.5966 data: 0.0026
6466 Epoch 24/499: 100%| 100%| 160/160 [25:37<00:00, 9.61s/it]
6467 Total time: 0:25:37 (9.6101 s / it)
6468 Averaged stats: training_loss: -496.6789 (-496.6789) loss_mask: -496.6549 (-496.6549)
    loss dice: -0.0240 (-0.0240)
                   | 0/12 [00:00<?, ?it/s]Net parameter norm: 1054.424048274057
      0%|
6470 Validating...
6471 Valid_dataloader len: 12
6472 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.2048e-04, 4.
    7563e-04, 5.0846e-04, ..., 1.0000e+00, 1.0000e+00,
6473
            1.0000e+00], grad_fn=<Unique2Backward0>)
6474 masks_dr unique: tensor([7.1140e-04, 7.1223e-04, 7.1367e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
6475
6476 print_dice: 0.5573974847793579, print_iou: 0.3863832652568817
      [ 0/12] eta: 0:02:06
                              time: 10.5661 data: 4.8932
6477
                   | 1/12 [00:10<01:56, 10.57s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
6478
    ]) unique sigmoid values: tensor([2.9776e-04, 3.3091e-04, 3.6338e-04, ..., 1.0000e+00, 1.
    0000e+00,
6479
            1.0000e+00], grad_fn=<Unique2Backward0>)
6480 masks_dr unique: tensor([5.6529e-04, 5.6860e-04, 5.7028e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
6481
                   | 2/12 [00:16<01:17, 7.75s/it]print_dice: 0.6071499586105347, print_iou: 0.
6482 17%
    43590474128723145
6483 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.2605e-04, 3.
    5194e-04, 3.6230e-04, ..., 9.9999e-01, 9.9999e-01,
6484
            9.9999e-01], grad_fn=<Unique2Backward0>)
6485 masks_dr unique: tensor([5.2213e-04, 5.2569e-04, 5.2846e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
6487 print_dice: 0.532149612903595, print_iou: 0.3625366687774658
                   6488 25%
    ]) unique sigmoid values: tensor([4.2390e-04, 4.4738e-04, 4.6876e-04, ..., 9.9999e-01, 9.
    9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
6489
6490 masks_dr unique: tensor([5.9920e-04, 6.0317e-04, 6.1019e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
                   4/12 [00:28<00:53, 6.68s/it]print_dice: 0.5166921019554138, print_iou: 0.
6492 33%
    34833770990371704
6493 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.2562e-04, 3.
    5189e-04, 3.6205e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
6494
6495 masks dr unique: tensor([5.2162e-04, 5.2519e-04, 5.2809e-04, ..., 9.9999e-01, 9.9999e-01,
6496
            9.9999e-01], grad fn=<Unique2Backward0>)
```

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6497 print dice: 0.5778328776359558, print iou: 0.4063044786453247
                   | 5/12 [00:34<00:44, 6.37s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.4853e-04, 3.8678e-04, 3.8807e-04, ..., 9.9999e-01, 9.
    9999e-01,
6499
            9.9999e-01], grad_fn=<Unique2Backward0>)
6500 masks_dr unique: tensor([5.6296e-04, 5.7654e-04, 5.7746e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
6502 print_dice: 0.5095956325531006, print_iou: 0.34191766381263733
                  6/12 [00:40<00:36, 6.15s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([4.5560e-04, 5.4342e-04, 5.6604e-04, ..., 1.0000e+00, 1.
    0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
6504
6505 masks_dr unique: tensor([5.9085e-04, 6.0639e-04, 6.2102e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
                    | 7/12 [00:46<00:31, 6.22s/it]print_dice: 0.4389849305152893, print_iou: 0.
6507 58%
    28121763467788696
6508 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.2571e-04, 3.
    5176e-04, 3.6215e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
6509
6510 masks_dr unique: tensor([5.2210e-04, 5.2560e-04, 5.2831e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
6511
                  8/12 [00:52<00:24, 6.03s/it]print_dice: 0.5451089143753052, print_iou: 0.
6512 67%
    37467336654663086
6513 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.0652e-04, 4.
    2861e-04, 4.5255e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
6514
6515 masks dr unique: tensor([6.3515e-04, 6.4273e-04, 6.4648e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
6517 print_dice: 0.5638445615768433, print_iou: 0.3926069140434265
                  | 9/12 [00:58<00:18, 6.10s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.2587e-04, 3.5210e-04, 3.6205e-04, ..., 9.9999e-01, 9.
    9999e-01,
6519
            9.9999e-01], grad_fn=<Unique2Backward0>)
6520 masks_dr unique: tensor([5.2198e-04, 5.2552e-04, 5.2830e-04, ..., 9.9999e-01, 9.9999e-01,
6521
            9.9999e-01], grad_fn=<Unique2Backward0>)
6522 print_dice: 0.5746942758560181, print_iou: 0.4032077491283417
            | 10/12 [01:04<00:11, 5.97s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([2.9223e-04, 3.0467e-04, 3.3623e-04, ..., 9.9999e-01, 9.
    9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
6524
6525 masks_dr unique: tensor([6.2022e-04, 6.3712e-04, 6.5402e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
6526
6527 92%||
          | 11/12 [01:09<00:05, 5.83s/it]print_dice: 0.6204810738563538, print_iou: 0
     .44978076219558716
6528 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.1352e-04, 2.
    6751e-04, 2.7213e-04, ..., 1.0000e+00, 1.0000e+00,
6529
            1.0000e+00], grad_fn=<Unique2Backward0>)
6530 masks_dr unique: tensor([4.4017e-04, 4.4059e-04, 4.4127e-04, ..., 1.0000e+00, 1.0000e+00,
6531
            1.0000e+00], grad_fn=<Unique2Backward0>)
6532 print_dice: 0.5834257006645203, print_iou: 0.4118567407131195
      [11/12] eta: 0:00:06
                             time: 6.2559 data: 0.4081
6533
            12/12 [01:15<00:00, 6.29s/it]
6535 Total time: 0:01:15 (6.2882 s / it)
6536 ============
6537 Averaged stats:
                                                                   25
6538 Epoch 25/499:
                                 | 0/160 [00:00<?, ?it/s]epoch:
                                                                        learning rate:
                                                                                        1e-07
6539 masks_dr unique: tensor([-7.7186, -7.7103, -7.6892, ..., 11.6533, 11.6562, 11.6563],
6540
           grad_fn=<Unique2Backward0>)
6541 masks_dr unique: tensor([-7.7186, -7.7103, -7.6892, ..., 11.6533, 11.6562, 11.6563],
           grad fn=<Unique2Backward0>)
6542
                                 | 1/160 [00:14<37:29, 14.15s/it]print_dice: 0.4852210581302643
6543 Epoch 25/499:
                    1%|
        print iou: 0.3203246593475342
                                 time: 14.1476 data: 4.4794
     [ 0/160] eta: 0:37:43
6545 masks dr unique: tensor([-7.6460, -7.6212, -7.5978, ..., 11.8974, 11.9005, 11.9010],
           grad fn=<Unique2Backward0>)
6546
6547 masks dr unique: tensor([-7.6460, -7.6212, -7.5978, ..., 11.8974, 11.9005, 11.9010],
           grad fn=<Unique2Backward0>)
6548
6549 print dice: 0.5439265966415405,
                                      print iou: 0.37355712056159973
6550 Epoch 25/499:
                    1%||
                                 2/160 [00:23<30:14, 11.48s/it]masks dr unique: tensor([-7.
```

```
6550 3370, -7.3348, -7.3329, ..., 11.4061, 11.4080, 11.4143],
           grad_fn=<Unique2Backward0>)
6552 masks_dr unique: tensor([-7.3370, -7.3348, -7.3329, ..., 11.4061, 11.4080, 11.4143],
           grad fn=<Unique2Backward0>)
6553
6554 print dice: 0.4567185938358307, print_iou: 0.29593992233276367
6555 Epoch 25/499: 2%|| 3/160 [00:33<27:51, 10.65s/it]masks_dr unique: tensor([-7.
    9063, -7.9037, -7.8881, ..., 13.0230, 13.0251, 13.0252],
6556
           grad_fn=<Unique2Backward0>)
6557 masks_dr unique: tensor([-7.9063, -7.9037, -7.8881, ..., 13.0230, 13.0251, 13.0252],
6558
           grad fn=<Unique2Backward0>)
6559 Epoch 25/499:
                    2%
                                  4/160 [00:42<26:23, 10.15s/it]print_dice: 0.5224184393882751
        print iou: 0.35356318950653076
6560 masks_dr unique: tensor([-7.7207, -7.7124, -7.6915, ..., 11.6574, 11.6595, 11.6625],
           grad fn=<Unique2Backward0>)
6562 masks_dr unique: tensor([-7.7207, -7.7124, -7.6915, ..., 11.6574, 11.6595, 11.6625],
           grad_fn=<Unique2Backward0>)
6563
6564 Epoch 25/499:
                    3%|
                                  | 5/160 [00:52<25:48, 9.99s/it]print_dice: 0.506449818611145
        print_iou: 0.3390912711620331
6565 masks_dr unique: tensor([-7.7608, -7.7527, -7.7445, ..., 12.3608, 12.3614, 12.3620],
           grad_fn=<Unique2Backward0>)
6567 masks_dr unique: tensor([-7.7608, -7.7527, -7.7445, ..., 12.3608, 12.3614, 12.3620],
           grad_fn=<Unique2Backward0>)
6568
6569 Epoch 25/499:
                    4%
                                  6/160 [01:02<25:23, 9.90s/it]print_dice: 0.5147051215171814
        print iou: 0.34653395414352417
6570 masks_dr unique: tensor([-7.7221, -7.7140, -7.6931, ..., 11.6562, 11.6587, 11.6592],
6571
           grad_fn=<Unique2Backward0>)
6572 masks_dr unique: tensor([-7.7221, -7.7140, -7.6931, ..., 11.6562, 11.6587, 11.6592],
           grad fn=<Unique2Backward0>)
6573
                                  7/160 [01:11<24:58, 9.80s/it]print_dice: 0.5070062875747681
6574 Epoch 25/499:
                    4%||
        print iou: 0.3395904004573822
6575 masks_dr unique: tensor([-7.7225, -7.7143, -7.6935, ..., 11.6552, 11.6553, 11.6586],
6576
           grad fn=<Unique2Backward0>)
6577 masks_dr unique: tensor([-7.7225, -7.7143, -7.6935, ..., 11.6552, 11.6553, 11.6586],
           grad_fn=<Unique2Backward0>)
6578
6579 print_dice: 0.566031813621521, print_iou: 0.3947310745716095
6580 Epoch 25/499: 5%
                                 8/160 [01:21<24:39, 9.73s/it]masks_dr unique: tensor([-7.
    7230, -7.7150, -7.6943, ..., 11.6538, 11.6545, 11.6570],
6581
           grad_fn=<Unique2Backward0>)
6582 masks_dr unique: tensor([-7.7230, -7.7150, -7.6943, ..., 11.6538, 11.6545, 11.6570],
           grad fn=<Unique2Backward0>)
6583
                    6%
                                  9/160 [01:31<24:27, 9.72s/it]print_dice: 0.5487845540046692
6584 Epoch 25/499:
        print_iou: 0.37815508246421814
6585 masks_dr unique: tensor([-7.5287, -7.5279, -7.5171, ..., 13.0643, 13.0649, 13.0651],
           grad_fn=<Unique2Backward0>)
6587 masks_dr unique: tensor([-7.5287, -7.5279, -7.5171, ..., 13.0643, 13.0649, 13.0651],
6588
           grad_fn=<Unique2Backward0>)
                                  | 10/160 [01:40<24:16, 9.71s/it]print_dice: 0.6161881685256958
6589 Epoch 25/499:
                    6%|
        print_iou: 0.4452832043170929
6590 masks_dr unique: tensor([-8.0731, -8.0591, -8.0562, ..., 12.4164, 12.4191, 12.4239],
           grad fn=<Unique2Backward0>)
6592 masks_dr unique: tensor([-8.0731, -8.0591, -8.0562, ..., 12.4164, 12.4191, 12.4239],
           grad fn=<Unique2Backward0>)
6593
                                  | 11/160 [01:50<23:59, 9.66s/it]print_dice: 0.5489562749862671
6594 Epoch 25/499:
                    7%
        print_iou: 0.3783182203769684
6595 masks_dr unique: tensor([-7.7301, -7.7221, -7.7188, ..., 12.2176, 12.2229, 12.2233],
           grad_fn=<Unique2Backward0>)
6596
6597 masks_dr unique: tensor([-7.7301, -7.7221, -7.7188, ..., 12.2176, 12.2229, 12.2233],
6598
           grad_fn=<Unique2Backward0>)
6599 Epoch 25/499:
                    8%|
                                  | 12/160 [01:59<23:46, 9.64s/it]print_dice: 0.533850908279419
        print_iou: 0.36411774158477783
6600 masks_dr unique: tensor([-7.3342, -7.3321, -7.3260, ..., 12.7796, 12.7797, 12.7797],
           grad fn=<Unique2Backward0>)
6602 masks_dr unique: tensor([-7.3342, -7.3321, -7.3260, ..., 12.7796, 12.7797, 12.7797],
           grad fn=<Unique2Backward0>)
6603
                    8%|
                                  | 13/160 [02:09<23:31, 9.60s/it]print dice: 0.5124421715736389
6604 Epoch 25/499:
        print_iou: 0.3444855213165283
6605 masks_dr unique: tensor([-7.6019, -7.5804, -7.5728, ..., 11.8464, 11.8521, 11.8569],
           grad fn=<Unique2Backward0>)
6607 masks dr unique: tensor([-7.6019, -7.5804, -7.5728, ..., 11.8464, 11.8521, 11.8569],
```

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grad fn=<Unique2Backward0>)
6609 print_dice: 0.5640966296195984, print_iou: 0.39285141229629517
6610 Epoch 25/499:
                    9%|■ | 14/160 [02:19<23:20, 9.59s/it]masks_dr unique: tensor([-7.
    8116, -7.7953, -7.7924, ..., 12.2374, 12.2430, 12.2486],
           grad fn=<Unique2Backward0>)
6612 masks_dr unique: tensor([-7.8116, -7.7953, -7.7924, ..., 12.2374, 12.2430, 12.2486],
           grad fn=<Unique2Backward0>)
6613
6614 print_dice: 0.5084927678108215, print_iou: 0.3409254252910614
6615 Epoch 25/499: 9%|  | 15/160 [02:28<23:13, 9.61s/it]masks_dr unique: tensor([-7.
    7284, -7.7206, -7.7001, ..., 11.6544, 11.6560, 11.6571],
           grad fn=<Unique2Backward0>)
6616
6617 masks_dr unique: tensor([-7.7284, -7.7206, -7.7001, ..., 11.6544, 11.6560, 11.6571],
           grad fn=<Unique2Backward0>)
6618
6619 Epoch 25/499: 10%
                                 | 16/160 [02:38<22:58, 9.58s/it]print dice: 0.5461781024932861
        print_iou: 0.37568432092666626
6620 masks_dr unique: tensor([-7.6825, -7.6642, -7.6517, ..., 12.1266, 12.1272, 12.1306],
           grad_fn=<Unique2Backward0>)
6622 masks_dr unique: tensor([-7.6825, -7.6642, -7.6517, ..., 12.1266, 12.1272, 12.1306],
6623
           grad_fn=<Unique2Backward0>)
6624 Epoch 25/499: 11%
                                 | 17/160 [02:47<22:41, 9.52s/it]print_dice: 0.
    47170233726501465, print_iou: 0.3086456060409546
6625 masks dr unique: tensor([-7.7848, -7.7754, -7.7660, ..., 12.7852, 12.7861, 12.7869],
           grad fn=<Unique2Backward0>)
6626
6627 masks_dr unique: tensor([-7.7848, -7.7754, -7.7660, ..., 12.7852, 12.7861, 12.7869],
           grad fn=<Unique2Backward0>)
                                 | 18/160 [02:56<22:27, 9.49s/it]print dice: 0.5475476980209351
6629 Epoch 25/499: 11%
        print iou: 0.37698155641555786
6630 masks_dr unique: tensor([-7.7304, -7.7226, -7.7022, ..., 11.6574, 11.6600, 11.6603],
           grad fn=<Unique2Backward0>)
6632 masks_dr unique: tensor([-7.7304, -7.7226, -7.7022, ..., 11.6574, 11.6600, 11.6603],
           grad fn=<Unique2Backward0>)
6634 print_dice: 0.492647260427475, print_iou: 0.3268294632434845
6635 Epoch 25/499: 12%
                               | 19/160 [03:06<22:20, 9.51s/it]masks_dr unique: tensor([-7.
    6766, -7.6709, -7.6613, ..., 12.3478, 12.3520, 12.3568],
6636
           grad_fn=<Unique2Backward0>)
6637 masks_dr unique: tensor([-7.6766, -7.6709, -7.6613, ..., 12.3478, 12.3520, 12.3568],
           grad_fn=<Unique2Backward0>)
6638
6639 print_dice: 0.4732247591018677, print_iou: 0.30995050072669983
6640 Epoch 25/499: 12% 20/160 [03:16<22:17, 9.56s/it] masks_dr unique: tensor([-7.
    7707, -7.7603, -7.7521, ..., 13.1007, 13.1012, 13.1016],
6641
           grad_fn=<Unique2Backward0>)
6642 masks_dr unique: tensor([-7.7707, -7.7603, -7.7521, ..., 13.1007, 13.1012, 13.1016],
           grad_fn=<Unique2Backward0>)
6643
6644 Epoch 25/499: 13%
                                 21/160 [03:25<22:15, 9.61s/it]print_dice: 0.5014531016349792
        print_iou: 0.3346262276172638
6645 masks_dr unique: tensor([-7.7549, -7.7450, -7.7295, ..., 12.0949, 12.0998, 12.1031],
           grad_fn=<Unique2Backward0>)
6647 masks_dr unique: tensor([-7.7549, -7.7450, -7.7295, ..., 12.0949, 12.0998, 12.1031],
6648
           grad_fn=<Unique2Backward0>)
6649 Epoch 25/499: 14%
                                 22/160 [03:35<22:05, 9.60s/it]print_dice: 0.5343559384346008
        print iou: 0.36458778381347656
6650 masks_dr unique: tensor([-7.7093, -7.7061, -7.6940, ..., 13.0693, 13.0696, 13.0698],
           grad_fn=<Unique2Backward0>)
6652 masks_dr unique: tensor([-7.7093, -7.7061, -7.6940, ..., 13.0693, 13.0696, 13.0698],
           grad_fn=<Unique2Backward0>)
6654 Epoch 25/499: 14%
                                 23/160 [03:45<21:54, 9.60s/it]print_dice: 0.5512521862983704
        print_iou: 0.38050252199172974
6655 masks_dr unique: tensor([-7.4687, -7.4588, -7.4505, ..., 12.0722, 12.0722, 12.0758],
           grad_fn=<Unique2Backward0>)
6657 masks_dr unique: tensor([-7.4687, -7.4588, -7.4505, ..., 12.0722, 12.0722, 12.0758],
           grad_fn=<Unique2Backward0>)
6658
6659 Epoch 25/499: 15%
                                 24/160 [03:54<21:48, 9.62s/it]print_dice: 0.594094455242157
        print_iou: 0.42257070541381836
6660 masks dr unique: tensor([-7.7366, -7.7289, -7.7087, ..., 11.6570, 11.6585, 11.6599],
           grad fn=<Unique2Backward0>)
6661
6662 masks dr unique: tensor([-7.7366, -7.7289, -7.7087, ..., 11.6570, 11.6585, 11.6599],
           grad fn=<Unique2Backward0>)
6663
6664 print dice: 0.5126868486404419, print iou: 0.3447067439556122
6665 Epoch 25/499: 16%
                                 | 25/160 [04:04<21:44, 9.67s/it]masks_dr unique: tensor([-7.
```

```
6665 3468, -7.3375, -7.3321, ..., 12.1188, 12.1238, 12.1298],
6666
           grad_fn=<Unique2Backward0>)
6667 masks_dr unique: tensor([-7.3468, -7.3375, -7.3321, ..., 12.1188, 12.1238, 12.1298],
           grad fn=<Unique2Backward0>)
6668
6669 print dice: 0.49903297424316406, print_iou: 0.3324742913246155
6670 Epoch 25/499: 16%
    9842, -7.9841, -7.9744, ..., 13.0144, 13.0154, 13.0159],
6671
           grad_fn=<Unique2Backward0>)
6672 masks_dr unique: tensor([-7.9842, -7.9841, -7.9744, ..., 13.0144, 13.0154, 13.0159],
           grad fn=<Unique2Backward0>)
6673
6674 Epoch 25/499: 17%
                                27/160 [04:23<21:21, 9.64s/it]print_dice: 0.5854688286781311
        print iou: 0.41389602422714233
6675 masks_dr unique: tensor([-7.7537, -7.7337, -7.7285, ..., 12.3038, 12.3043, 12.3078],
           grad fn=<Unique2Backward0>)
6677 masks_dr unique: tensor([-7.7537, -7.7337, -7.7285, ..., 12.3038, 12.3043, 12.3078],
           grad_fn=<Unique2Backward0>)
6679 Epoch 25/499: 18%
                                28/160 [04:33<21:13, 9.65s/it]print_dice: 0.5318909287452698
        print_iou: 0.36229661107063293
6680 masks_dr unique: tensor([-7.8932, -7.8897, -7.8867, ..., 12.7555, 12.7564, 12.7565],
           grad_fn=<Unique2Backward0>)
6682 masks_dr unique: tensor([-7.8932, -7.8897, -7.8867, ..., 12.7555, 12.7564, 12.7565],
           grad_fn=<Unique2Backward0>)
6684 print dice: 0.5904406309127808, print iou: 0.4188831150531769
6685 Epoch 25/499: 18%
    7389, -7.7314, -7.7113, ..., 11.6606, 11.6609, 11.6637],
           grad_fn=<Unique2Backward0>)
6686
6687 masks dr unique: tensor([-7.7389, -7.7314, -7.7113, ..., 11.6606, 11.6609, 11.6637],
6688
           grad fn=<Unique2Backward0>)
6689 print dice: 0.5541319251060486, print_iou: 0.3832520842552185
                          | 30/160 [04:52<20:58, 9.68s/it]masks_dr unique: tensor([-7.
6690 Epoch 25/499: 19%
    5025, -7.4835, -7.4657, ..., 12.1749, 12.1782, 12.1806],
6691
           grad_fn=<Unique2Backward0>)
6692 masks dr unique: tensor([-7.5025, -7.4835, -7.4657, ..., 12.1749, 12.1782, 12.1806],
6693
           grad_fn=<Unique2Backward0>)
6694 print_dice: 0.6100789904594421, print_iou: 0.4389306902885437
6695 Epoch 25/499: 19% 31/160 [05:02<20:41, 9.63s/it]masks_dr unique: tensor([-7.
    7381, -7.7307, -7.7107, ..., 11.6576, 11.6578, 11.6611],
6696
           grad_fn=<Unique2Backward0>)
6697 masks_dr unique: tensor([-7.7381, -7.7307, -7.7107, ..., 11.6576, 11.6578, 11.6611],
           grad fn=<Unique2Backward0>)
6698
                                | 32/160 [05:12<20:35, 9.65s/it]print_dice: 0.5301206707954407
6699 Epoch 25/499: 20%
        print_iou: 0.36065590381622314
6700 masks_dr unique: tensor([-7.4970, -7.4951, -7.4825, ..., 13.0490, 13.0497, 13.0499],
           grad_fn=<Unique2Backward0>)
6702 masks_dr unique: tensor([-7.4970, -7.4951, -7.4825, ..., 13.0490, 13.0497, 13.0499],
           grad_fn=<Unique2Backward0>)
6704 Epoch 25/499: 21%
                                33/160 [05:21<20:28, 9.67s/it]print_dice: 0.5059747695922852
        print_iou: 0.33866551518440247
6705 masks_dr unique: tensor([-7.6832, -7.6593, -7.6353, ..., 12.3011, 12.3061, 12.3110],
           grad fn=<Unique2Backward0>)
6707 masks_dr unique: tensor([-7.6832, -7.6593, -7.6353, ..., 12.3011, 12.3061, 12.3110],
           grad fn=<Unique2Backward0>)
6708
6709 print_dice: 0.5700494050979614, print_iou: 0.39864975214004517
6710 Epoch 25/499: 21%| | 34/160 [05:31<20:19, 9.68s/it]masks_dr unique: tensor([-7.
    7390, -7.7315, -7.7114, ..., 11.6557, 11.6571, 11.6596],
           grad_fn=<Unique2Backward0>)
6711
6712 masks_dr unique: tensor([-7.7390, -7.7315, -7.7114, ..., 11.6557, 11.6571, 11.6596],
6713
           grad_fn=<Unique2Backward0>)
6714 Epoch 25/499: 22%
                                | 35/160 [05:40<20:00, 9.61s/it]print_dice: 0.5498035550117493
        print_iou: 0.3791234791278839
6715 masks_dr unique: tensor([-7.7613, -7.7521, -7.7487, ..., 11.9200, 11.9222, 11.9236],
           grad fn=<Unique2Backward0>)
6716
6717 masks_dr unique: tensor([-7.7613, -7.7521, -7.7487, ..., 11.9200, 11.9222, 11.9236],
           grad fn=<Unique2Backward0>)
6718
6719 Epoch 25/499: 22%
                                36/160 [05:50<19:46, 9.57s/it]print_dice: 0.5422345995903015
        print_iou: 0.37196287512779236
6720 masks_dr unique: tensor([-7.7995, -7.7972, -7.7846, ..., 13.0889, 13.0900, 13.0902],
           grad_fn=<Unique2Backward0>)
6722 masks dr unique: tensor([-7.7995, -7.7972, -7.7846, ..., 13.0889, 13.0900, 13.0902],
```

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6723
           grad fn=<Unique2Backward0>)
6724 Epoch 25/499: 23%
                               37/160 [05:59<19:33, 9.54s/it]print_dice: 0.4781905710697174
        print iou: 0.3142249882221222
6725 masks_dr unique: tensor([-7.7376, -7.7302, -7.7101, ..., 11.6557, 11.6559, 11.6591],
           grad_fn=<Unique2Backward0>)
6727 masks_dr unique: tensor([-7.7376, -7.7302, -7.7101, ..., 11.6557, 11.6559, 11.6591],
           grad fn=<Unique2Backward0>)
6728
6729 Epoch 25/499: 24%
                                | 38/160 [06:09<19:30, 9.59s/it]print_dice: 0.4695852994918823
        print_iou: 0.3068353235721588
6730 masks_dr unique: tensor([-7.6302, -7.6117, -7.6097, ..., 11.7712, 11.7746, 11.7802],
           grad fn=<Unique2Backward0>)
6731
6732 masks_dr unique: tensor([-7.6302, -7.6117, -7.6097, ..., 11.7712, 11.7746, 11.7802],
           grad_fn=<Unique2Backward0>)
6733
6734 Epoch 25/499: 24%
                               39/160 [06:19<19:23, 9.61s/it]print dice: 0.5322339534759521
        print_iou: 0.3626149892807007
6735 masks_dr unique: tensor([-8.0045, -7.9994, -7.9846, ..., 12.2314, 12.2338, 12.2368],
           grad fn=<Unique2Backward0>)
6737 masks_dr unique: tensor([-8.0045, -7.9994, -7.9846, ..., 12.2314, 12.2338, 12.2368],
           grad_fn=<Unique2Backward0>)
6738
6739 Epoch 25/499: 25%
                               40/160 [06:28<19:13, 9.62s/it]print_dice: 0.5438846349716187
        print_iou: 0.37351757287979126
6740 masks_dr unique: tensor([-7.7390, -7.7315, -7.7114, ..., 11.6576, 11.6578, 11.6610],
           grad fn=<Unique2Backward0>)
6742 masks_dr unique: tensor([-7.7390, -7.7315, -7.7114, ..., 11.6576, 11.6578, 11.6610],
           grad_fn=<Unique2Backward0>)
6744 print_dice: 0.4678002893924713, print_iou: 0.3053128719329834
6745 Epoch 25/499: 26%
                              41/160 [06:38<19:00, 9.59s/it]masks dr unique: tensor([-7.
    7386, -7.7311, -7.7111, ..., 11.6573, 11.6575, 11.6607],
           grad_fn=<Unique2Backward0>)
6746
6747 masks_dr unique: tensor([-7.7386, -7.7311, -7.7111, ..., 11.6573, 11.6575, 11.6607],
           grad fn=<Unique2Backward0>)
6749 print_dice: 0.48493415117263794,
                                     print_iou: 0.3200746476650238
6750 Epoch 25/499: 26%
    8075, -7.8073, -7.7947, ..., 13.0439, 13.0450, 13.0455],
6751
           grad_fn=<Unique2Backward0>)
6752 masks_dr unique: tensor([-7.8075, -7.8073, -7.7947, ..., 13.0439, 13.0450, 13.0455],
           grad_fn=<Unique2Backward0>)
6753
6754 print_dice: 0.5630868077278137, print_iou: 0.3918725550174713
6755 Epoch 25/499: 27%
    5391, -7.5218, -7.5111, ..., 12.1824, 12.1871, 12.1890],
           grad fn=<Unique2Backward0>)
6756
6757 masks_dr unique: tensor([-7.5391, -7.5218, -7.5111, ..., 12.1824, 12.1871, 12.1890],
6758
           grad_fn=<Unique2Backward0>)
6759 Epoch 25/499: 28%
                               44/160 [07:07<18:42, 9.68s/it]print_dice: 0.5523630380630493
        print_iou: 0.38156184554100037
6760 masks_dr unique: tensor([-7.6860, -7.6727, -7.6650, ..., 11.9065, 11.9097, 11.9132],
6761
           grad_fn=<Unique2Backward0>)
6762 masks_dr unique: tensor([-7.6860, -7.6727, -7.6650, ..., 11.9065, 11.9097, 11.9132],
           grad fn=<Unique2Backward0>)
6763
6764 print_dice: 0.4945064187049866, print_iou: 0.32846799492836
6765 Epoch 25/499: 28%
    7414, -7.7338, -7.7135, ..., 11.6614, 11.6615, 11.6648],
           grad_fn=<Unique2Backward0>)
6766
6767 masks_dr unique: tensor([-7.7414, -7.7338, -7.7135, ..., 11.6614, 11.6615, 11.6648],
           grad_fn=<Unique2Backward0>)
6769 print_dice: 0.5253117084503174,
                                    print_iou: 0.3562188148498535
6770 Epoch 25/499: 29%
                               46/160 [07:26<18:21, 9.66s/it]masks_dr unique: tensor([-7.
    7417, -7.7342, -7.7140, ..., 11.6590, 11.6590, 11.6622],
           grad fn=<Unique2Backward0>)
6771
6772 masks dr unique: tensor([-7.7417, -7.7342, -7.7140, ..., 11.6590, 11.6590, 11.6622],
           grad_fn=<Unique2Backward0>)
6774 print_dice: 0.5685345530509949, print_iou: 0.3971696197986603
6775 Epoch 25/499: 29%|
                               | 47/160 [07:36<18:14, 9.69s/it]masks_dr unique: tensor([-7.
    9801, -7.9781, -7.9665, ..., 12.4743, 12.4747, 12.4753],
           grad_fn=<Unique2Backward0>)
6776
6777 masks_dr unique: tensor([-7.9801, -7.9781, -7.9665, ..., 12.4743, 12.4747, 12.4753],
           grad fn=<Unique2Backward0>)
6778
6779 Epoch 25/499: 30%
                                48/160 [07:46<18:10, 9.73s/it]print_dice: 0.5097240805625916
        print_iou: 0.34203335642814636
```

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6780 masks dr unique: tensor([-7.5672, -7.5653, -7.5651, ..., 12.7224, 12.7232, 12.7266],
           grad_fn=<Unique2Backward0>)
6782 masks dr unique: tensor([-7.5672, -7.5653, -7.5651, ..., 12.7224, 12.7232, 12.7266],
           grad fn=<Unique2Backward0>)
6783
6784 print dice: 0.479284405708313, print_iou: 0.3151703178882599
6785 Epoch 25/499: 31% 49/160 [07:56<17:59, 9.72s/it] masks_dr unique: tensor([-7.
    1753, -7.1571, -7.1450, ..., 11.6445, 11.6477, 11.6529],
6786
           grad_fn=<Unique2Backward0>)
6787 masks_dr unique: tensor([-7.1753, -7.1571, -7.1450, ..., 11.6445, 11.6477, 11.6529],
6788
           grad fn=<Unique2Backward0>)
6789 print_dice: 0.5616816878318787, print_iou: 0.3905127942562103
6790 Epoch 25/499: 31%| | 50/160 [08:05<17:42, 9.66s/it]masks_dr unique: tensor([-7.
    9304, -7.9209, -7.9126, ..., 12.8889, 12.8895, 12.8905],
           grad fn=<Unique2Backward0>)
6791
6792 masks_dr unique: tensor([-7.9304, -7.9209, -7.9126, ..., 12.8889, 12.8895, 12.8905],
           grad_fn=<Unique2Backward0>)
6794 Epoch 25/499: 32%
                                | 51/160 [08:15<17:33, 9.67s/it]print_dice: 0.6033414602279663
        print_iou: 0.43198922276496887
6795 masks_dr unique: tensor([-7.7443, -7.7365, -7.7161, ..., 11.6621, 11.6626, 11.6656],
           grad_fn=<Unique2Backward0>)
6797 masks_dr unique: tensor([-7.7443, -7.7365, -7.7161, ..., 11.6621, 11.6626, 11.6656],
           grad_fn=<Unique2Backward0>)
6799 print dice: 0.5551049113273621, print iou: 0.3841835558414459
6800 Epoch 25/499: 32% | 52/160 [08:24<17:20, 9.64s/it]masks_dr unique: tensor([-7.
    7425, -7.7347, -7.7142, ..., 11.6602, 11.6604, 11.6636],
           grad_fn=<Unique2Backward0>)
6801
6802 masks dr unique: tensor([-7.7425, -7.7347, -7.7142, ..., 11.6602, 11.6604, 11.6636],
           grad fn=<Unique2Backward0>)
6804 Epoch 25/499: 33%
                                 53/160 [08:34<17:08, 9.61s/it]print_dice: 0.5307514071464539
        print iou: 0.361240029335022
6805 masks_dr unique: tensor([-7.7437, -7.7359, -7.7153, ..., 11.6602, 11.6609, 11.6635],
           grad_fn=<Unique2Backward0>)
6807 masks dr unique: tensor([-7.7437, -7.7359, -7.7153, ..., 11.6602, 11.6609, 11.6635],
6808
           grad fn=<Unique2Backward0>)
6809 Epoch 25/499: 34%
                                 54/160 [08:43<16:54, 9.57s/it]print_dice: 0.5736474394798279
        print_iou: 0.4021779000759125
6810 masks_dr unique: tensor([-7.8379, -7.8357, -7.8215, ..., 13.1095, 13.1104, 13.1110],
           grad_fn=<Unique2Backward0>)
6812 masks_dr unique: tensor([-7.8379, -7.8357, -7.8215, ..., 13.1095, 13.1104, 13.1110],
           grad fn=<Unique2Backward0>)
6813
6814 print_dice: 0.5745073556900024, print_iou: 0.40302374958992004
6815 Epoch 25/499: 34% 55/160 [08:53<16:43, 9.56s/it]masks_dr unique: tensor([-7.
    4909, -7.4886, -7.4774, ..., 11.6050, 11.6097, 11.6153],
           grad_fn=<Unique2Backward0>)
6817 masks_dr unique: tensor([-7.4909, -7.4886, -7.4774, ..., 11.6050, 11.6097, 11.6153],
6818
           grad_fn=<Unique2Backward0>)
6819 print dice: 0.46926942467689514,
                                      print_iou: 0.30656567215919495
6820 Epoch 25/499: 35% 56/160 [09:03<16:38, 9.60s/it]masks_dr unique: tensor([-7.
    6435, -7.6306, -7.6265, ..., 11.9298, 11.9316, 11.9362],
6821
           grad_fn=<Unique2Backward0>)
6822 masks_dr unique: tensor([-7.6435, -7.6306, -7.6265, ..., 11.9298, 11.9316, 11.9362],
           grad fn=<Unique2Backward0>)
6823
                                 | 57/160 [09:12<16:30, 9.62s/it]print_dice: 0.5258904099464417
6824 Epoch 25/499: 36%
        print_iou: 0.3567512035369873
6825 masks_dr unique: tensor([-7.7449, -7.7370, -7.7164, ..., 11.6634, 11.6637, 11.6666],
6826
           grad_fn=<Unique2Backward0>)
6827 masks_dr unique: tensor([-7.7449, -7.7370, -7.7164, ..., 11.6634, 11.6637, 11.6666],
6828
           grad_fn=<Unique2Backward0>)
6829 Epoch 25/499: 36%
                                 | 58/160 [09:22<16:12, 9.54s/it]print_dice: 0.4522954225540161
        print_iou: 0.2922362983226776
6830 masks_dr unique: tensor([-7.7462, -7.7383, -7.7176, ..., 11.6593, 11.6595, 11.6627],
           grad fn=<Unique2Backward0>)
6831
6832 masks_dr unique: tensor([-7.7462, -7.7383, -7.7176, ..., 11.6593, 11.6595, 11.6627],
           grad_fn=<Unique2Backward0>)
6833
                                 | 59/160 [09:31<16:07, 9.58s/it]print dice: 0.5395071506500244
6834 Epoch 25/499: 37%
        print iou: 0.3694007396697998
6835 masks_dr unique: tensor([-7.4565, -7.4478, -7.4392, ..., 12.5489, 12.5505, 12.5506],
           grad_fn=<Unique2Backward0>)
6837 masks dr unique: tensor([-7.4565, -7.4478, -7.4392, ..., 12.5489, 12.5505, 12.5506],
```

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grad fn=<Unique2Backward0>)
                                 | 60/160 [09:41<15:59, 9.60s/it]print_dice: 0.510593593120575
6839 Epoch 25/499: 38%
        print iou: 0.3428167998790741
6840 masks_dr unique: tensor([-7.5891, -7.5840, -7.5753, ..., 12.0193, 12.0250, 12.0273],
           grad_fn=<Unique2Backward0>)
6842 masks_dr unique: tensor([-7.5891, -7.5840, -7.5753, ..., 12.0193, 12.0250, 12.0273],
           grad fn=<Unique2Backward0>)
6843
6844 print_dice: 0.4445147216320038, print_iou: 0.2857723832130432
6845 Epoch 25/499: 38%| 61/160 [09:51<15:54, 9.64s/it] masks_dr unique: tensor([-7.
    3680, -7.3661, -7.3643, ..., 12.3111, 12.3132, 12.3133],
           grad fn=<Unique2Backward0>)
6846
6847 masks_dr unique: tensor([-7.3680, -7.3661, -7.3643, ..., 12.3111, 12.3132, 12.3133],
           grad_fn=<Unique2Backward0>)
6848
                                 62/160 [10:00<15:43, 9.62s/it]print dice: 0.
6849 Epoch 25/499: 39%
    47528067231178284, print_iou: 0.31171682476997375
6850 masks_dr unique: tensor([-7.7296, -7.7276, -7.7151, ..., 13.1288, 13.1309, 13.1355],
6851
           grad fn=<Unique2Backward0>)
6852 masks_dr unique: tensor([-7.7296, -7.7276, -7.7151, ..., 13.1288, 13.1309, 13.1355],
6853
           grad_fn=<Unique2Backward0>)
6854 Epoch 25/499: 39%
                                63/160 [10:10<15:30, 9.59s/it]print_dice: 0.5525139570236206
        print_iou: 0.3817058801651001
6855 masks_dr unique: tensor([-7.7514, -7.7434, -7.7226, ..., 11.6608, 11.6609, 11.6642],
           grad fn=<Unique2Backward0>)
6857 masks_dr unique: tensor([-7.7514, -7.7434, -7.7226, ..., 11.6608, 11.6609, 11.6642],
           grad_fn=<Unique2Backward0>)
6859 Epoch 25/499: 40%
                                 64/160 [10:19<15:24, 9.63s/it]print_dice: 0.5693339705467224
        print iou: 0.39795029163360596
6860 masks_dr unique: tensor([-7.6983, -7.6964, -7.6830, ..., 13.0880, 13.0921, 13.0938],
           grad_fn=<Unique2Backward0>)
6862 masks_dr unique: tensor([-7.6983, -7.6964, -7.6830, ..., 13.0880, 13.0921, 13.0938],
           grad_fn=<Unique2Backward0>)
6864 Epoch 25/499: 41%
                                 65/160 [10:29<15:13, 9.61s/it]print_dice: 0.
    45665299892425537, print_iou: 0.2958848476409912
6865 masks_dr unique: tensor([-7.5904, -7.5763, -7.5627, ..., 11.7292, 11.7325, 11.7396],
6866
           grad_fn=<Unique2Backward0>)
6867 masks_dr unique: tensor([-7.5904, -7.5763, -7.5627, ..., 11.7292, 11.7325, 11.7396],
           grad fn=<Unique2Backward0>)
6868
6869 Epoch 25/499: 41%
                                 66/160 [10:39<15:04, 9.62s/it]print_dice: 0.5489839911460876
        print_iou: 0.3783445358276367
6870 masks_dr unique: tensor([-7.5788, -7.5701, -7.5613, ..., 12.4788, 12.4789, 12.4793],
           grad_fn=<Unique2Backward0>)
6871
6872 masks_dr unique: tensor([-7.5788, -7.5701, -7.5613, ..., 12.4788, 12.4789, 12.4793],
           grad_fn=<Unique2Backward0>)
6873
6874 Epoch 25/499: 42%
                                 67/160 [10:48<14:50, 9.58s/it]print_dice: 0.5501141548156738
        print_iou: 0.3794189691543579
6875 masks_dr unique: tensor([-7.6814, -7.6669, -7.6657, ..., 12.0283, 12.0307, 12.0341],
6876
           grad_fn=<Unique2Backward0>)
6877 masks_dr unique: tensor([-7.6814, -7.6669, -7.6657, ..., 12.0283, 12.0307, 12.0341],
           grad fn=<Unique2Backward0>)
6878
                                68/160 [10:58<14:42, 9.59s/it]print dice: 0.4249316155910492
6879 Epoch 25/499: 42%
        print_iou: 0.26978611946105957
6880 masks_dr unique: tensor([-7.7512, -7.7491, -7.7347, ..., 12.5126, 12.5173, 12.5186],
           grad_fn=<Unique2Backward0>)
6882 masks_dr unique: tensor([-7.7512, -7.7491, -7.7347, ..., 12.5126, 12.5173, 12.5186],
           grad_fn=<Unique2Backward0>)
6884 Epoch 25/499: 43%
                                 | 69/160 [11:07<14:32, 9.59s/it]print_dice: 0.5057014226913452
        print_iou: 0.338420569896698
6885 masks_dr unique: tensor([-7.7574, -7.7493, -7.7283, ..., 11.6652, 11.6677, 11.6682],
           grad fn=<Unique2Backward0>)
6887 masks_dr unique: tensor([-7.7574, -7.7493, -7.7283, ..., 11.6652, 11.6677, 11.6682],
           grad_fn=<Unique2Backward0>)
6888
                                 70/160 [11:17<14:23, 9.59s/it]print dice: 0.6196093559265137
6889 Epoch 25/499: 44%
        print_iou: 0.44886526465415955
6890 masks_dr unique: tensor([-7.7547, -7.7466, -7.7256, ..., 11.6658, 11.6661, 11.6692],
           grad_fn=<Unique2Backward0>)
6891
6892 masks_dr unique: tensor([-7.7547, -7.7466, -7.7256, ..., 11.6658, 11.6661, 11.6692],
6893
           grad fn=<Unique2Backward0>)
6894 print dice: 0.4756244421005249, print iou: 0.312012642621994
6895 Epoch 25/499: 44%
                                 71/160 [11:27<14:19, 9.66s/it]masks_dr unique: tensor([-8.
```

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6895 0442, -8.0280, -8.0272, ..., 13.0370, 13.0383, 13.0386],
           grad_fn=<Unique2Backward0>)
6897 masks_dr unique: tensor([-8.0442, -8.0280, -8.0272, ..., 13.0370, 13.0383, 13.0386],
6898
           grad fn=<Unique2Backward0>)
6899 print dice: 0.5813676118850708, print_iou: 0.40980851650238037
6900 Epoch 25/499: 45%| 72/160 [11:36<14:08, 9.65s/it]masks_dr unique: tensor([-7.
    6162, -7.6128, -7.5986, ..., 13.1648, 13.1676, 13.1706],
6901
           grad_fn=<Unique2Backward0>)
6902 masks_dr unique: tensor([-7.6162, -7.6128, -7.5986, ..., 13.1648, 13.1676, 13.1706],
6903
           grad fn=<Unique2Backward0>)
6904 print_dice: 0.5874500274658203, print_iou: 0.4158790707588196
6905 Epoch 25/499: 46% 73/160 [11:46<13:55, 9.60s/it]masks_dr unique: tensor([-7.
    7532, -7.7451, -7.7240, ..., 11.6722, 11.6755, 11.6787],
6906
           grad fn=<Unique2Backward0>)
6907 masks_dr unique: tensor([-7.7532, -7.7451, -7.7240, ..., 11.6722, 11.6755, 11.6787],
           grad_fn=<Unique2Backward0>)
6909 Epoch 25/499: 46%
                                74/160 [11:56<13:48, 9.63s/it]print dice: 0.
    48605021834373474, print_iou: 0.3210477828979492
6910 masks_dr unique: tensor([-7.7537, -7.7457, -7.7246, ..., 11.6702, 11.6734, 11.6766],
           grad_fn=<Unique2Backward0>)
6912 masks_dr unique: tensor([-7.7537, -7.7457, -7.7246, ..., 11.6702, 11.6734, 11.6766],
           grad_fn=<Unique2Backward0>)
6913
6914 Epoch 25/499: 47%
                                | 75/160 [12:05<13:39, 9.64s/it]print_dice: 0.5150120258331299
        print iou: 0.3468122184276581
6915 masks_dr unique: tensor([-7.6532, -7.6497, -7.6353, ..., 12.1447, 12.1475, 12.1499],
           grad fn=<Unique2Backward0>)
6916
6917 masks dr unique: tensor([-7.6532, -7.6497, -7.6353, ..., 12.1447, 12.1475, 12.1499],
6918
           grad fn=<Unique2Backward0>)
6919 print_dice: 0.5530380010604858, print_iou: 0.3822062909603119
6920 Epoch 25/499: 48%
    5676, -7.5501, -7.5455, ..., 11.7502, 11.7574, 11.7627],
6921
           grad_fn=<Unique2Backward0>)
6922 masks dr unique: tensor([-7.5676, -7.5501, -7.5455, ..., 11.7502, 11.7574, 11.7627],
6923
           grad fn=<Unique2Backward0>)
6924 Epoch 25/499: 48%
                                77/160 [12:24<13:13, 9.57s/it]print_dice: 0.4550516903400421
        print_iou: 0.29454171657562256
6925 masks_dr unique: tensor([-7.7539, -7.7458, -7.7246, ..., 11.6738, 11.6770, 11.6802],
           grad_fn=<Unique2Backward0>)
6927 masks_dr unique: tensor([-7.7539, -7.7458, -7.7246, ..., 11.6738, 11.6770, 11.6802],
           grad fn=<Unique2Backward0>)
6928
6929 Epoch 25/499: 49%
                                78/160 [12:34<13:09, 9.63s/it]print_dice: 0.5355051755905151
        print_iou: 0.3656586706638336
6930 masks_dr unique: tensor([-7.7576, -7.7495, -7.7282, ..., 11.6799, 11.6832, 11.6866],
           grad_fn=<Unique2Backward0>)
6932 masks_dr unique: tensor([-7.7576, -7.7495, -7.7282, ..., 11.6799, 11.6832, 11.6866],
           grad_fn=<Unique2Backward0>)
6934 print_dice: 0.6127886772155762, print_iou: 0.441741406917572
6935 Epoch 25/499: 49% 79/160 [12:44<13:04, 9.68s/it]masks_dr unique: tensor([-8.
    1011, -8.0913, -8.0830, ..., 12.1453, 12.1527, 12.1578],
6936
           grad_fn=<Unique2Backward0>)
6937 masks_dr unique: tensor([-8.1011, -8.0913, -8.0830, ..., 12.1453, 12.1527, 12.1578],
           grad fn=<Unique2Backward0>)
6938
                                80/160 [12:54<12:55, 9.69s/it]print_dice: 0.5879581570625305
6939 Epoch 25/499: 50%
        print_iou: 0.416388601064682
6940 masks_dr unique: tensor([-7.7545, -7.7464, -7.7253, ..., 11.6877, 11.6911, 11.6945],
6941
           grad_fn=<Unique2Backward0>)
6942 masks_dr unique: tensor([-7.7545, -7.7464, -7.7253, ..., 11.6877, 11.6911, 11.6945],
6943
           grad_fn=<Unique2Backward0>)
6944 Epoch 25/499: 51%
                                81/160 [13:03<12:40, 9.62s/it]print_dice: 0.5458268523216248
        print_iou: 0.37535205483436584
6945 masks dr unique: tensor([-7.7564, -7.7483, -7.7271, ..., 11.6869, 11.6905, 11.6940],
           grad fn=<Unique2Backward0>)
6947 masks_dr unique: tensor([-7.7564, -7.7483, -7.7271, ..., 11.6869, 11.6905, 11.6940],
           grad fn=<Unique2Backward0>)
6948
6949 print_dice: 0.4901188015937805, print_iou: 0.3246075212955475
6950 Epoch 25/499: 51%
                                82/160 [13:13<12:30, 9.62s/it]masks_dr unique: tensor([-7.
    5284, -7.5192, -7.5158, ..., 12.1155, 12.1179, 12.1204],
6951
           grad_fn=<Unique2Backward0>)
6952 masks_dr unique: tensor([-7.5284, -7.5192, -7.5158, ..., 12.1155, 12.1179, 12.1204],
```

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6953
           grad fn=<Unique2Backward0>)
6954 Epoch 25/499: 52%
                                 83/160 [13:22<12:22, 9.64s/it]print_dice: 0.5390464067459106
        print iou: 0.3689689040184021
6955 masks_dr unique: tensor([-7.5041, -7.4923, -7.4750, ..., 11.7149, 11.7216, 11.7268],
           grad_fn=<Unique2Backward0>)
6957 masks dr unique: tensor([-7.5041, -7.4923, -7.4750, ..., 11.7149, 11.7216, 11.7268],
           grad fn=<Unique2Backward0>)
6958
6959 Epoch 25/499: 52%
                                 84/160 [13:32<12:14, 9.67s/it]print_dice: 0.539782702922821
        print_iou: 0.3696591854095459
6960 masks_dr unique: tensor([-7.6318, -7.6317, -7.6247, ..., 12.3386, 12.3388, 12.3417],
           grad fn=<Unique2Backward0>)
6961
6962 masks_dr unique: tensor([-7.6318, -7.6317, -7.6247, ..., 12.3386, 12.3388, 12.3417],
           grad fn=<Unique2Backward0>)
6963
6964 print dice: 0.5540002584457397, print_iou: 0.3831261098384857
6965 Epoch 25/499: 53% | 85/160 [13:42<12:01, 9.63s/it]masks_dr unique: tensor([-7.
    2953, -7.2828, -7.2789, ..., 12.6996, 12.6997, 12.6997],
           grad fn=<Unique2Backward0>)
6966
6967 masks_dr unique: tensor([-7.2953, -7.2828, -7.2789, ..., 12.6996, 12.6997, 12.6997],
6968
           grad_fn=<Unique2Backward0>)
6969 Epoch 25/499: 54%
                                86/160 [13:51<11:50, 9.61s/it]print_dice: 0.5002867579460144
        print_iou: 0.33358827233314514
6970 masks_dr unique: tensor([-7.9432, -7.9317, -7.9241, ..., 13.0030, 13.0031, 13.0091],
6971
           grad fn=<Unique2Backward0>)
6972 masks_dr unique: tensor([-7.9432, -7.9317, -7.9241, ..., 13.0030, 13.0031, 13.0091],
           grad_fn=<Unique2Backward0>)
                                 87/160 [14:01<11:42, 9.63s/it]print dice: 0.5346029996871948
6974 Epoch 25/499: 54%
        print iou: 0.36481785774230957
6975 masks_dr unique: tensor([-7.8915, -7.8905, -7.8683, ..., 12.0075, 12.0078, 12.0102],
           grad_fn=<Unique2Backward0>)
6977 masks_dr unique: tensor([-7.8915, -7.8905, -7.8683, ..., 12.0075, 12.0078, 12.0102],
           grad_fn=<Unique2Backward0>)
                                | 88/160 [14:11<11:34, 9.65s/it]print_dice: 0.5989633202552795
6979 Epoch 25/499: 55%
        print_iou: 0.4275144040584564
6980 masks_dr unique: tensor([-7.4874, -7.4828, -7.4780, ..., 12.2352, 12.2390, 12.2403],
           grad fn=<Unique2Backward0>)
6982 masks_dr unique: tensor([-7.4874, -7.4828, -7.4780, ..., 12.2352, 12.2390, 12.2403],
           grad fn=<Unique2Backward0>)
6983
6984 print_dice: 0.44519367814064026, print_iou: 0.2863338589668274
6985 Epoch 25/499: 56%| | 89/160 [14:20<11:20, 9.59s/it]masks_dr unique: tensor([-7.
    3335, -7.3314, -7.3290, ..., 12.3767, 12.3776, 12.3781],
           grad_fn=<Unique2Backward0>)
6986
6987 masks_dr unique: tensor([-7.3335, -7.3314, -7.3290, ..., 12.3767, 12.3776, 12.3781],
6988
           grad_fn=<Unique2Backward0>)
6989 Epoch 25/499: 56%
                                 90/160 [14:30<11:12, 9.60s/it]print_dice: 0.5135705471038818
        print_iou: 0.3455061614513397
6990 masks_dr unique: tensor([-7.4315, -7.4196, -7.4158, ..., 11.6500, 11.6569, 11.6604],
           grad_fn=<Unique2Backward0>)
6991
6992 masks_dr unique: tensor([-7.4315, -7.4196, -7.4158, ..., 11.6500, 11.6569, 11.6604],
           grad fn=<Unique2Backward0>)
6993
                               91/160 [14:39<11:07, 9.68s/it]print dice: 0.4733114242553711
6994 Epoch 25/499: 57%
        print_iou: 0.31002485752105713
6995 masks_dr unique: tensor([-7.5356, -7.5256, -7.5234, ..., 12.5579, 12.5580, 12.5591],
           grad_fn=<Unique2Backward0>)
6997 masks_dr unique: tensor([-7.5356, -7.5256, -7.5234, ..., 12.5579, 12.5580, 12.5591],
           grad_fn=<Unique2Backward0>)
6999 print_dice: 0.4322631359100342,
                                     print_iou: 0.27572429180145264
7000 Epoch 25/499: 57% 92/160 [14:49<10:59, 9.70s/it]masks_dr unique: tensor([-7.
    7524, -7.7441, -7.7226, ..., 11.6909, 11.6945, 11.6980],
7001
           grad_fn=<Unique2Backward0>)
7002 masks_dr unique: tensor([-7.7524, -7.7441, -7.7226, ..., 11.6909, 11.6945, 11.6980],
7003
           grad_fn=<Unique2Backward0>)
7004 Epoch 25/499: 58%
                                 93/160 [14:59<10:47, 9.67s/it]print_dice: 0.5122687220573425
        print iou: 0.3443288207054138
7005 masks dr unique: tensor([-7.7493, -7.7410, -7.7195, ..., 11.6864, 11.6895, 11.6926],
           grad_fn=<Unique2Backward0>)
7007 masks_dr unique: tensor([-7.7493, -7.7410, -7.7195, ..., 11.6864, 11.6895, 11.6926],
           grad fn=<Unique2Backward0>)
7008
7009 Epoch 25/499: 59%
                                94/160 [15:08<10:36, 9.64s/it]print_dice: 0.5739763379096985
        print iou: 0.40250128507614136
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7010 masks dr unique: tensor([-7.7482, -7.7398, -7.7184, ..., 11.6832, 11.6863, 11.6895],
           grad_fn=<Unique2Backward0>)
7012 masks dr unique: tensor([-7.7482, -7.7398, -7.7184, ..., 11.6832, 11.6863, 11.6895],
           grad fn=<Unique2Backward0>)
7013
7014 Epoch 25/499: 59%
                                 95/160 [15:18<10:27, 9.65s/it]print_dice: 0.5421891808509827
        print_iou: 0.3719201385974884
7015 masks_dr unique: tensor([-7.7496, -7.7411, -7.7195, ..., 11.6861, 11.6893, 11.6924],
           grad_fn=<Unique2Backward0>)
7017 masks_dr unique: tensor([-7.7496, -7.7411, -7.7195, ..., 11.6861, 11.6893, 11.6924],
           grad fn=<Unique2Backward0>)
7018
7019 Epoch 25/499: 60%
                                 96/160 [15:28<10:19, 9.68s/it]print dice: 0.6230208277702332
        print_iou: 0.4524548351764679
7020 masks_dr unique: tensor([-7.7498, -7.7414, -7.7197, ..., 11.6912, 11.6945, 11.6978],
           grad fn=<Unique2Backward0>)
7021
7022 masks dr unique: tensor([-7.7498, -7.7414, -7.7197, ..., 11.6912, 11.6945, 11.6978],
7023
           grad_fn=<Unique2Backward0>)
7024 print dice: 0.5664671063423157, print_iou: 0.39515459537506104
7025 Epoch 25/499: 61%| 97/160 [15:37<10:07, 9.65s/it]masks_dr unique: tensor([-7.
    7484, -7.7399, -7.7183, ..., 11.6879, 11.6911, 11.6944],
7026
           grad_fn=<Unique2Backward0>)
7027 masks_dr unique: tensor([-7.7484, -7.7399, -7.7183, ..., 11.6879, 11.6911, 11.6944],
           grad_fn=<Unique2Backward0>)
7029 print dice: 0.5041691660881042, print iou: 0.33704960346221924
7030 Epoch 25/499: 61%| | 98/160 [15:47<09:56, 9.61s/it]masks_dr unique: tensor([-7.
    7485, -7.7400, -7.7183, ..., 11.6888, 11.6919, 11.6950],
           grad fn=<Unique2Backward0>)
7031
7032 masks dr unique: tensor([-7.7485, -7.7400, -7.7183, ..., 11.6888, 11.6919, 11.6950],
7033
           grad fn=<Unique2Backward0>)
7034 Epoch 25/499: 62%
                                 99/160 [15:57<09:46, 9.61s/it]print_dice: 0.5535367727279663
        print iou: 0.3826829493045807
7035 masks_dr unique: tensor([-7.7758, -7.7669, -7.7485, ..., 11.5432, 11.5452, 11.5460],
7036
           grad_fn=<Unique2Backward0>)
7037 masks_dr unique: tensor([-7.7758, -7.7669, -7.7485, ..., 11.5432, 11.5452, 11.5460],
7038
           grad_fn=<Unique2Backward0>)
7039 print_dice: 0.48664599657058716, print_iou: 0.3215678632259369
7040 Epoch 25/499: 62% | 100/160 [16:06<09:36, 9.61s/it]masks_dr unique: tensor([-7.
    7482, -7.7396, -7.7179, ..., 11.6928, 11.6960, 11.6991],
7041
           grad_fn=<Unique2Backward0>)
7042 masks_dr unique: tensor([-7.7482, -7.7396, -7.7179, ..., 11.6928, 11.6960, 11.6991],
           grad fn=<Unique2Backward0>)
7043
                                     print_iou: 0.4163692593574524
7044 print dice: 0.5879388451576233,
7045
      [100/160] eta: 0:09:39 time: 9.6402 data: 0.0005
7046 Epoch 25/499: 63%| | 101/160 [16:16<09:28, 9.64s/it]masks_dr unique: tensor([-7.
    5593, -7.5593, -7.5488, ..., 12.5358, 12.5360, 12.5364],
7047
           grad_fn=<Unique2Backward0>)
7048 masks_dr unique: tensor([-7.5593, -7.5593, -7.5488, ..., 12.5358, 12.5360, 12.5364],
           grad_fn=<Unique2Backward0>)
7050 print_dice: 0.5845915675163269, print_iou: 0.41301968693733215
7051 Epoch 25/499: 64%| 102/160 [16:25<09:19, 9.64s/it]masks_dr unique: tensor([-7.
    7461, -7.7375, -7.7157, ..., 11.6874, 11.6905, 11.6936],
7052
           grad_fn=<Unique2Backward0>)
7053 masks dr unique: tensor([-7.7461, -7.7375, -7.7157, ..., 11.6874, 11.6905, 11.6936],
7054
           grad fn=<Unique2Backward0>)
7055 Epoch 25/499: 64%| 103/160 [16:35<09:09, 9.65s/it]print_dice: 0.
    5255509614944458, print_iou: 0.35643887519836426
7056 masks_dr unique: tensor([-8.0233, -8.0114, -8.0064, ..., 12.8823, 12.8825, 12.8838],
           grad_fn=<Unique2Backward0>)
7057
7058 masks_dr unique: tensor([-8.0233, -8.0114, -8.0064, ..., 12.8823, 12.8825, 12.8838],
           grad_fn=<Unique2Backward0>)
                                 | 104/160 [16:45<08:58, 9.62s/it]print_dice: 0.
7060 Epoch 25/499: 65%
    5535609722137451, print_iou: 0.38270604610443115
7061 masks dr unique: tensor([-7.7456, -7.7369, -7.7151, ..., 11.6905, 11.6937, 11.6969],
           grad fn=<Unique2Backward0>)
7062
7063 masks dr unique: tensor([-7.7456, -7.7369, -7.7151, ..., 11.6905, 11.6937, 11.6969],
7064
           grad_fn=<Unique2Backward0>)
7065 print dice: 0.528303325176239,
                                    print iou: 0.35897567868232727
7066 Epoch 25/499: 66%
                                 | 105/160 [16:54<08:48, 9.62s/it]masks_dr unique: tensor([-7.
    7448, -7.7362, -7.7144, ..., 11.6916, 11.6946, 11.6975],
7067
           grad fn=<Unique2Backward0>)
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7068 masks dr unique: tensor([-7.7448, -7.7362, -7.7144, ..., 11.6916, 11.6946, 11.6975],
           grad fn=<Unique2Backward0>)
7070 Epoch 25/499: 66%
                              | 106/160 [17:04<08:36, 9.56s/it]print dice: 0.
    5718518495559692,
                      print_iou: 0.40041491389274597
7071 masks_dr unique: tensor([-7.6753, -7.6666, -7.6591, ..., 11.9757, 11.9789, 11.9813],
7072
           grad_fn=<Unique2Backward0>)
7073 masks_dr unique: tensor([-7.6753, -7.6666, -7.6591, ..., 11.9757, 11.9789, 11.9813],
7074
           grad_fn=<Unique2Backward0>)
7075 print_dice: 0.5190558433532715, print_iou: 0.3504898250102997
7076 Epoch 25/499: 67%| | 107/160 [17:13<08:24, 9.52s/it]masks_dr unique: tensor([-7.
    8628, -7.8407, -7.8399, ..., 12.4791, 12.4851, 12.4904],
7077
           grad_fn=<Unique2Backward0>)
7078 masks_dr unique: tensor([-7.8628, -7.8407, -7.8399, ..., 12.4791, 12.4851, 12.4904],
           grad fn=<Unique2Backward0>)
7080 print dice: 0.5158776640892029, print_iou: 0.34759780764579773
4827, -7.4769, -7.4667, ..., 11.7637, 11.7661, 11.7705],
7082
           grad_fn=<Unique2Backward0>)
7083 masks_dr unique: tensor([-7.4827, -7.4769, -7.4667, ..., 11.7637, 11.7661, 11.7705],
           grad fn=<Unique2Backward0>)
7085 print_dice: 0.514989972114563, print_iou: 0.3467922508716583
7086 Epoch 25/499: 68%| 109/160 [17:32<08:06, 9.54s/it]masks_dr unique: tensor([-7.
    8527, -7.8372, -7.8365, ..., 13.0008, 13.0015, 13.0030],
7087
           grad fn=<Unique2Backward0>)
7088 masks_dr unique: tensor([-7.8527, -7.8372, -7.8365, ..., 13.0008, 13.0015, 13.0030],
7089
           grad_fn=<Unique2Backward0>)
7090 print dice: 0.504295825958252, print iou: 0.3371628224849701
7091 Epoch 25/499: 69%| | 110/160 [17:42<08:00, 9.61s/it]masks_dr unique: tensor([-7.
    9163, -7.9104, -7.9053, ..., 12.8854, 12.8856, 12.8857],
7092
           grad fn=<Unique2Backward0>)
7093 masks dr unique: tensor([-7.9163, -7.9104, -7.9053, ..., 12.8854, 12.8856, 12.8857],
7094
           grad_fn=<Unique2Backward0>)
7095 print dice: 0.438932329416275, print iou: 0.2811744213104248
7096 Epoch 25/499: 69% | 111/160 [17:52<07:53, 9.65s/it]masks dr unique: tensor([-7.
    7317, -7.7233, -7.7020, ..., 11.7003, 11.7038, 11.7072],
7097
           grad_fn=<Unique2Backward0>)
7098 masks_dr unique: tensor([-7.7317, -7.7233, -7.7020, ..., 11.7003, 11.7038, 11.7072],
           grad_fn=<Unique2Backward0>)
7100 print_dice: 0.5641548037528992, print_iou: 0.3929077982902527
7101 Epoch 25/499: 70%| | 112/160 [18:01<07:40, 9.59s/it]masks_dr unique: tensor([-7.
    6455, -7.6182, -7.6157, ..., 11.7261, 11.7340, 11.7348],
7102
           grad_fn=<Unique2Backward0>)
7103 masks_dr unique: tensor([-7.6455, -7.6182, -7.6157, ..., 11.7261, 11.7340, 11.7348],
           grad fn=<Unique2Backward0>)
7105 print_dice: 0.48677247762680054,
                                    print_iou: 0.3216783106327057
7106 Epoch 25/499: 71%| | 113/160 [18:11<07:28, 9.55s/it]masks_dr unique: tensor([-7.
    9159, -7.9024, -7.8942, ..., 12.0965, 12.1036, 12.1070],
           grad_fn=<Unique2Backward0>)
7107
7108 masks dr unique: tensor([-7.9159, -7.9024, -7.8942, ..., 12.0965, 12.1036, 12.1070],
           grad_fn=<Unique2Backward0>)
7110 Epoch 25/499: 71%| | 114/160 [18:20<07:19, 9.55s/it]print_dice: 0.481106162071228
        print_iou: 0.3167477250099182
7111 masks_dr unique: tensor([-7.6812, -7.6786, -7.6749, ..., 11.9516, 11.9576, 11.9626],
           grad_fn=<Unique2Backward0>)
7112
7113 masks_dr unique: tensor([-7.6812, -7.6786, -7.6749, ..., 11.9516, 11.9576, 11.9626],
7114
           grad_fn=<Unique2Backward0>)
7115 print dice: 0.5111314058303833, print iou: 0.343301922082901
7116 Epoch 25/499: 72%
                        115/160 [18:30<07:11, 9.59s/it]masks_dr unique: tensor([-7.
    7274, -7.7191, -7.6979, ..., 11.7005, 11.7038, 11.7070],
           grad fn=<Unique2Backward0>)
7117
7118 masks_dr unique: tensor([-7.7274, -7.7191, -7.6979, ..., 11.7005, 11.7038, 11.7070],
           grad fn=<Unique2Backward0>)
7119
7120 Epoch 25/499: 72%
                               | 116/160 [18:39<07:01, 9.58s/it]print_dice: 0.
    6388663649559021,
                     print_iou: 0.46936342120170593
7121 masks_dr unique: tensor([-7.7242, -7.7159, -7.6947, ..., 11.6991, 11.7025, 11.7059],
           grad fn=<Unique2Backward0>)
7122
7123 masks_dr unique: tensor([-7.7242, -7.7159, -7.6947, ..., 11.6991, 11.7025, 11.7059],
           grad_fn=<Unique2Backward0>)
7124
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7125 4818723797798157, print iou: 0.31741228699684143
7126 masks_dr unique: tensor([-7.7234, -7.7152, -7.6940, ..., 11.7035, 11.7070, 11.7104],
           grad fn=<Unique2Backward0>)
7128 masks_dr unique: tensor([-7.7234, -7.7152, -7.6940, ..., 11.7035, 11.7070, 11.7104],
           grad_fn=<Unique2Backward0>)
7130 print_dice: 0.595024049282074, print_iou: 0.42351195216178894
7131 Epoch 25/499: 74%| 74%| | 118/160 [18:58<06:40, 9.54s/it]masks_dr unique: tensor([-7.
    7236, -7.7154, -7.6942, ..., 11.7028, 11.7062, 11.7097],
7132
           grad_fn=<Unique2Backward0>)
7133 masks_dr unique: tensor([-7.7236, -7.7154, -7.6942, ..., 11.7028, 11.7062, 11.7097],
           grad fn=<Unique2Backward0>)
7134
7135 Epoch 25/499: 74\%
    5295165181159973, print_iou: 0.36009687185287476
7136 masks_dr unique: tensor([-7.5078, -7.5007, -7.4825, ..., 12.0180, 12.0194, 12.0216],
           grad fn=<Unique2Backward0>)
7137
7138 masks_dr unique: tensor([-7.5078, -7.5007, -7.4825, ..., 12.0180, 12.0194, 12.0216],
           grad_fn=<Unique2Backward0>)
7140 Epoch 25/499: 75%|
                               | 120/160 [19:18<06:23, 9.59s/it]print_dice: 0.
    5133805871009827, print_iou: 0.3453342616558075
7141 masks_dr unique: tensor([-7.6357, -7.6092, -7.6086, ..., 11.8533, 11.8551, 11.8570],
           grad_fn=<Unique2Backward0>)
7142
7143 masks_dr unique: tensor([-7.6357, -7.6092, -7.6086, ..., 11.8533, 11.8551, 11.8570],
7144
           grad fn=<Unique2Backward0>)
7145 print_dice: 0.6008417010307312, print_iou: 0.4294308125972748
7146 Epoch 25/499: 76%| | 121/160 [19:27<06:15, 9.62s/it]masks_dr unique: tensor([-7.
    5612, -7.5598, -7.5596, ..., 13.1359, 13.1364, 13.1404],
7147
           grad fn=<Unique2Backward0>)
7148 masks_dr unique: tensor([-7.5612, -7.5598, -7.5596, ..., 13.1359, 13.1364, 13.1404],
           grad_fn=<Unique2Backward0>)
7149
7150 Epoch 25/499: 76% | 122/160 [19:37<06:05, 9.61s/it]print_dice: 0.
    5503734946250916, print iou: 0.379665732383728
7151 masks_dr unique: tensor([-7.7226, -7.7146, -7.6937, ..., 11.7057, 11.7091, 11.7128],
           grad fn=<Unique2Backward0>)
7153 masks_dr unique: tensor([-7.7226, -7.7146, -7.6937, ..., 11.7057, 11.7091, 11.7128],
7154
           grad_fn=<Unique2Backward0>)
7155 Epoch 25/499: 77% | 123/160 [19:46<05:53, 9.56s/it]print_dice: 0.
    5128132104873657, print_iou: 0.3448209762573242
7156 masks dr unique: tensor([-7.6773, -7.6726, -7.6586, ..., 12.9075, 12.9079, 12.9120],
           grad_fn=<Unique2Backward0>)
7157
7158 masks_dr unique: tensor([-7.6773, -7.6726, -7.6586, ..., 12.9075, 12.9079, 12.9120],
7159
           grad fn=<Unique2Backward0>)
7160 Epoch 25/499: 78%| 78% | 124/160 [19:56<05:44, 9.58s/it]print_dice: 0.535152792930603
        print_iou: 0.3653301000595093
7161 masks_dr unique: tensor([-7.7207, -7.7127, -7.6919, ..., 11.7073, 11.7106, 11.7139],
7162
           grad_fn=<Unique2Backward0>)
7163 masks_dr unique: tensor([-7.7207, -7.7127, -7.6919, ..., 11.7073, 11.7106, 11.7139],
           grad_fn=<Unique2Backward0>)
7165 Epoch 25/499: 78% | 125/160 [20:06<05:35, 9.60s/it]print_dice: 0.
    5519904494285583, print_iou: 0.38120633363723755
7166 masks_dr unique: tensor([-8.0467, -8.0438, -8.0427, ..., 13.1540, 13.1569, 13.1574],
7167
           grad_fn=<Unique2Backward0>)
7168 masks dr unique: tensor([-8.0467, -8.0438, -8.0427, ..., 13.1540, 13.1569, 13.1574],
7169
           grad_fn=<Unique2Backward0>)
7170 Epoch 25/499: 79\%
    5520303249359131, print_iou: 0.381244421005249
7171 masks_dr unique: tensor([-7.5087, -7.4998, -7.4886, ..., 11.7808, 11.7857, 11.7903],
           grad_fn=<Unique2Backward0>)
7172
7173 masks_dr unique: tensor([-7.5087, -7.4998, -7.4886, ..., 11.7808, 11.7857, 11.7903],
           grad_fn=<Unique2Backward0>)
7175 print_dice: 0.497065931558609,
                                    print_iou: 0.3307303488254547
7176 Epoch 25/499: 79%| 79%| 127/160 [20:25<05:16, 9.61s/it]masks dr unique: tensor([-7.
    7166, -7.7087, -7.6882, ..., 11.7031, 11.7061, 11.7091],
7177
           grad_fn=<Unique2Backward0>)
7178 masks_dr unique: tensor([-7.7166, -7.7087, -7.6882, ..., 11.7031, 11.7061, 11.7091],
7179
           grad_fn=<Unique2Backward0>)
7180 print dice: 0.4985099732875824,
                                     print iou: 0.3320101797580719
7181 Epoch 25/499: 80%
                        | 128/160 [20:35<05:08, 9.65s/it]masks dr unique: tensor([-7.
    5384, -7.5332, -7.5214, ..., 13.0926, 13.0938, 13.0982],
7182
           grad fn=<Unique2Backward0>)
```

```
7183 masks_dr unique: tensor([-7.5384, -7.5332, -7.5214, ..., 13.0926, 13.0938, 13.0982],
           grad fn=<Unique2Backward0>)
7185 Epoch 25/499: 81\%
    5505670309066772,
                      print_iou: 0.37984997034072876
7186 masks_dr unique: tensor([-7.3906, -7.3876, -7.3747, ..., 12.5863, 12.5869, 12.5902],
           grad fn=<Unique2Backward0>)
7188 masks_dr unique: tensor([-7.3906, -7.3876, -7.3747, ..., 12.5863, 12.5869, 12.5902],
           grad_fn=<Unique2Backward0>)
7189
7190 Epoch 25/499: 81% | | 130/160 [20:54<04:49, 9.67s/it]print_dice: 0.
    47879526019096375, print_iou: 0.3147474229335785
7191 masks dr unique: tensor([-7.7938, -7.7833, -7.7759, ..., 12.3589, 12.3599, 12.3648],
           grad fn=<Unique2Backward0>)
7192
7193 masks_dr unique: tensor([-7.7938, -7.7833, -7.7759, ..., 12.3589, 12.3599, 12.3648],
           grad fn=<Unique2Backward0>)
7195 Epoch 25/499: 82%| | 131/160 [21:03<04:38, 9.60s/it]print_dice: 0.
    4652378261089325, print_iou: 0.303133487701416
7196 masks_dr unique: tensor([-7.3488, -7.3347, -7.3317, ..., 12.2818, 12.2891, 12.2938],
           grad_fn=<Unique2Backward0>)
7198 masks_dr unique: tensor([-7.3488, -7.3347, -7.3317, ..., 12.2818, 12.2891, 12.2938],
           grad_fn=<Unique2Backward0>)
7200 Epoch 25/499: 82%| | 132/160 [21:13<04:29, 9.63s/it]print_dice: 0.
    5102963447570801, print_iou: 0.3425489068031311
7201 masks_dr unique: tensor([-7.7622, -7.7545, -7.7513, ..., 13.0926, 13.0929, 13.0979],
7202
           grad fn=<Unique2Backward0>)
7203 masks_dr unique: tensor([-7.7622, -7.7545, -7.7513, ..., 13.0926, 13.0929, 13.0979],
           grad fn=<Unique2Backward0>)
7204
7205 print dice: 0.4360407590866089, print iou: 0.2788057029247284
7206 Epoch 25/499: 83%| | 133/160 [21:23<04:19, 9.61s/it]masks_dr unique: tensor([-7.
    8405, -7.8355, -7.8208, ..., 11.7129, 11.7190, 11.7216],
7207
           grad fn=<Unique2Backward0>)
7208 masks_dr unique: tensor([-7.8405, -7.8355, -7.8208, ..., 11.7129, 11.7190, 11.7216],
           grad fn=<Unique2Backward0>)
7209
7210 Epoch 25/499: 84%| | 134/160 [21:32<04:10, 9.62s/it]print_dice: 0.
    5083261132240295, print_iou: 0.34077563881874084
7211 masks dr unique: tensor([-7.9510, -7.9360, -7.9210, ..., 11.8907, 11.8971, 11.9011],
7212
           grad_fn=<Unique2Backward0>)
7213 masks_dr unique: tensor([-7.9510, -7.9360, -7.9210, ..., 11.8907, 11.8971, 11.9011],
7214
           grad_fn=<Unique2Backward0>)
7215 print_dice: 0.4983755946159363, print_iou: 0.3318909704685211
7216 Epoch 25/499: 84%| | 135/160 [21:42<03:59, 9.57s/it]masks_dr unique: tensor([-7.
    7174, -7.7097, -7.6895, ..., 11.7065, 11.7097, 11.7129],
7217
           grad_fn=<Unique2Backward0>)
7218 masks_dr unique: tensor([-7.7174, -7.7097, -7.6895, ..., 11.7065, 11.7097, 11.7129],
           grad_fn=<Unique2Backward0>)
7220 print_dice: 0.5365790724754333, print_iou: 0.3666607737541199
7185, -7.7108, -7.6906, ..., 11.7071, 11.7102, 11.7133],
7222
           grad_fn=<Unique2Backward0>)
7223 masks_dr unique: tensor([-7.7185, -7.7108, -7.6906, ..., 11.7071, 11.7102, 11.7133],
           grad_fn=<Unique2Backward0>)
7225 Epoch 25/499: 86% | 137/160 [22:01<03:39, 9.55s/it]print_dice: 0.
    5854114890098572, print_iou: 0.4138387143611908
7226 masks_dr unique: tensor([-7.1265, -7.1204, -7.1187, ..., 11.7577, 11.7634, 11.7699],
           grad_fn=<Unique2Backward0>)
7227
7228 masks_dr unique: tensor([-7.1265, -7.1204, -7.1187, ..., 11.7577, 11.7634, 11.7699],
7229
           grad_fn=<Unique2Backward0>)
7230 print_dice: 0.5875809192657471, print_iou: 0.4160103499889374
                       | | 138/160 [22:11<03:31, 9.61s/it]masks_dr unique: tensor([-7.
7231 Epoch 25/499: 86%
    3813, -7.3578, -7.3496, ..., 11.6722, 11.6735, 11.6761],
           grad fn=<Unique2Backward0>)
7232
7233 masks_dr unique: tensor([-7.3813, -7.3578, -7.3496, ..., 11.6722, 11.6735, 11.6761],
           grad_fn=<Unique2Backward0>)
7234
7235 Epoch 25/499: 87% | 139/160 [22:20<03:21, 9.61s/it]print_dice: 0.
    5307435393333435, print_iou: 0.3612327575683594
7236 masks_dr unique: tensor([-7.7193, -7.7117, -7.6915, ..., 11.7025, 11.7055, 11.7085],
           grad fn=<Unique2Backward0>)
7237
7238 masks_dr unique: tensor([-7.7193, -7.7117, -7.6915, ..., 11.7025, 11.7055, 11.7085],
           grad fn=<Unique2Backward0>)
7239
7240 Epoch 25/499: 88%| | | 140/160 [22:30<03:12, 9.64s/it]print_dice: 0.
```

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7240 5096155405044556,
                       print iou: 0.3419356346130371
7241 masks_dr unique: tensor([-7.7201, -7.7125, -7.6924, ..., 11.6995, 11.7023, 11.7050],
           grad fn=<Unique2Backward0>)
7243 masks_dr unique: tensor([-7.7201, -7.7125, -7.6924, ..., 11.6995, 11.7023, 11.7050],
           grad_fn=<Unique2Backward0>)
7245 Epoch 25/499: 88% | 141/160 [22:39<03:02, 9.59s/it]print_dice: 0.
    5007038712501526,
                      print_iou: 0.33395928144454956
7246 masks dr unique: tensor([-7.6790, -7.6563, -7.6515, ..., 12.2571, 12.2610, 12.2684],
           grad_fn=<Unique2Backward0>)
7248 masks_dr unique: tensor([-7.6790, -7.6563, -7.6515, ..., 12.2571, 12.2610, 12.2684],
           grad_fn=<Unique2Backward0>)
7249
7250 print_dice: 0.5779625177383423, print_iou: 0.4064326882362366
7251 Epoch 25/499: 89%| | | 142/160 [22:49<02:52, 9.60s/it]masks_dr unique: tensor([-7.
    6910, -7.6761, -7.6700, ..., 12.5136, 12.5151, 12.5192],
7252
           grad_fn=<Unique2Backward0>)
7253 masks_dr unique: tensor([-7.6910, -7.6761, -7.6700, ..., 12.5136, 12.5151, 12.5192],
           grad fn=<Unique2Backward0>)
7255 print_dice: 0.5556740164756775, print_iou: 0.38472890853881836
7074, -7.7003, -7.6905, ..., 11.9270, 11.9282, 11.9317],
7257
           grad_fn=<Unique2Backward0>)
7258 masks_dr unique: tensor([-7.7074, -7.7003, -7.6905, ..., 11.9270, 11.9282, 11.9317],
7259
           grad_fn=<Unique2Backward0>)
7260 Epoch 25/499: 90%| | 144/160 [23:08<02:32, 9.55s/it]print_dice: 0.
    5427582859992981, print_iou: 0.372455894947052
7261 masks_dr unique: tensor([-7.5336, -7.5244, -7.5186, ..., 13.0066, 13.0081, 13.0084],
           grad fn=<Unique2Backward0>)
7262
7263 masks_dr unique: tensor([-7.5336, -7.5244, -7.5186, ..., 13.0066, 13.0081, 13.0084],
7264
           grad_fn=<Unique2Backward0>)
7265 print dice: 0.41558703780174255, print iou: 0.2622971832752228
7266 Epoch 25/499: 91%| | 145/160 [23:18<02:22, 9.53s/it]masks_dr unique: tensor([-7.
    5967, -7.5860, -7.5747, ..., 11.9241, 11.9242, 11.9267],
7267
           grad_fn=<Unique2Backward0>)
7268 masks_dr unique: tensor([-7.5967, -7.5860, -7.5747, ..., 11.9241, 11.9242, 11.9267],
7269
           grad fn=<Unique2Backward0>)
7270 print_dice: 0.5376647710800171, print_iou: 0.3676754832267761
7271 Epoch 25/499: 91%| | 146/160 [23:27<02:13, 9.53s/it]masks_dr unique: tensor([-7.
    7272, -7.7197, -7.6998, ..., 11.7044, 11.7073, 11.7102],
7272
           grad_fn=<Unique2Backward0>)
7273 masks_dr unique: tensor([-7.7272, -7.7197, -7.6998, ..., 11.7044, 11.7073, 11.7102],
           grad fn=<Unique2Backward0>)
7274
7275 Epoch 25/499: 92%| | 147/160 [23:37<02:04, 9.59s/it]print_dice: 0.
    5852894186973572, print_iou: 0.41371670365333557
7276 masks_dr unique: tensor([-7.7980, -7.7714, -7.7659, ..., 11.6986, 11.7068, 11.7105],
7277
           grad_fn=<Unique2Backward0>)
7278 masks_dr unique: tensor([-7.7980, -7.7714, -7.7659, ..., 11.6986, 11.7068, 11.7105],
           grad_fn=<Unique2Backward0>)
7280 Epoch 25/499: 92%| | 148/160 [23:46<01:54, 9.58s/it]print_dice: 0.
    4688653349876404, print iou: 0.3062208294868469
7281 masks_dr unique: tensor([-7.5963, -7.5839, -7.5739, ..., 12.2231, 12.2310, 12.2352],
7282
           grad_fn=<Unique2Backward0>)
7283 masks_dr unique: tensor([-7.5963, -7.5839, -7.5739, ..., 12.2231, 12.2310, 12.2352],
           grad fn=<Unique2Backward0>)
7284
7285 Epoch 25/499: 93%| | 149/160 [23:56<01:44, 9.53s/it]print_dice: 0.
    5296168327331543, print_iou: 0.36018964648246765
7286 masks_dr unique: tensor([-7.8926, -7.8764, -7.8756, ..., 12.1115, 12.1161, 12.1200],
           grad_fn=<Unique2Backward0>)
7287
7288 masks_dr unique: tensor([-7.8926, -7.8764, -7.8756, ..., 12.1115, 12.1161, 12.1200],
           grad_fn=<Unique2Backward0>)
7290 print dice: 0.4927568733692169,
                                     print_iou: 0.32692593336105347
7291 Epoch 25/499: 94%| 94%| 150/160 [24:05<01:35, 9.51s/it]masks dr unique: tensor([-7.
    7314, -7.7239, -7.7039, ..., 11.7031, 11.7058, 11.7085],
7292
           grad_fn=<Unique2Backward0>)
7293 masks_dr unique: tensor([-7.7314, -7.7239, -7.7039, ..., 11.7031, 11.7058, 11.7085],
7294
           grad fn=<Unique2Backward0>)
                               ■ | 151/160 [24:15<01:25, 9.53s/it]print_dice: 0.</p>
7295 Epoch 25/499: 94%
                       print_iou: 0.34486502408981323
    5128619074821472,
7296 masks_dr unique: tensor([-7.9618, -7.9503, -7.9359, ..., 11.9180, 11.9247, 11.9286],
           grad fn=<Unique2Backward0>)
7297
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7298 masks dr unique: tensor([-7.9618, -7.9503, -7.9359, ..., 11.9180, 11.9247, 11.9286],
          grad fn=<Unique2Backward0>)
7300 Epoch 25/499: 95% | 152/160 [24:24<01:16, 9.57s/it]print dice: 0.
    5873435139656067,
                   print_iou: 0.41577234864234924
7301 masks_dr unique: tensor([-7.2433, -7.2365, -7.2358, ..., 11.9143, 11.9200, 11.9240],
          grad_fn=<Unique2Backward0>)
7303 masks dr unique: tensor([-7.2433, -7.2365, -7.2358, ..., 11.9143, 11.9200, 11.9240],
7304
          grad_fn=<Unique2Backward0>)
7305 print_dice: 0.5949742197990417, print_iou: 0.4234614372253418
7335, -7.7260, -7.7059, ..., 11.6969, 11.6972, 11.7001],
          grad fn=<Unique2Backward0>)
7307
7308 masks_dr unique: tensor([-7.7335, -7.7260, -7.7059, ..., 11.6969, 11.6972, 11.7001],
          grad fn=<Unique2Backward0>)
7310 print dice: 0.47764676809310913,
                                 print_iou: 0.3137555420398712
7352, -7.7277, -7.7077, ..., 11.6964, 11.6967, 11.6997],
7312
          grad_fn=<Unique2Backward0>)
7313 masks_dr unique: tensor([-7.7352, -7.7277, -7.7077, ..., 11.6964, 11.6967, 11.6997],
          grad_fn=<Unique2Backward0>)
7315 print_dice: 0.5404540300369263, print_iou: 0.3702891767024994
8030, -7.7957, -7.7784, ..., 13.2978, 13.2994, 13.3018],
7317
          grad_fn=<Unique2Backward0>)
7318 masks dr unique: tensor([-7.8030, -7.7957, -7.7784, ..., 13.2978, 13.2994, 13.3018],
7319
          grad_fn=<Unique2Backward0>)
5943225622177124, print_iou: 0.42280149459838867
7321 masks_dr unique: tensor([-7.5027, -7.4990, -7.4982, ..., 11.4246, 11.4274, 11.4289],
7322
          grad fn=<Unique2Backward0>)
7323 masks_dr unique: tensor([-7.5027, -7.4990, -7.4982, ..., 11.4246, 11.4274, 11.4289],
          grad fn=<Unique2Backward0>)
7324
5624402165412903, print_iou: 0.391246497631073
7326 masks dr unique: tensor([-7.7347, -7.7272, -7.7072, ..., 11.6947, 11.6949, 11.6979],
7327
          grad_fn=<Unique2Backward0>)
7328 masks_dr unique: tensor([-7.7347, -7.7272, -7.7072, ..., 11.6947, 11.6949, 11.6979],
          grad_fn=<Unique2Backward0>)
7329
49286365509033203, print_iou: 0.32701995968818665
7331 masks_dr unique: tensor([-7.7382, -7.7307, -7.7106, ..., 11.6969, 11.6971, 11.7001],
7332
          grad_fn=<Unique2Backward0>)
7333 masks_dr unique: tensor([-7.7382, -7.7307, -7.7106, ..., 11.6969, 11.6971, 11.7001],
          grad_fn=<Unique2Backward0>)
7335 print_dice: 0.5243940353393555, print_iou: 0.35537537932395935
7387, -7.7311, -7.7110, ..., 11.6993, 11.7018, 11.7023],
7337
          grad_fn=<Unique2Backward0>)
7338 masks_dr unique: tensor([-7.7387, -7.7311, -7.7110, ..., 11.6993, 11.7018, 11.7023],
          grad fn=<Unique2Backward0>)
7340 Epoch 25/499: 100%| | 100%| 160/160 [25:41<00:00, 9.56s/it]print_dice: 0.
    5163829922676086,
                   print_iou: 0.3480567932128906
     [159/160] eta: 0:00:09 time: 9.5503 data: 0.0005
7341
7342 Epoch 25/499: 100%| 100% | 160/160 [25:42<00:00, 9.64s/it]
7343 Total time: 0:25:42 (9.6378 s / it)
7344 Averaged stats: training_loss: -303.5637 (-303.5637) loss_mask: -303.6404 (-303.6404)
    loss_dice: 0.0768 (0.0768)
                0/12 [00:00<?, ?it/s]Net parameter norm: 1054.4243602813222
7345
     0%|
7346 Validating...
7347 Valid dataloader len: 12
7348 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.9914e-04, 4.
    7314e-04, 4.8102e-04, ..., 1.0000e+00, 1.0000e+00,
           1.0000e+00], grad_fn=<Unique2Backward0>)
7349
7350 masks dr unique: tensor([7.1368e-04, 7.1439e-04, 7.1539e-04, ..., 1.0000e+00, 1.0000e+00,
           1.0000e+00], grad_fn=<Unique2Backward0>)
                 | 1/12 [00:09<01:48, 9.88s/it]print dice: 0.555482804775238, print_iou: 0.
7352
     8%|
    3845456540584564
7353
     [ 0/12] eta: 0:01:58
                          time: 9.8825 data: 4.1132
7354 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.8901e-04, 3.
```

```
7354 1210e-04, 3.5859e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
7355
7356 masks dr unique: tensor([5.5799e-04, 5.6675e-04, 5.7550e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
7357
                   | 2/12 [00:15<01:15, 7.60s/it]print_dice: 0.6069514751434326, print_iou: 0.
7358 17%
    4357001483440399
7359 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.4656e-04, 2.
    7257e-04, 3.1583e-04, ..., 9.9999e-01, 9.9999e-01,
7360
            9.9999e-01], grad_fn=<Unique2Backward0>)
7361 masks_dr unique: tensor([4.6942e-04, 4.7342e-04, 4.7857e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
7362
7363 25%
                   | 3/12 [00:21<01:00, 6.75s/it]print_dice: 0.5331529974937439, print_iou: 0.
    3634687066078186
7364 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.1800e-04, 3.
    4435e-04, 3.4934e-04, ..., 9.9999e-01, 9.9999e-01,
7365
            9.9999e-01], grad_fn=<Unique2Backward0>)
7366 masks_dr unique: tensor([3.3484e-04, 3.4624e-04, 3.5764e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
7368 print_dice: 0.5178741812705994, print_iou: 0.34941306710243225
                  | 4/12 [00:27<00:52, 6.55s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.1758e-04, 3.4474e-04, 3.4912e-04, ..., 9.9999e-01, 9.
    9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
7370
7371 masks_dr unique: tensor([5.1120e-04, 5.1478e-04, 5.1495e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
7373 42%
                   | 5/12 [00:33<00:44, 6.29s/it]print dice: 0.5753214359283447, print iou: 0.
    40382546186447144
7374 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.4228e-04, 3.
    4433e-04, 3.6172e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
7375
7376 masks_dr unique: tensor([5.3566e-04, 5.3757e-04, 5.5120e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
7377
                   6/12 [00:39<00:36, 6.05s/it]print_dice: 0.5083401799201965, print_iou: 0.
7378 50%
    3407882750034332
7379 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.1811e-04, 3.
    4505e-04, 3.5028e-04, ..., 9.9999e-01, 9.9999e-01,
7380
            9.9999e-01], grad_fn=<Unique2Backward0>)
7381 masks_dr unique: tensor([3.3498e-04, 3.4641e-04, 3.5785e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
7383 print dice: 0.43981531262397766, print iou: 0.28189951181411743
                  ]) unique sigmoid values: tensor([2.3261e-04, 2.6021e-04, 2.6297e-04, ..., 1.0000e+00, 1.
    0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
7385
7386 masks_dr unique: tensor([4.1672e-04, 4.2067e-04, 4.2366e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
7387
7388 67%| | 8/12 [00:51<00:24, 6.05s/it]print_dice: 0.5456759929656982, print_iou: 0.
    37520936131477356
7389 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.0179e-04, 4.
    2751e-04, 4.4506e-04, ..., 1.0000e+00, 1.0000e+00,
7390
            1.0000e+00], grad_fn=<Unique2Backward0>)
7391 masks dr unique: tensor([6.2448e-04, 6.2689e-04, 6.3139e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
7392
7393 75%
                   | 9/12 [00:57<00:18, 6.16s/it]print_dice: 0.5623370409011841, print_iou: 0.
    39114663004875183
7394 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.3967e-04, 2.
    4736e-04, 2.7370e-04, ..., 9.9999e-01, 1.0000e+00,
7395
            1.0000e+00], grad_fn=<Unique2Backward0>)
7396 masks_dr unique: tensor([3.9932e-04, 4.0597e-04, 4.0879e-04, ..., 9.9999e-01, 9.9999e-01,
7397
            9.9999e-01], grad_fn=<Unique2Backward0>)
7398 83%
          | 10/12 [01:03<00:11, 5.99s/it]print_dice: 0.5773565173149109, print_iou: 0
     .4058336019515991
7399 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.1771e-04, 3.
    4419e-04, 3.4897e-04, ..., 9.9999e-01, 9.9999e-01,
7400
            9.9999e-01], grad_fn=<Unique2Backward0>)
7401 masks_dr unique: tensor([5.1113e-04, 5.1417e-04, 5.1471e-04, ..., 9.9999e-01, 9.9999e-01,
7402
            9.9999e-01], grad fn=<Unique2Backward0>)
7403 print dice: 0.6142994165420532, print iou: 0.44331324100494385
                | | 11/12 [01:09<00:05, 5.93s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
7404 92%||
```

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7404 ]) unique sigmoid values: tensor([2.0425e-04, 2.5548e-04, 2.6189e-04, ..., 1.0000e+00, 1.
7405
            1.0000e+00], grad fn=<Unique2Backward0>)
7406 masks dr unique: tensor([4.3757e-04, 4.3774e-04, 4.4339e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
7408 100%|
            12/12 [01:14<00:00, 5.83s/it]print_dice: 0.5811184048652649, print_iou: 0
    .4095609188079834
                              time: 6.2376 data: 0.3432
7409
      [11/12] eta: 0:00:06
7410 100% | 100% | 12/12 [01:15<00:00, 6.27s/it]
7411 Total time: 0:01:15 (6.2724 s / it)
7412 ============
7413 Averaged stats:
7414 epoch:
             26 learning rate:
                                   1e-07
7415 Epoch 26/499: 0%
                                | 0/160 [00:00<?, ?it/s]masks_dr unique: tensor([-7.7448, -7.
    7351, -7.7209, ..., 11.9503, 11.9521, 11.9561],
7416
           grad fn=<Unique2Backward0>)
7417 masks_dr unique: tensor([-7.7448, -7.7351, -7.7209, ..., 11.9503, 11.9521, 11.9561],
           grad_fn=<Unique2Backward0>)
7419 print_dice: 0.5502804517745972,
                                     print_iou: 0.3795771598815918
7420 [ 0/160] eta: 0:36:52 time: 13.8258 data: 4.3075
7421 Epoch 26/499: 1%
                              | 1/160 [00:13<36:38, 13.83s/it]masks_dr unique: tensor([-7.
    7393, -7.7318, -7.7117, ..., 11.6989, 11.7002, 11.7016],
7422
           grad fn=<Unique2Backward0>)
7423 masks dr unique: tensor([-7.7393, -7.7318, -7.7117, ..., 11.6989, 11.7002, 11.7016],
           grad_fn=<Unique2Backward0>)
7425 Epoch 26/499:
                                2/160 [00:23<30:07, 11.44s/it]print_dice: 0.575637936592102
                   1%||
        print iou: 0.40413737297058105
7426 masks dr unique: tensor([-8.1631, -8.1608, -8.1487, ..., 12.7332, 12.7338, 12.7341],
           grad_fn=<Unique2Backward0>)
7427
7428 masks_dr unique: tensor([-8.1631, -8.1608, -8.1487, ..., 12.7332, 12.7338, 12.7341],
           grad_fn=<Unique2Backward0>)
7430 print_dice: 0.5217389464378357, print_iou: 0.35294103622436523
7431 Epoch 26/499: 2%||
                          | 3/160 [00:33<27:45, 10.61s/it]masks_dr unique: tensor([-7.
    9927, -7.9815, -7.9747, ..., 12.9889, 12.9890, 12.9948],
7432
           grad_fn=<Unique2Backward0>)
7433 masks_dr unique: tensor([-7.9927, -7.9815, -7.9747, ..., 12.9889, 12.9890, 12.9948],
7434
           grad fn=<Unique2Backward0>)
7435 print_dice: 0.5677666068077087, print_iou: 0.3964204788208008
7436 Epoch 26/499: 2%|■
                         | 4/160 [00:42<26:44, 10.28s/it]masks_dr unique: tensor([-7.
    3367, -7.3228, -7.3192, ..., 11.7947, 11.7989, 11.8021],
7437
           grad_fn=<Unique2Backward0>)
7438 masks_dr unique: tensor([-7.3367, -7.3228, -7.3192, ..., 11.7947, 11.7989, 11.8021],
7439
           grad_fn=<Unique2Backward0>)
7440 Epoch 26/499:
                                | 5/160 [00:52<25:57, 10.05s/it]print_dice: 0.5139915943145752
        print_iou: 0.3458873927593231
7441 masks_dr unique: tensor([-7.7384, -7.7308, -7.7107, ..., 11.6998, 11.7002, 11.7031],
           grad_fn=<Unique2Backward0>)
7443 masks_dr unique: tensor([-7.7384, -7.7308, -7.7107, ..., 11.6998, 11.7002, 11.7031],
           grad_fn=<Unique2Backward0>)
7445 print_dice: 0.42889559268951416, print_iou: 0.2729898691177368
6620, -7.6461, -7.6432, ..., 12.6862, 12.6923, 12.6957],
7447
           grad_fn=<Unique2Backward0>)
7448 masks_dr unique: tensor([-7.6620, -7.6461, -7.6432, ..., 12.6862, 12.6923, 12.6957],
           grad_fn=<Unique2Backward0>)
7450 print_dice: 0.5130392909049988,
                                     print_iou: 0.3450254499912262
7451 Epoch 26/499: 4%|■
                                7/160 [01:11<24:44, 9.70s/it]masks_dr unique: tensor([-7.
    7402, -7.7326, -7.7125, ..., 11.6961, 11.6963, 11.6993],
7452
           grad_fn=<Unique2Backward0>)
7453 masks_dr unique: tensor([-7.7402, -7.7326, -7.7125, ..., 11.6961, 11.6963, 11.6993],
           grad_fn=<Unique2Backward0>)
7454
7455 Epoch 26/499:
                    5%|
                                8/160 [01:21<24:30, 9.67s/it]print_dice: 0.4739845097064972
        print_iou: 0.31060266494750977
7456 masks dr unique: tensor([-7.4740, -7.4649, -7.4607, ..., 11.4621, 11.4668, 11.4703],
           grad_fn=<Unique2Backward0>)
7458 masks_dr unique: tensor([-7.4740, -7.4649, -7.4607, ..., 11.4621, 11.4668, 11.4703],
7459
           grad fn=<Unique2Backward0>)
                                9/160 [01:30<24:18, 9.66s/it]print_dice: 0.6227601170539856
7460 Epoch 26/499:
                    6%
        print iou: 0.452179878950119
```

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7461 masks dr unique: tensor([-7.7406, -7.7330, -7.7129, ..., 11.6989, 11.6991, 11.7021],
           grad_fn=<Unique2Backward0>)
7463 masks dr unique: tensor([-7.7406, -7.7330, -7.7129, ..., 11.6989, 11.6991, 11.7021],
7464
           grad fn=<Unique2Backward0>)
7465 print dice: 0.4970974326133728, print_iou: 0.3307582437992096
                         | 10/160 [01:40<23:51, 9.55s/it]masks_dr unique: tensor([-7.
7466 Epoch 26/499: 6%|■
    8120, -7.8094, -7.7932, ..., 12.5243, 12.5313, 12.5355],
7467
           grad_fn=<Unique2Backward0>)
7468 masks_dr unique: tensor([-7.8120, -7.8094, -7.7932, ..., 12.5243, 12.5313, 12.5355],
7469
           grad fn=<Unique2Backward0>)
7470 print dice: 0.5968653559684753, print iou: 0.42537999153137207
                         | 11/160 [01:49<23:35, 9.50s/it]masks_dr unique: tensor([-7.
7471 Epoch 26/499: 7%|■
    7443, -7.7367, -7.7165, ..., 11.7019, 11.7019, 11.7050],
7472
           grad fn=<Unique2Backward0>)
7473 masks_dr unique: tensor([-7.7443, -7.7367, -7.7165, ..., 11.7019, 11.7019, 11.7050],
           grad fn=<Unique2Backward0>)
7475 print dice: 0.4968794584274292, print iou: 0.33056527376174927
7476 Epoch 26/499:
                   8%|
                           | 12/160 [01:59<23:40, 9.60s/it]masks_dr unique: tensor([-7.
    6670, -7.6524, -7.6502, ..., 11.5215, 11.5273, 11.5304],
7477
           grad fn=<Unique2Backward0>)
7478 masks_dr unique: tensor([-7.6670, -7.6524, -7.6502, ..., 11.5215, 11.5273, 11.5304],
           grad_fn=<Unique2Backward0>)
7480 print dice: 0.6020698547363281, print iou: 0.4306866228580475
7427, -7.7350, -7.7147, ..., 11.7006, 11.7006, 11.7037],
7482
           grad_fn=<Unique2Backward0>)
7483 masks dr unique: tensor([-7.7427, -7.7350, -7.7147, ..., 11.7006, 11.7006, 11.7037],
           grad fn=<Unique2Backward0>)
7485 print dice: 0.46785831451416016,
                                     print_iou: 0.3053623139858246
                                | 14/160 [02:18<23:23, 9.61s/it]masks dr unique: tensor([-7.
7486 Epoch 26/499:
                   9%
    7420, -7.7342, -7.7139, ..., 11.7009, 11.7011, 11.7040],
           grad_fn=<Unique2Backward0>)
7488 masks_dr unique: tensor([-7.7420, -7.7342, -7.7139, ..., 11.7009, 11.7011, 11.7040],
           grad fn=<Unique2Backward0>)
7489
7490 Epoch 26/499:
                   9%|
                                | 15/160 [02:27<22:58, 9.51s/it]print_dice: 0.
    48730599880218506,
                       print_iou: 0.32214444875717163
7491 masks_dr unique: tensor([-7.7406, -7.7328, -7.7125, ..., 11.6987, 11.6989, 11.7019],
           grad_fn=<Unique2Backward0>)
7493 masks_dr unique: tensor([-7.7406, -7.7328, -7.7125, ..., 11.6987, 11.6989, 11.7019],
7494
           grad fn=<Unique2Backward0>)
7495 print dice: 0.44171255826950073,
                                     print iou: 0.28346025943756104
7496 Epoch 26/499: 10%
                          | 16/160 [02:37<22:56, 9.56s/it]masks_dr unique: tensor([-7.
    7437, -7.7358, -7.7153, ..., 11.7013, 11.7018, 11.7044],
           grad fn=<Unique2Backward0>)
7498 masks_dr unique: tensor([-7.7437, -7.7358, -7.7153, ..., 11.7013, 11.7018, 11.7044],
           grad_fn=<Unique2Backward0>)
7500 print_dice: 0.519041121006012, print_iou: 0.35047638416290283
6832, -7.6603, -7.6518, ..., 11.5236, 11.5293, 11.5341],
7502
           grad fn=<Unique2Backward0>)
7503 masks_dr unique: tensor([-7.6832, -7.6603, -7.6518, ..., 11.5236, 11.5293, 11.5341],
7504
           grad fn=<Unique2Backward0>)
7505 print_dice: 0.5617618560791016, print_iou: 0.3905903100967407
7506 Epoch 26/499: 11%
                         | 18/160 [02:56<22:44, 9.61s/it]masks_dr unique: tensor([-7.
    7442, -7.7362, -7.7156, ..., 11.7049, 11.7053, 11.7082],
7507
           grad_fn=<Unique2Backward0>)
7508 masks_dr unique: tensor([-7.7442, -7.7362, -7.7156, ..., 11.7049, 11.7053, 11.7082],
           grad_fn=<Unique2Backward0>)
7509
7510 Epoch 26/499: 12%
                                | 19/160 [03:05<22:17, 9.49s/it]print_dice: 0.5606312155723572
        print_iou: 0.38949793577194214
7511 masks_dr unique: tensor([-7.6509, -7.6345, -7.6130, ..., 12.9712, 12.9723, 12.9733],
           grad fn=<Unique2Backward0>)
7512
7513 masks_dr unique: tensor([-7.6509, -7.6345, -7.6130, ..., 12.9712, 12.9723, 12.9733],
7514
           grad fn=<Unique2Backward0>)
                                20/160 [03:15<22:14, 9.53s/it]print dice: 0.5328103303909302
7515 Epoch 26/499: 12%
        print iou: 0.3631502687931061
7516 masks_dr unique: tensor([-7.7421, -7.7341, -7.7134, ..., 11.7014, 11.7016, 11.7046],
           grad fn=<Unique2Backward0>)
7517
7518 masks dr unique: tensor([-7.7421, -7.7341, -7.7134, ..., 11.7014, 11.7016, 11.7046],
```

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grad fn=<Unique2Backward0>)
7520 print dice: 0.4426215887069702, print_iou: 0.28420940041542053
7521 Epoch 26/499: 13%|■ | 21/160 [03:24<21:59, 9.50s/it]masks_dr unique: tensor([-7.
    9014, -7.8976, -7.8841, ..., 13.2204, 13.2233, 13.2234],
7522
           grad_fn=<Unique2Backward0>)
7523 masks_dr unique: tensor([-7.9014, -7.8976, -7.8841, ..., 13.2204, 13.2233, 13.2234],
           grad fn=<Unique2Backward0>)
7524
7525 Epoch 26/499: 14%|■
                                 22/160 [03:34<21:54, 9.53s/it]print_dice: 0.5153975486755371
        print_iou: 0.34716200828552246
7526 masks_dr unique: tensor([-7.7415, -7.7334, -7.7126, ..., 11.7049, 11.7050, 11.7081],
7527
           grad_fn=<Unique2Backward0>)
7528 masks_dr unique: tensor([-7.7415, -7.7334, -7.7126, ..., 11.7049, 11.7050, 11.7081],
7529
           grad_fn=<Unique2Backward0>)
7530 print dice: 0.47186747193336487,
                                       print iou: 0.3087870180606842
                           | 23/160 [03:44<21:44, 9.52s/it]masks_dr unique: tensor([-7.
7531 Epoch 26/499: 14%
    2270, -7.2212, -7.2122, ..., 11.6119, 11.6176, 11.6214],
7532
           grad_fn=<Unique2Backward0>)
7533 masks_dr unique: tensor([-7.2270, -7.2212, -7.2122, ..., 11.6119, 11.6176, 11.6214],
7534
           grad_fn=<Unique2Backward0>)
7535 Epoch 26/499: 15%
                                 24/160 [03:53<21:34, 9.52s/it]print_dice: 0.5147362351417542
        print_iou: 0.34656214714050293
7536 masks_dr unique: tensor([-7.7684, -7.7591, -7.7527, ..., 12.2241, 12.2248, 12.2255],
7537
           grad fn=<Unique2Backward0>)
7538 masks dr unique: tensor([-7.7684, -7.7591, -7.7527, ..., 12.2241, 12.2248, 12.2255],
           grad fn=<Unique2Backward0>)
7540 Epoch 26/499: 16%
                                 25/160 [04:02<21:17, 9.46s/it]print_dice: 0.4398344159126282
        print iou: 0.28191521763801575
7541 masks_dr unique: tensor([-7.4680, -7.4617, -7.4408, ..., 11.3113, 11.3114, 11.3166],
           grad_fn=<Unique2Backward0>)
7543 masks_dr unique: tensor([-7.4680, -7.4617, -7.4408, ..., 11.3113, 11.3114, 11.3166],
           grad fn=<Unique2Backward0>)
7545 Epoch 26/499: 16%|■
                                 26/160 [04:12<21:16, 9.52s/it]print_dice: 0.5540740489959717
        print iou: 0.38319671154022217
7546 masks_dr unique: tensor([-7.4115, -7.4022, -7.3891, ..., 11.6905, 11.6939, 11.6945],
           grad_fn=<Unique2Backward0>)
7548 masks_dr unique: tensor([-7.4115, -7.4022, -7.3891, ..., 11.6905, 11.6939, 11.6945],
7549
           grad_fn=<Unique2Backward0>)
7550 print_dice: 0.4997025430202484, print_iou: 0.33306896686553955
7551 Epoch 26/499: 17% ■ | 27/160 [04:22<21:07, 9.53s/it]masks_dr unique: tensor([-7.
    8616, -7.8585, -7.8474, ..., 13.2493, 13.2512, 13.2514],
7552
           grad_fn=<Unique2Backward0>)
7553 masks_dr unique: tensor([-7.8616, -7.8585, -7.8474, ..., 13.2493, 13.2512, 13.2514],
7554
           grad_fn=<Unique2Backward0>)
7555 Epoch 26/499: 18%
                                 28/160 [04:31<21:07, 9.60s/it]print_dice: 0.5094130039215088
        print_iou: 0.3417532742023468
7556 masks_dr unique: tensor([-7.5415, -7.5414, -7.5288, ..., 12.5603, 12.5611, 12.5618],
           grad_fn=<Unique2Backward0>)
7557
7558 masks_dr unique: tensor([-7.5415, -7.5414, -7.5288, ..., 12.5603, 12.5611, 12.5618],
           grad fn=<Unique2Backward0>)
7559
7560 Epoch 26/499: 18%
                                 29/160 [04:41<20:49, 9.54s/it]print_dice: 0.5816561579704285
        print_iou: 0.41009530425071716
7561 masks_dr unique: tensor([-7.9192, -7.9078, -7.9017, ..., 12.9865, 12.9872, 12.9928],
           grad_fn=<Unique2Backward0>)
7562
7563 masks_dr unique: tensor([-7.9192, -7.9078, -7.9017, ..., 12.9865, 12.9872, 12.9928],
           grad_fn=<Unique2Backward0>)
7565 Epoch 26/499: 19%
                                | 30/160 [04:50<20:36, 9.51s/it]print_dice: 0.5299738049507141
        print_iou: 0.36051997542381287
7566 masks_dr unique: tensor([-8.0519, -8.0450, -8.0420, ..., 12.8253, 12.8271, 12.8271],
           grad_fn=<Unique2Backward0>)
7568 masks_dr unique: tensor([-8.0519, -8.0450, -8.0420, ..., 12.8253, 12.8271, 12.8271],
           grad_fn=<Unique2Backward0>)
7569
7570 print_dice: 0.5931372046470642, print_iou: 0.421602725982666
7571 Epoch 26/499: 19%
                                 | 31/160 [05:00<20:31, 9.55s/it]masks_dr unique: tensor([-7.
    7375, -7.7292, -7.7083, ..., 11.7043, 11.7045, 11.7075],
7572
           grad_fn=<Unique2Backward0>)
7573 masks_dr unique: tensor([-7.7375, -7.7292, -7.7083, ..., 11.7043, 11.7045, 11.7075],
           grad fn=<Unique2Backward0>)
7574
7575 Epoch 26/499: 20%
                                 | 32/160 [05:10<20:30, 9.61s/it]print_dice: 0.
    45197275280952454,
                         print iou: 0.29196691513061523
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7576 masks dr unique: tensor([-7.6975, -7.6885, -7.6810, ..., 11.6588, 11.6651, 11.6678],
           grad fn=<Unique2Backward0>)
7578 masks dr unique: tensor([-7.6975, -7.6885, -7.6810, ..., 11.6588, 11.6651, 11.6678],
7579
           grad fn=<Unique2Backward0>)
7580 print_dice: 0.5085355639457703, print_iou: 0.3409639000892639
7581 Epoch 26/499: 21%
    7377, -7.7293, -7.7082, ..., 11.7067, 11.7069, 11.7099],
7582
           grad_fn=<Unique2Backward0>)
7583 masks_dr unique: tensor([-7.7377, -7.7293, -7.7082, ..., 11.7067, 11.7069, 11.7099],
           grad fn=<Unique2Backward0>)
7584
7585 Epoch 26/499: 21%
                                34/160 [05:29<20:02, 9.54s/it]print_dice: 0.5779608488082886
        print_iou: 0.40643107891082764
7586 masks_dr unique: tensor([-7.6560, -7.6514, -7.6379, ..., 12.9166, 12.9177, 12.9218],
           grad fn=<Unique2Backward0>)
7587
7588 masks_dr unique: tensor([-7.6560, -7.6514, -7.6379, ..., 12.9166, 12.9177, 12.9218],
7589
           grad_fn=<Unique2Backward0>)
7590 print dice: 0.5375620126724243, print iou: 0.3675793707370758
7591 Epoch 26/499: 22%
    9603, -7.9600, -7.9600, ..., 12.1341, 12.1416, 12.1442],
7592
           grad fn=<Unique2Backward0>)
7593 masks_dr unique: tensor([-7.9603, -7.9600, -7.9600, ..., 12.1341, 12.1416, 12.1442],
           grad_fn=<Unique2Backward0>)
7595 Epoch 26/499: 22%
                                | 36/160 [05:48<19:44, 9.55s/it]print dice: 0.5317661762237549
        print iou: 0.36218082904815674
7596 masks_dr unique: tensor([-7.8882, -7.8781, -7.8687, ..., 12.3275, 12.3348, 12.3391],
           grad_fn=<Unique2Backward0>)
7597
7598 masks dr unique: tensor([-7.8882, -7.8781, -7.8687, ..., 12.3275, 12.3348, 12.3391],
7599
           grad fn=<Unique2Backward0>)
7600 Epoch 26/499: 23%
                                37/160 [05:57<19:38, 9.58s/it]print_dice: 0.4940375089645386
        print iou: 0.3280543386936188
7601 masks_dr unique: tensor([-7.5538, -7.5466, -7.5459, ..., 12.1571, 12.1603, 12.1645],
           grad_fn=<Unique2Backward0>)
7602
7603 masks_dr unique: tensor([-7.5538, -7.5466, -7.5459, ..., 12.1571, 12.1603, 12.1645],
           grad fn=<Unique2Backward0>)
7604
7605 Epoch 26/499: 24%
                                38/160 [06:07<19:30, 9.59s/it]print_dice: 0.5062006711959839
        print_iou: 0.3388679325580597
7606 masks_dr unique: tensor([-7.7350, -7.7263, -7.7055, ..., 11.7127, 11.7129, 11.7157],
           grad_fn=<Unique2Backward0>)
7607
7608 masks_dr unique: tensor([-7.7350, -7.7263, -7.7055, ..., 11.7127, 11.7129, 11.7157],
           grad fn=<Unique2Backward0>)
7609
7610 Epoch 26/499: 24%
                                | 39/160 [06:16<19:13, 9.53s/it]print_dice: 0.5516064167022705
        print_iou: 0.38084015250205994
7611 masks_dr unique: tensor([-7.7519, -7.7415, -7.7311, ..., 12.9379, 12.9404, 12.9406],
           grad fn=<Unique2Backward0>)
7613 masks_dr unique: tensor([-7.7519, -7.7415, -7.7311, ..., 12.9379, 12.9404, 12.9406],
           grad_fn=<Unique2Backward0>)
7614
7615 Epoch 26/499: 25%
                                40/160 [06:26<19:07, 9.56s/it]print_dice: 0.
    45944005250930786, print_iou: 0.29822927713394165
7616 masks dr unique: tensor([-7.7360, -7.7346, -7.7260, ..., 12.5674, 12.5758, 12.5810],
7617
           grad fn=<Unique2Backward0>)
7618 masks_dr unique: tensor([-7.7360, -7.7346, -7.7260, ..., 12.5674, 12.5758, 12.5810],
7619
           grad_fn=<Unique2Backward0>)
7620 print_dice: 0.640488862991333, print_iou: 0.4711170196533203
7621 Epoch 26/499: 26% 41/160 [06:36<19:01, 9.59s/it]masks_dr unique: tensor([-7.
    6403, -7.6194, -7.6078, ..., 11.9505, 11.9571, 11.9602],
           grad_fn=<Unique2Backward0>)
7622
7623 masks_dr unique: tensor([-7.6403, -7.6194, -7.6078, ..., 11.9505, 11.9571, 11.9602],
           grad_fn=<Unique2Backward0>)
7625 print dice: 0.5447493195533752, print iou: 0.3743336498737335
7626 Epoch 26/499: 26%
                                42/160 [06:45<18:56, 9.63s/it]masks_dr unique: tensor([-7.
    4381, -7.4195, -7.4069, ..., 11.9304, 11.9329, 11.9383],
           grad_fn=<Unique2Backward0>)
7627
7628 masks_dr unique: tensor([-7.4381, -7.4195, -7.4069, ..., 11.9304, 11.9329, 11.9383],
7629
           grad fn=<Unique2Backward0>)
                                43/160 [06:55<18:49, 9.65s/it]print dice: 0.4819367527961731
7630 Epoch 26/499: 27%
        print_iou: 0.31746816635131836
7631 masks_dr unique: tensor([-7.1916, -7.1822, -7.1822, ..., 12.0632, 12.0638, 12.0662],
           grad_fn=<Unique2Backward0>)
7633 masks dr unique: tensor([-7.1916, -7.1822, -7.1822, ..., 12.0632, 12.0638, 12.0662],
```

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grad fn=<Unique2Backward0>)
7635 print dice: 0.5365517735481262, print_iou: 0.3666352927684784
7636 Epoch 26/499: 28%| 44/160 [07:05<18:35, 9.62s/it]masks_dr unique: tensor([-7.
    7356, -7.7266, -7.7061, ..., 11.7112, 11.7114, 11.7143],
           grad_fn=<Unique2Backward0>)
7638 masks dr unique: tensor([-7.7356, -7.7266, -7.7061, ..., 11.7112, 11.7114, 11.7143],
7639
           grad fn=<Unique2Backward0>)
7640 print_dice: 0.4894901514053345, print_iou: 0.3240562379360199
7641 Epoch 26/499: 28%
    7355, -7.7266, -7.7062, ..., 11.7098, 11.7100, 11.7130],
7642
           grad fn=<Unique2Backward0>)
7643 masks_dr unique: tensor([-7.7355, -7.7266, -7.7062, ..., 11.7098, 11.7100, 11.7130],
7644
           grad fn=<Unique2Backward0>)
7645 print dice: 0.5378456115722656, print iou: 0.3678446114063263
7646 Epoch 26/499: 29%| 46/160 [07:24<18:25, 9.70s/it]masks_dr unique: tensor([-7.
    7364, -7.7274, -7.7070, ..., 11.7109, 11.7131, 11.7138],
7647
           grad_fn=<Unique2Backward0>)
7648 masks_dr unique: tensor([-7.7364, -7.7274, -7.7070, ..., 11.7109, 11.7131, 11.7138],
           grad_fn=<Unique2Backward0>)
7650 print_dice: 0.41790419816970825, print_iou: 0.26414594054222107
2527, -7.2492, -7.2356, ..., 11.9144, 11.9144, 11.9146],
7652
           grad fn=<Unique2Backward0>)
7653 masks_dr unique: tensor([-7.2527, -7.2492, -7.2356, ..., 11.9144, 11.9144, 11.9146],
           grad_fn=<Unique2Backward0>)
7655 Epoch 26/499: 30%
                                48/160 [07:43<17:52, 9.58s/it]print_dice: 0.5152148008346558
        print iou: 0.3469961881637573
7656 masks_dr unique: tensor([-7.4553, -7.4518, -7.4388, ..., 13.1848, 13.1848, 13.1861],
7657
           grad_fn=<Unique2Backward0>)
7658 masks_dr unique: tensor([-7.4553, -7.4518, -7.4388, ..., 13.1848, 13.1848, 13.1861],
           grad fn=<Unique2Backward0>)
                                | 49/160 [07:53<17:42, 9.57s/it]print_dice: 0.5244359374046326
7660 Epoch 26/499: 31%
        print iou: 0.35541388392448425
7661 masks_dr unique: tensor([-7.7150, -7.7088, -7.7062, ..., 12.1901, 12.1951, 12.1992],
7662
           grad_fn=<Unique2Backward0>)
7663 masks_dr unique: tensor([-7.7150, -7.7088, -7.7062, ..., 12.1901, 12.1951, 12.1992],
7664
           grad fn=<Unique2Backward0>)
7665 print_dice: 0.4807003438472748, print_iou: 0.31639599800109863
7666 Epoch 26/499: 31%| | 50/160 [08:02<17:34, 9.59s/it]masks_dr unique: tensor([-7.
    7375, -7.7284, -7.7081, ..., 11.7142, 11.7145, 11.7175],
7667
           grad_fn=<Unique2Backward0>)
7668 masks_dr unique: tensor([-7.7375, -7.7284, -7.7081, ..., 11.7142, 11.7145, 11.7175],
7669
           grad_fn=<Unique2Backward0>)
7670 Epoch 26/499: 32%
                                | 51/160 [08:12<17:28, 9.62s/it]print_dice: 0.5405523777008057
        print_iou: 0.37038150429725647
7671 masks_dr unique: tensor([-7.4811, -7.4783, -7.4676, ..., 11.5283, 11.5341, 11.5381],
           grad_fn=<Unique2Backward0>)
7672
7673 masks_dr unique: tensor([-7.4811, -7.4783, -7.4676, ..., 11.5283, 11.5341, 11.5381],
           grad fn=<Unique2Backward0>)
7674
7675 Epoch 26/499: 32%
                               52/160 [08:21<17:12, 9.56s/it]print_dice: 0.5523714423179626
        print iou: 0.38156989216804504
7676 masks_dr unique: tensor([-7.2775, -7.2587, -7.2549, ..., 12.0388, 12.0388, 12.0468],
7677
           grad_fn=<Unique2Backward0>)
7678 masks_dr unique: tensor([-7.2775, -7.2587, -7.2549, ..., 12.0388, 12.0388, 12.0468],
           grad_fn=<Unique2Backward0>)
7680 print_dice: 0.5151271820068359,
                                    print_iou: 0.34691670536994934
7681 Epoch 26/499: 33%
                                53/160 [08:31<16:59, 9.53s/it]masks dr unique: tensor([-7.
    7380, -7.7288, -7.7086, ..., 11.7130, 11.7133, 11.7162],
           grad fn=<Unique2Backward0>)
7682
7683 masks_dr unique: tensor([-7.7380, -7.7288, -7.7086, ..., 11.7130, 11.7133, 11.7162],
7684
           grad_fn=<Unique2Backward0>)
7685 Epoch 26/499: 34%
                                54/160 [08:41<16:59, 9.62s/it]print_dice: 0.5624890327453613
        print iou: 0.3912937343120575
7686 masks_dr unique: tensor([-7.7411, -7.7319, -7.7117, ..., 11.7156, 11.7160, 11.7189],
           grad_fn=<Unique2Backward0>)
7687
7688 masks_dr unique: tensor([-7.7411, -7.7319, -7.7117, ..., 11.7156, 11.7160, 11.7189],
           grad fn=<Unique2Backward0>)
7689
7690 print dice: 0.6095617413520813,
                                   print iou: 0.4383954107761383
                                | 55/160 [08:50<16:50, 9.62s/it]masks_dr unique: tensor([-7.
7691 Epoch 26/499: 34%
```

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7691 7405, -7.7313, -7.7111, ..., 11.7130, 11.7134, 11.7163],
           grad_fn=<Unique2Backward0>)
7692
7693 masks_dr unique: tensor([-7.7405, -7.7313, -7.7111, ..., 11.7130, 11.7134, 11.7163],
7694
           grad fn=<Unique2Backward0>)
7695 Epoch 26/499: 35%
                                | 56/160 [09:00<16:40, 9.62s/it]print_dice: 0.5122205018997192
        print_iou: 0.3442852199077606
7696 masks_dr unique: tensor([-7.6605, -7.6564, -7.6555, ..., 12.9183, 12.9199, 12.9212],
7697
           grad_fn=<Unique2Backward0>)
7698 masks_dr unique: tensor([-7.6605, -7.6564, -7.6555, ..., 12.9183, 12.9199, 12.9212],
           grad fn=<Unique2Backward0>)
7699
7700 Epoch 26/499: 36%
                                57/160 [09:09<16:26, 9.57s/it]print dice: 0.5241495370864868
        print_iou: 0.35515084862709045
7701 masks_dr unique: tensor([-7.4109, -7.3871, -7.3783, ..., 11.9943, 11.9950, 11.9954],
           grad fn=<Unique2Backward0>)
7702
7703 masks_dr unique: tensor([-7.4109, -7.3871, -7.3783, ..., 11.9943, 11.9950, 11.9954],
7704
           grad_fn=<Unique2Backward0>)
                               | 58/160 [09:19<16:21, 9.62s/it]print dice: 0.
7705 Epoch 26/499: 36%
    47573646903038025, print_iou: 0.3121090829372406
7706 masks_dr unique: tensor([-7.9333, -7.9301, -7.9142, ..., 13.1517, 13.1539, 13.1549],
           grad fn=<Unique2Backward0>)
7708 masks_dr unique: tensor([-7.9333, -7.9301, -7.9142, ..., 13.1517, 13.1539, 13.1549],
           grad_fn=<Unique2Backward0>)
7709
7710 print dice: 0.49211084842681885,
                                   print iou: 0.3263574540615082
7711 Epoch 26/499: 37%
    7423, -7.7331, -7.7129, ..., 11.7137, 11.7140, 11.7170],
7712
           grad_fn=<Unique2Backward0>)
7713 masks dr unique: tensor([-7.7423, -7.7331, -7.7129, ..., 11.7137, 11.7140, 11.7170],
           grad fn=<Unique2Backward0>)
7714
7715 print dice: 0.5069417953491211, print_iou: 0.3395325243473053
7716 Epoch 26/499: 38%
    8833, -7.8827, -7.8781, ..., 13.0187, 13.0202, 13.0211],
7717
           grad_fn=<Unique2Backward0>)
7718 masks dr unique: tensor([-7.8833, -7.8827, -7.8781, ..., 13.0187, 13.0202, 13.0211],
7719
           grad fn=<Unique2Backward0>)
7720 Epoch 26/499: 38%
                               61/160 [09:48<15:50, 9.61s/it]print_dice: 0.5691538453102112
        print_iou: 0.39777427911758423
7721 masks_dr unique: tensor([-7.7417, -7.7395, -7.7247, ..., 12.5647, 12.5659, 12.5667],
           grad_fn=<Unique2Backward0>)
7723 masks_dr unique: tensor([-7.7417, -7.7395, -7.7247, ..., 12.5647, 12.5659, 12.5667],
           grad fn=<Unique2Backward0>)
7724
7725 Epoch 26/499: 39%
                                62/160 [09:57<15:39, 9.58s/it]print_dice: 0.4959876835346222
        print_iou: 0.3297763466835022
7726 masks_dr unique: tensor([-7.9427, -7.9414, -7.9299, ..., 13.1573, 13.1606, 13.1606],
           grad fn=<Unique2Backward0>)
7728 masks_dr unique: tensor([-7.9427, -7.9414, -7.9299, ..., 13.1573, 13.1606, 13.1606],
           grad_fn=<Unique2Backward0>)
7730 print_dice: 0.5592172741889954, print_iou: 0.3881343603134155
7731 Epoch 26/499: 39%
    0216, -8.0161, -8.0010, ..., 12.4014, 12.4103, 12.4136],
           grad fn=<Unique2Backward0>)
7732
7733 masks_dr unique: tensor([-8.0216, -8.0161, -8.0010, ..., 12.4014, 12.4103, 12.4136],
           grad fn=<Unique2Backward0>)
7734
7735 Epoch 26/499: 40%
                                64/160 [10:17<15:18, 9.57s/it]print_dice: 0.5663424134254456
        print iou: 0.39503324031829834
7736 masks_dr unique: tensor([-7.3572, -7.3527, -7.3521, ..., 12.3601, 12.3613, 12.3629],
7737
           grad_fn=<Unique2Backward0>)
7738 masks_dr unique: tensor([-7.3572, -7.3527, -7.3521, ..., 12.3601, 12.3613, 12.3629],
7739
           grad_fn=<Unique2Backward0>)
7740 Epoch 26/499: 41%
                                | 65/160 [10:26<15:08, 9.56s/it]print_dice: 0.
                        print_iou: 0.30769726634025574
    47059401869773865,
7741 masks dr unique: tensor([-7.7380, -7.7365, -7.7294, ..., 13.0408, 13.0409, 13.0428],
           grad fn=<Unique2Backward0>)
7742
7743 masks_dr unique: tensor([-7.7380, -7.7365, -7.7294, ..., 13.0408, 13.0409, 13.0428],
7744
           grad_fn=<Unique2Backward0>)
7745 print dice: 0.5376288890838623,
                                    print_iou: 0.3676418960094452
7746 Epoch 26/499: 41%
                               66/160 [10:36<15:00, 9.58s/it]masks dr unique: tensor([-7.
    6754, -7.6705, -7.6575, ..., 13.0880, 13.0880, 13.0900],
           grad_fn=<Unique2Backward0>)
7747
7748 masks_dr unique: tensor([-7.6754, -7.6705, -7.6575, ..., 13.0880, 13.0880, 13.0900],
```

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grad fn=<Unique2Backward0>)
7750 print dice: 0.5573831796646118, print_iou: 0.3863694965839386
7751 Epoch 26/499: 42%| 67/160 [10:45<14:52, 9.60s/it]masks_dr unique: tensor([-7.
    7298, -7.7142, -7.7083, ..., 12.2302, 12.2309, 12.2331],
           grad_fn=<Unique2Backward0>)
7753 masks_dr unique: tensor([-7.7298, -7.7142, -7.7083, ..., 12.2302, 12.2309, 12.2331],
           grad fn=<Unique2Backward0>)
7754
7755 print_dice: 0.45847296714782715, print_iou: 0.2974148094654083
7756 Epoch 26/499: 42%| | 68/160 [10:55<14:48, 9.66s/it]masks_dr unique: tensor([-7.
    7843, -7.7614, -7.7554, ..., 11.9232, 11.9261, 11.9304],
7757
           grad fn=<Unique2Backward0>)
7758 masks_dr unique: tensor([-7.7843, -7.7614, -7.7554, ..., 11.9232, 11.9261, 11.9304],
7759
           grad_fn=<Unique2Backward0>)
7760 Epoch 26/499: 43%
                                69/160 [11:05<14:38, 9.65s/it]print dice: 0.4654831886291504
        print_iou: 0.3033418655395508
7761 masks_dr unique: tensor([-8.1090, -8.0994, -8.0923, ..., 12.8802, 12.8820, 12.8828],
           grad fn=<Unique2Backward0>)
7763 masks_dr unique: tensor([-8.1090, -8.0994, -8.0923, ..., 12.8802, 12.8820, 12.8828],
           grad_fn=<Unique2Backward0>)
7764
7765 Epoch 26/499: 44%
                                70/160 [11:15<14:28, 9.65s/it]print_dice: 0.5457414984703064
        print_iou: 0.3752712905406952
7766 masks_dr unique: tensor([-7.7511, -7.7421, -7.7214, ..., 11.7151, 11.7154, 11.7183],
7767
           grad fn=<Unique2Backward0>)
7768 masks_dr unique: tensor([-7.7511, -7.7421, -7.7214, ..., 11.7151, 11.7154, 11.7183],
           grad fn=<Unique2Backward0>)
7770 print dice: 0.49831730127334595,
                                      print_iou: 0.33183929324150085
7771 Epoch 26/499: 44%
    7543, -7.7454, -7.7245, ..., 11.7155, 11.7180, 11.7186],
           grad fn=<Unique2Backward0>)
7772
7773 masks_dr unique: tensor([-7.7543, -7.7454, -7.7245, ..., 11.7155, 11.7180, 11.7186],
           grad fn=<Unique2Backward0>)
7775 print_dice: 0.5384775996208191, print_iou: 0.3684360682964325
7776 Epoch 26/499: 45%| 72/160 [11:34<14:09, 9.65s/it]masks_dr unique: tensor([-7.
    4349, -7.4329, -7.4183, ..., 12.7388, 12.7395, 12.7403],
           grad fn=<Unique2Backward0>)
7777
7778 masks_dr unique: tensor([-7.4349, -7.4329, -7.4183, ..., 12.7388, 12.7395, 12.7403],
7779
           grad fn=<Unique2Backward0>)
7780 print_dice: 0.4658365845680237, print_iou: 0.3036420941352844
7781 Epoch 26/499: 46%| 73/160 [11:43<13:57, 9.63s/it]masks_dr unique: tensor([-7.
    5993, -7.5934, -7.5876, ..., 12.9239, 12.9239, 12.9257],
7782
           grad fn=<Unique2Backward0>)
7783 masks_dr unique: tensor([-7.5993, -7.5934, -7.5876, ..., 12.9239, 12.9239, 12.9257],
7784
           grad_fn=<Unique2Backward0>)
7785 Epoch 26/499: 46%
                                | 74/160 [11:53<13:49, 9.65s/it]print_dice: 0.
    49549758434295654, print_iou: 0.32934316992759705
7786 masks_dr unique: tensor([-7.7538, -7.7448, -7.7239, ..., 11.7190, 11.7200, 11.7230],
           grad_fn=<Unique2Backward0>)
7787
7788 masks_dr unique: tensor([-7.7538, -7.7448, -7.7239, ..., 11.7190, 11.7200, 11.7230],
           grad fn=<Unique2Backward0>)
7789
7790 Epoch 26/499: 47%
                                | 75/160 [12:03<13:36, 9.61s/it]print dice: 0.4782584011554718
        print iou: 0.3142835795879364
7791 masks_dr unique: tensor([-7.6195, -7.6118, -7.6086, ..., 11.8517, 11.8574, 11.8621],
           grad_fn=<Unique2Backward0>)
7793 masks_dr unique: tensor([-7.6195, -7.6118, -7.6086, ..., 11.8517, 11.8574, 11.8621],
           grad_fn=<Unique2Backward0>)
7795 print_dice: 0.41229304671287537,
                                      print_iou: 0.25967830419540405
                              | 76/160 [12:12<13:29, 9.63s/it]masks_dr unique: tensor([-7.
7796 Epoch 26/499: 48%
    7552, -7.7462, -7.7252, ..., 11.7182, 11.7195, 11.7207],
7797
           grad_fn=<Unique2Backward0>)
7798 masks_dr unique: tensor([-7.7552, -7.7462, -7.7252, ..., 11.7182, 11.7195, 11.7207],
           grad fn=<Unique2Backward0>)
7800 Epoch 26/499: 48%
                                77/160 [12:22<13:17, 9.61s/it]print_dice: 0.486050546169281
        print_iou: 0.3210480809211731
7801 masks_dr unique: tensor([-7.6733, -7.6635, -7.6504, ..., 13.1454, 13.1463, 13.1499],
           grad_fn=<Unique2Backward0>)
7802
7803 masks dr unique: tensor([-7.6733, -7.6635, -7.6504, ..., 13.1454, 13.1463, 13.1499],
7804
           grad fn=<Unique2Backward0>)
7805 Epoch 26/499: 49%
                                78/160 [12:31<13:07, 9.61s/it]print_dice: 0.5539965033531189
        print_iou: 0.3831225335597992
```

```
7806 masks dr unique: tensor([-7.7569, -7.7480, -7.7269, ..., 11.7206, 11.7229, 11.7257],
           grad fn=<Unique2Backward0>)
7808 masks dr unique: tensor([-7.7569, -7.7480, -7.7269, ..., 11.7206, 11.7229, 11.7257],
7809
           grad fn=<Unique2Backward0>)
7810 print dice: 0.5678392648696899, print_iou: 0.39649128913879395
7811 Epoch 26/499: 49% 79/160 [12:41<12:59, 9.62s/it]masks_dr unique: tensor([-7.
    5526, -7.5496, -7.5376, ..., 12.0844, 12.0848, 12.0868],
7812
           grad_fn=<Unique2Backward0>)
7813 masks_dr unique: tensor([-7.5526, -7.5496, -7.5376, ..., 12.0844, 12.0848, 12.0868],
           grad fn=<Unique2Backward0>)
7814
7815 Epoch 26/499: 50%
                                80/160 [12:50<12:43, 9.55s/it]print_dice: 0.5551605820655823
        print iou: 0.3842369019985199
7816 masks_dr unique: tensor([-7.7750, -7.7655, -7.7560, ..., 13.1994, 13.2013, 13.2017],
           grad fn=<Unique2Backward0>)
7817
7818 masks_dr unique: tensor([-7.7750, -7.7655, -7.7560, ..., 13.1994, 13.2013, 13.2017],
           grad_fn=<Unique2Backward0>)
7819
7820 print dice: 0.5503286719322205, print_iou: 0.37962308526039124
7821 Epoch 26/499: 51% 81/160 [13:00<12:30, 9.50s/it]masks_dr unique: tensor([-7.
    7109, -7.6874, -7.6834, ..., 11.7927, 11.7994, 11.8015],
7822
           grad_fn=<Unique2Backward0>)
7823 masks_dr unique: tensor([-7.7109, -7.6874, -7.6834, ..., 11.7927, 11.7994, 11.8015],
           grad_fn=<Unique2Backward0>)
                                82/160 [13:09<12:21, 9.50s/it]print_dice: 0.4436449706554413
7825 Epoch 26/499: 51%
        print iou: 0.2850538194179535
7826 masks_dr unique: tensor([-7.6504, -7.6452, -7.6301, ..., 12.1667, 12.1740, 12.1772],
           grad_fn=<Unique2Backward0>)
7827
7828 masks dr unique: tensor([-7.6504, -7.6452, -7.6301, ..., 12.1667, 12.1740, 12.1772],
7829
           grad fn=<Unique2Backward0>)
7830 print dice: 0.538136899471283, print_iou: 0.36811715364456177
7831 Epoch 26/499: 52%
                               | 83/160 [13:19<12:17, 9.58s/it]masks_dr unique: tensor([-7.
    7827, -7.7825, -7.7703, ..., 12.9844, 12.9863, 12.9865],
7832
           grad_fn=<Unique2Backward0>)
7833 masks dr unique: tensor([-7.7827, -7.7825, -7.7703, ..., 12.9844, 12.9863, 12.9865],
7834
           grad fn=<Unique2Backward0>)
7835 Epoch 26/499: 52%
                                84/160 [13:29<12:09, 9.60s/it]print_dice: 0.5441897511482239
        print_iou: 0.373805433511734
7836 masks_dr unique: tensor([-7.7018, -7.6899, -7.6836, ..., 11.5759, 11.5766, 11.5806],
           grad_fn=<Unique2Backward0>)
7837
7838 masks_dr unique: tensor([-7.7018, -7.6899, -7.6836, ..., 11.5759, 11.5766, 11.5806],
           grad fn=<Unique2Backward0>)
7839
                                | 85/160 [13:38<11:56, 9.56s/it]print_dice: 0.6098930239677429
7840 Epoch 26/499: 53%
        print_iou: 0.4387381970882416
7841 masks_dr unique: tensor([-7.6511, -7.6317, -7.6291, ..., 12.1195, 12.1203, 12.1214],
           grad fn=<Unique2Backward0>)
7843 masks_dr unique: tensor([-7.6511, -7.6317, -7.6291, ..., 12.1195, 12.1203, 12.1214],
           grad_fn=<Unique2Backward0>)
7845 print_dice: 0.5137408971786499, print_iou: 0.34566041827201843
8070, -7.8005, -7.7839, ..., 12.6718, 12.6728, 12.6733],
7847
           grad_fn=<Unique2Backward0>)
7848 masks_dr unique: tensor([-7.8070, -7.8005, -7.7839, ..., 12.6718, 12.6728, 12.6733],
           grad fn=<Unique2Backward0>)
7849
                                | 87/160 [13:57<11:35, 9.53s/it]print_dice: 0.6061315536499023
7850 Epoch 26/499: 54%
        print iou: 0.4348556399345398
7851 masks_dr unique: tensor([-7.8342, -7.8313, -7.8191, ..., 12.2786, 12.2836, 12.2864],
7852
           grad_fn=<Unique2Backward0>)
7853 masks_dr unique: tensor([-7.8342, -7.8313, -7.8191, ..., 12.2786, 12.2836, 12.2864],
7854
           grad_fn=<Unique2Backward0>)
7855 Epoch 26/499: 55%
                                88/160 [14:07<11:28, 9.56s/it]print_dice: 0.523413360118866
        print_iou: 0.3544752299785614
7856 masks_dr unique: tensor([-8.1052, -8.1039, -8.0933, ..., 12.5174, 12.5176, 12.5198],
           grad fn=<Unique2Backward0>)
7857
7858 masks_dr unique: tensor([-8.1052, -8.1039, -8.0933, ..., 12.5174, 12.5176, 12.5198],
           grad_fn=<Unique2Backward0>)
7859
7860 Epoch 26/499: 56%
                                89/160 [14:16<11:18, 9.55s/it]print_dice: 0.4748234152793884
        print iou: 0.3113235831260681
7861 masks_dr unique: tensor([-7.8529, -7.8431, -7.8332, ..., 12.8525, 12.8546, 12.8548],
7862
           grad_fn=<Unique2Backward0>)
7863 masks dr unique: tensor([-7.8529, -7.8431, -7.8332, ..., 12.8525, 12.8546, 12.8548],
```

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grad fn=<Unique2Backward0>)
7865 Epoch 26/499: 56%
                                90/160 [14:26<11:04, 9.50s/it]print_dice: 0.5455083847045898
        print iou: 0.3750509023666382
7866 masks_dr unique: tensor([-7.7617, -7.7529, -7.7315, ..., 11.7260, 11.7291, 11.7322],
           grad_fn=<Unique2Backward0>)
7868 masks_dr unique: tensor([-7.7617, -7.7529, -7.7315, ..., 11.7260, 11.7291, 11.7322],
           grad fn=<Unique2Backward0>)
7869
7870 Epoch 26/499: 57%
                                91/160 [14:35<11:00, 9.57s/it]print_dice: 0.5352330207824707
        print_iou: 0.3654049038887024
7871 masks_dr unique: tensor([-7.7636, -7.7549, -7.7333, ..., 11.7256, 11.7288, 11.7320],
7872
           grad_fn=<Unique2Backward0>)
7873 masks_dr unique: tensor([-7.7636, -7.7549, -7.7333, ..., 11.7256, 11.7288, 11.7320],
7874
           grad_fn=<Unique2Backward0>)
7875 Epoch 26/499: 57%
                                92/160 [14:45<10:50, 9.57s/it]print dice: 0.5842990875244141
        print_iou: 0.41272780299186707
7876 masks_dr unique: tensor([-7.9011, -7.8918, -7.8846, ..., 12.9455, 12.9462, 12.9476],
           grad fn=<Unique2Backward0>)
7878 masks_dr unique: tensor([-7.9011, -7.8918, -7.8846, ..., 12.9455, 12.9462, 12.9476],
7879
           grad_fn=<Unique2Backward0>)
7880 print_dice: 0.6081685423851013, print_iou: 0.43695560097694397
7881 Epoch 26/499: 58%
    8899, -7.8798, -7.8659, ..., 12.5527, 12.5593, 12.5618],
7882
           grad fn=<Unique2Backward0>)
7883 masks_dr unique: tensor([-7.8899, -7.8798, -7.8659, ..., 12.5527, 12.5593, 12.5618],
           grad_fn=<Unique2Backward0>)
7885 print dice: 0.44936659932136536,
                                     print_iou: 0.28979551792144775
7886 Epoch 26/499: 59% 94/160 [15:04<10:28, 9.52s/it]masks dr unique: tensor([-7.
    7636, -7.7549, -7.7333, ..., 11.7293, 11.7324, 11.7354],
           grad fn=<Unique2Backward0>)
7887
7888 masks_dr unique: tensor([-7.7636, -7.7549, -7.7333, ..., 11.7293, 11.7324, 11.7354],
           grad fn=<Unique2Backward0>)
7890 Epoch 26/499: 59%| 95/160 [15:14<10:18, 9.52s/it]print_dice: 0.5704107284545898
        print_iou: 0.3990032374858856
7891 masks dr unique: tensor([-7.4926, -7.4734, -7.4723, ..., 12.1717, 12.1720, 12.1797],
           grad_fn=<Unique2Backward0>)
7893 masks_dr unique: tensor([-7.4926, -7.4734, -7.4723, ..., 12.1717, 12.1720, 12.1797],
7894
           grad fn=<Unique2Backward0>)
7895 print_dice: 0.5235386490821838, print_iou: 0.35459011793136597
7896 Epoch 26/499: 60%| 96/160 [15:23<10:10, 9.55s/it]masks_dr unique: tensor([-7.
    7657, -7.7571, -7.7355, ..., 11.7243, 11.7276, 11.7309],
           grad_fn=<Unique2Backward0>)
7897
7898 masks_dr unique: tensor([-7.7657, -7.7571, -7.7355, ..., 11.7243, 11.7276, 11.7309],
7899
           grad_fn=<Unique2Backward0>)
7900 Epoch 26/499: 61%
                                97/160 [15:33<10:03, 9.58s/it]print_dice: 0.5428063869476318
        print_iou: 0.3725012242794037
7901 masks_dr unique: tensor([-7.7228, -7.7198, -7.7132, ..., 12.0836, 12.0861, 12.0894],
           grad_fn=<Unique2Backward0>)
7902
7903 masks_dr unique: tensor([-7.7228, -7.7198, -7.7132, ..., 12.0836, 12.0861, 12.0894],
           grad fn=<Unique2Backward0>)
7904
7905 Epoch 26/499: 61%
                               98/160 [15:42<09:53, 9.57s/it]print_dice: 0.5179570317268372
        print iou: 0.3494885563850403
7906 masks_dr unique: tensor([-7.6017, -7.5925, -7.5718, ..., 12.7874, 12.7874, 12.7908],
7907
           grad_fn=<Unique2Backward0>)
7908 masks_dr unique: tensor([-7.6017, -7.5925, -7.5718, ..., 12.7874, 12.7874, 12.7908],
           grad_fn=<Unique2Backward0>)
7910 Epoch 26/499: 62%
                                99/160 [15:52<09:42, 9.55s/it]print_dice: 0.4740847945213318
        print_iou: 0.3106888234615326
7911 masks_dr unique: tensor([-7.3494, -7.3473, -7.3319, ..., 12.4279, 12.4285, 12.4287],
           grad_fn=<Unique2Backward0>)
7913 masks_dr unique: tensor([-7.3494, -7.3473, -7.3319, ..., 12.4279, 12.4285, 12.4287],
7914
           grad_fn=<Unique2Backward0>)
7915 print_dice: 0.5146158337593079, print_iou: 0.3464530408382416
7916 Epoch 26/499: 62%
                                | 100/160 [16:01<09:32, 9.53s/it]masks_dr unique: tensor([-7.
    7645, -7.7560, -7.7346, ..., 11.7261, 11.7296, 11.7331],
7917
           grad_fn=<Unique2Backward0>)
7918 masks_dr unique: tensor([-7.7645, -7.7560, -7.7346, ..., 11.7261, 11.7296, 11.7331],
7919
           grad fn=<Unique2Backward0>)
7920 Epoch 26/499: 63%
                                | 101/160 [16:11<09:24, 9.58s/it]print_dice: 0.
    5039305686950684,
                       print iou: 0.3368363380432129
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[100/160] eta: 0:09:37
                               time: 9.5588 data: 0.0004
7921
7922 masks_dr unique: tensor([-7.4045, -7.3890, -7.3814, ..., 11.9623, 11.9633, 11.9657],
           grad fn=<Unique2Backward0>)
7924 masks dr unique: tensor([-7.4045, -7.3890, -7.3814, ..., 11.9623, 11.9633, 11.9657],
           grad_fn=<Unique2Backward0>)
7925
7926 Epoch 26/499: 64%| | 102/160 [16:21<09:17, 9.61s/it]print_dice: 0.
    5360807180404663, print_iou: 0.36619555950164795
7927 masks dr unique: tensor([-7.3892, -7.3820, -7.3808, ..., 11.9356, 11.9360, 11.9420],
           grad_fn=<Unique2Backward0>)
7928
7929 masks_dr unique: tensor([-7.3892, -7.3820, -7.3808, ..., 11.9356, 11.9360, 11.9420],
7930
           grad fn=<Unique2Backward0>)
7931 print dice: 0.48917490243911743, print iou: 0.32377997040748596
7932 Epoch 26/499: 64%| 103/160 [16:30<09:07, 9.61s/it]masks_dr unique: tensor([-7.
    9640, -7.9555, -7.9507, ..., 12.4560, 12.4608, 12.4650],
7933
           grad fn=<Unique2Backward0>)
7934 masks_dr unique: tensor([-7.9640, -7.9555, -7.9507, ..., 12.4560, 12.4608, 12.4650],
           grad_fn=<Unique2Backward0>)
7936 Epoch 26/499: 65%
                                | 104/160 [16:40<08:55, 9.56s/it]print_dice: 0.
                      print_iou: 0.36168450117111206
    5312309861183167,
7937 masks_dr unique: tensor([-7.7663, -7.7579, -7.7366, ..., 11.7323, 11.7355, 11.7387],
7938
           grad_fn=<Unique2Backward0>)
7939 masks_dr unique: tensor([-7.7663, -7.7579, -7.7366, ..., 11.7323, 11.7355, 11.7387],
           grad fn=<Unique2Backward0>)
7940
7941 print_dice: 0.5675577521324158, print_iou: 0.39621686935424805
7942 Epoch 26/499: 66%| 105/160 [16:49<08:43, 9.51s/it]masks_dr unique: tensor([-8.
    0198, -8.0059, -8.0027, ..., 13.1702, 13.1721, 13.1726],
           grad fn=<Unique2Backward0>)
7943
7944 masks_dr unique: tensor([-8.0198, -8.0059, -8.0027, ..., 13.1702, 13.1721, 13.1726],
           grad_fn=<Unique2Backward0>)
7945
7946 Epoch 26/499: 66\%
    5871952176094055, print_iou: 0.4156237840652466
7947 masks dr unique: tensor([-7.7009, -7.6977, -7.6844, ..., 13.1427, 13.1446, 13.1492],
           grad fn=<Unique2Backward0>)
7949 masks_dr unique: tensor([-7.7009, -7.6977, -7.6844, ..., 13.1427, 13.1446, 13.1492],
7950
           grad_fn=<Unique2Backward0>)
7951 Epoch 26/499: 67% | 107/160 [17:08<08:26, 9.55s/it]print_dice: 0.
    5506682991981506, print_iou: 0.37994635105133057
7952 masks_dr unique: tensor([-7.5257, -7.5167, -7.5056, ..., 12.0056, 12.0084, 12.0103],
           grad_fn=<Unique2Backward0>)
7953
7954 masks_dr unique: tensor([-7.5257, -7.5167, -7.5056, ..., 12.0056, 12.0084, 12.0103],
7955
           grad fn=<Unique2Backward0>)
7956 Epoch 26/499: 68\%
    5986526012420654, print_iou: 0.4271978437900543
7957 masks_dr unique: tensor([-7.6680, -7.6541, -7.6517, ..., 12.3134, 12.3180, 12.3206],
           grad_fn=<Unique2Backward0>)
7958
7959 masks_dr unique: tensor([-7.6680, -7.6541, -7.6517, ..., 12.3134, 12.3180, 12.3206],
           grad_fn=<Unique2Backward0>)
7961 print_dice: 0.5315729975700378, print_iou: 0.3620016276836395
7962 Epoch 26/499: 68% | 109/160 [17:27<08:06, 9.54s/it]masks_dr unique: tensor([-7.
    5935, -7.5798, -7.5736, ..., 11.7054, 11.7126, 11.7176],
7963
           grad_fn=<Unique2Backward0>)
7964 masks dr unique: tensor([-7.5935, -7.5798, -7.5736, ..., 11.7054, 11.7126, 11.7176],
7965
           grad_fn=<Unique2Backward0>)
7966 print_dice: 0.5335603952407837, print_iou: 0.3638475239276886
7967 Epoch 26/499: 69%| | | 110/160 [17:37<07:58, 9.57s/it]masks_dr unique: tensor([-7.
    5076, -7.4923, -7.4908, ..., 11.4920, 11.4954, 11.4976],
           grad_fn=<Unique2Backward0>)
7968
7969 masks_dr unique: tensor([-7.5076, -7.4923, -7.4908, ..., 11.4920, 11.4954, 11.4976],
           grad fn=<Unique2Backward0>)
7971 Epoch 26/499: 69% | 111/160 [17:47<07:50, 9.61s/it]print_dice: 0.
    4895148277282715, print_iou: 0.32407787442207336
7972 masks dr unique: tensor([-7.7704, -7.7622, -7.7412, ..., 11.7319, 11.7351, 11.7389],
           grad_fn=<Unique2Backward0>)
7973
7974 masks_dr unique: tensor([-7.7704, -7.7622, -7.7412, ..., 11.7319, 11.7351, 11.7389],
           grad fn=<Unique2Backward0>)
7975
7976 Epoch 26/499: 70%
                                | 112/160 [17:56<07:39, 9.58s/it]print dice: 0.
                       print_iou: 0.4334797263145447
    6047936677932739,
7977 masks_dr unique: tensor([-7.9707, -7.9591, -7.9526, ..., 12.0036, 12.0128, 12.0166],
7978
           grad fn=<Unique2Backward0>)
```

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7979 masks_dr unique: tensor([-7.9707, -7.9591, -7.9526, ..., 12.0036, 12.0128, 12.0166],
           grad fn=<Unique2Backward0>)
7981 Epoch 26/499: 71%
                               | 113/160 [18:06<07:27, 9.53s/it]print dice: 0.
                       print iou: 0.29557785391807556
    45628729462623596,
7982 masks_dr unique: tensor([-7.6002, -7.5885, -7.5754, ..., 11.6433, 11.6508, 11.6540],
           grad fn=<Unique2Backward0>)
7984 masks_dr unique: tensor([-7.6002, -7.5885, -7.5754, ..., 11.6433, 11.6508, 11.6540],
7985
           grad_fn=<Unique2Backward0>)
7986 Epoch 26/499: 71% | 114/160 [18:15<07:20, 9.57s/it]print_dice: 0.
    4850759506225586, print_iou: 0.3201982080936432
7987 masks_dr unique: tensor([-7.9586, -7.9515, -7.9351, ..., 12.8684, 12.8699, 12.8702],
           grad fn=<Unique2Backward0>)
7988
7989 masks_dr unique: tensor([-7.9586, -7.9515, -7.9351, ..., 12.8684, 12.8699, 12.8702],
           grad fn=<Unique2Backward0>)
7991 print dice: 0.588498055934906,
                                   print_iou: 0.4169303774833679
8358, -7.8310, -7.8128, ..., 12.1793, 12.1853, 12.1903],
           grad_fn=<Unique2Backward0>)
7994 masks_dr unique: tensor([-7.8358, -7.8310, -7.8128, ..., 12.1793, 12.1853, 12.1903],
           grad_fn=<Unique2Backward0>)
5283218622207642, print_iou: 0.3589928150177002
7997 masks dr unique: tensor([-7.8849, -7.8807, -7.8802, ..., 13.2135, 13.2158, 13.2187],
7998
           grad fn=<Unique2Backward0>)
7999 masks dr unique: tensor([-7.8849, -7.8807, -7.8802, ..., 13.2135, 13.2158, 13.2187],
8000
           grad_fn=<Unique2Backward0>)
8001 print dice: 0.518113374710083, print iou: 0.3496309220790863
8002 Epoch 26/499: 73%| | 117/160 [18:44<06:50, 9.55s/it]masks_dr unique: tensor([-7.
    7774, -7.7667, -7.7598, ..., 11.9046, 11.9096, 11.9142],
           grad fn=<Unique2Backward0>)
8004 masks dr unique: tensor([-7.7774, -7.7667, -7.7598, ..., 11.9046, 11.9096, 11.9142],
8005
           grad_fn=<Unique2Backward0>)
8006 Epoch 26/499: 74% | 118/160 [18:54<06:41, 9.56s/it]print_dice: 0.
    5856094360351562, print_iou: 0.4140365719795227
8007 masks dr unique: tensor([-7.7727, -7.7646, -7.7436, ..., 11.7378, 11.7414, 11.7450],
           grad_fn=<Unique2Backward0>)
8009 masks_dr unique: tensor([-7.7727, -7.7646, -7.7436, ..., 11.7378, 11.7414, 11.7450],
           grad_fn=<Unique2Backward0>)
8010
8011 Epoch 26/499: 74% | 119/160 [19:03<06:29, 9.51s/it]print_dice: 0.
    5681055188179016, print_iou: 0.39675092697143555
8012 masks_dr unique: tensor([-7.8478, -7.8345, -7.8321, ..., 13.0516, 13.0522, 13.0534],
           grad_fn=<Unique2Backward0>)
8014 masks_dr unique: tensor([-7.8478, -7.8345, -7.8321, ..., 13.0516, 13.0522, 13.0534],
           grad fn=<Unique2Backward0>)
8016 print_dice: 0.5105242133140564, print_iou: 0.3427543044090271
8017 Epoch 26/499: 75%| | 120/160 [19:13<06:22, 9.57s/it]masks_dr unique: tensor([-7.
    7051, -7.6810, -7.6757, ..., 12.2032, 12.2047, 12.2074],
8018
           grad_fn=<Unique2Backward0>)
8019 masks_dr unique: tensor([-7.7051, -7.6810, -7.6757, ..., 12.2032, 12.2047, 12.2074],
           grad fn=<Unique2Backward0>)
8021 print dice: 0.5441544055938721, print iou: 0.3737720549106598
8022 Epoch 26/499: 76%| | 121/160 [19:22<06:14, 9.60s/it]masks_dr unique: tensor([-7.
    5628, -7.5614, -7.5545, ..., 13.1013, 13.1020, 13.1025],
8023
           grad_fn=<Unique2Backward0>)
8024 masks_dr unique: tensor([-7.5628, -7.5614, -7.5545, ..., 13.1013, 13.1020, 13.1025],
8025
           grad_fn=<Unique2Backward0>)
8026 print dice: 0.5616076588630676, print iou: 0.3904411792755127
                       122/160 [19:32<06:05, 9.63s/it]masks_dr unique: tensor([-7.
8027 Epoch 26/499: 76%
    8358, -7.8244, -7.8143, ..., 12.7085, 12.7102, 12.7102],
8028
           grad_fn=<Unique2Backward0>)
8029 masks_dr unique: tensor([-7.8358, -7.8244, -7.8143, ..., 12.7085, 12.7102, 12.7102],
8030
           grad_fn=<Unique2Backward0>)
8031 print dice: 0.49613383412361145,
                                     print iou: 0.32990556955337524
8032 Epoch 26/499: 77%| | 123/160 [19:42<05:54, 9.57s/it]masks_dr unique: tensor([-7.
    9928, -7.9636, -7.9617, ..., 12.0522, 12.0524, 12.0551],
8033
           grad_fn=<Unique2Backward0>)
8034 masks_dr unique: tensor([-7.9928, -7.9636, -7.9617, ..., 12.0522, 12.0524, 12.0551],
           grad_fn=<Unique2Backward0>)
8035
8036 print dice: 0.5510870814323425, print iou: 0.3803451955318451
```

```
8037 Epoch 26/499: 78% | 124/160 [19:51<05:44, 9.58s/it]masks dr unique: tensor([-7.
    2827, -7.2665, -7.2577, ..., 11.8170, 11.8193, 11.8216],
           grad fn=<Unique2Backward0>)
8039 masks dr unique: tensor([-7.2827, -7.2665, -7.2577, ..., 11.8170, 11.8193, 11.8216],
           grad_fn=<Unique2Backward0>)
8041 print_dice: 0.5405362844467163, print_iou: 0.3703663945198059
8042 Epoch 26/499: 78%| | 125/160 [20:01<05:35, 9.57s/it]masks_dr unique: tensor([-7.
    3184, -7.3097, -7.3007, ..., 12.0575, 12.0637, 12.0696],
8043
           grad_fn=<Unique2Backward0>)
8044 masks_dr unique: tensor([-7.3184, -7.3097, -7.3007, ..., 12.0575, 12.0637, 12.0696],
           grad_fn=<Unique2Backward0>)
8046 Epoch 26/499: 79% | 126/160 [20:10<05:26, 9.59s/it]print_dice: 0.
    5062814950942993, print_iou: 0.3389403522014618
8047 masks_dr unique: tensor([-7.3268, -7.3178, -7.3024, ..., 12.5303, 12.5325, 12.5358],
8048
           grad fn=<Unique2Backward0>)
8049 masks_dr unique: tensor([-7.3268, -7.3178, -7.3024, ..., 12.5303, 12.5325, 12.5358],
           grad fn=<Unique2Backward0>)
8051 print_dice: 0.5086819529533386, print_iou: 0.34109553694725037
8052 Epoch 26/499: 79%| | 127/160 [20:20<05:14, 9.54s/it]masks_dr unique: tensor([-7.
    8068, -7.8029, -7.8014, ..., 12.1560, 12.1582, 12.1600],
8053
           grad_fn=<Unique2Backward0>)
8054 masks_dr unique: tensor([-7.8068, -7.8029, -7.8014, ..., 12.1560, 12.1582, 12.1600],
8055
           grad fn=<Unique2Backward0>)
8056 print_dice: 0.4624156951904297, print_iou: 0.30074170231819153
8057 Epoch 26/499: 80%| | 128/160 [20:29<05:04, 9.52s/it]masks_dr unique: tensor([-7.
    5511, -7.5409, -7.5291, ..., 11.8784, 11.8808, 11.8853],
8058
           grad fn=<Unique2Backward0>)
8059 masks_dr unique: tensor([-7.5511, -7.5409, -7.5291, ..., 11.8784, 11.8808, 11.8853],
           grad_fn=<Unique2Backward0>)
8060
8061 Epoch 26/499: 81% | 129/160 [20:39<04:55, 9.54s/it]print_dice: 0.
    5385178327560425, print_iou: 0.3684737980365753
8062 masks_dr unique: tensor([-7.8635, -7.8545, -7.8455, ..., 13.2779, 13.2798, 13.2798],
           grad fn=<Unique2Backward0>)
8064 masks_dr unique: tensor([-7.8635, -7.8545, -7.8455, ..., 13.2779, 13.2798, 13.2798],
8065
           grad_fn=<Unique2Backward0>)
8066 print_dice: 0.5826845765113831, print_iou: 0.4111184775829315
8067 Epoch 26/499: 81%| | 130/160 [20:49<04:48, 9.61s/it]masks_dr unique: tensor([-7.
    9902, -7.9901, -7.9804, ..., 13.2236, 13.2259, 13.2292],
8068
           grad_fn=<Unique2Backward0>)
8069 masks_dr unique: tensor([-7.9902, -7.9901, -7.9804, ..., 13.2236, 13.2259, 13.2292],
           grad fn=<Unique2Backward0>)
8070
8071 Epoch 26/499: 82%| | 131/160 [20:58<04:39, 9.64s/it]print_dice: 0.
    4738507568836212, print_iou: 0.31048783659935
8072 masks_dr unique: tensor([-7.3792, -7.3516, -7.3512, ..., 12.0202, 12.0228, 12.0229],
8073
           grad_fn=<Unique2Backward0>)
8074 masks_dr unique: tensor([-7.3792, -7.3516, -7.3512, ..., 12.0202, 12.0228, 12.0229],
           grad_fn=<Unique2Backward0>)
8076 print_dice: 0.5078755021095276, print_iou: 0.3403707444667816
8077 Epoch 26/499: 82%| | 132/160 [21:08<04:29, 9.62s/it]masks_dr unique: tensor([-7.
    5653, -7.5645, -7.5568, ..., 13.1217, 13.1219, 13.1230],
8078
           grad_fn=<Unique2Backward0>)
8079 masks dr unique: tensor([-7.5653, -7.5645, -7.5568, ..., 13.1217, 13.1219, 13.1230],
           grad_fn=<Unique2Backward0>)
8080
8081 Epoch 26/499: 83% | 133/160 [21:17<04:19, 9.60s/it]print_dice: 0.
    5252923965454102, print_iou: 0.35620105266571045
8082 masks_dr unique: tensor([-7.7731, -7.7650, -7.7442, ..., 11.7311, 11.7313, 11.7347],
           grad_fn=<Unique2Backward0>)
8083
8084 masks_dr unique: tensor([-7.7731, -7.7650, -7.7442, ..., 11.7311, 11.7313, 11.7347],
           grad_fn=<Unique2Backward0>)
8086 print_dice: 0.5340915322303772,
                                     print_iou: 0.3643416464328766
8087 Epoch 26/499: 84%| 84%| | 134/160 [21:27<04:10, 9.65s/it]masks_dr unique: tensor([-7.
    6327, -7.6294, -7.6071, ..., 11.8751, 11.8752, 11.8826],
           grad_fn=<Unique2Backward0>)
8888
8089 masks dr unique: tensor([-7.6327, -7.6294, -7.6071, ..., 11.8751, 11.8752, 11.8826],
           grad_fn=<Unique2Backward0>)
8090
8091 print dice: 0.48543211817741394,
                                      print_iou: 0.3205086588859558
8092 Epoch 26/499: 84%| | 135/160 [21:37<04:00, 9.64s/it]masks_dr unique: tensor([-7.
    9559, -7.9493, -7.9392, ..., 13.0853, 13.0874, 13.0877],
8093
           grad fn=<Unique2Backward0>)
```

```
8094 masks_dr unique: tensor([-7.9559, -7.9493, -7.9392, ..., 13.0853, 13.0874, 13.0877],
                grad fn=<Unique2Backward0>)
                                               | 136/160 [21:46<03:50, 9.59s/it]print_dice: 0.596246063709259
8096 Epoch 26/499: 85%
            print_iou: 0.4247511327266693
8097 masks_dr unique: tensor([-7.8247, -7.8142, -7.8016, ..., 12.0138, 12.0155, 12.0169],
                grad fn=<Unique2Backward0>)
8099 masks_dr unique: tensor([-7.8247, -7.8142, -7.8016, ..., 12.0138, 12.0155, 12.0169],
8100
                grad_fn=<Unique2Backward0>)
8101 Epoch 26/499: 86% | 137/160 [21:56<03:40, 9.59s/it]print_dice: 0.
      5521516799926758, print_iou: 0.38136017322540283
8102 masks dr unique: tensor([-7.7640, -7.7559, -7.7479, ..., 12.9818, 12.9828, 12.9841],
                grad_fn=<Unique2Backward0>)
8103
8104 masks_dr unique: tensor([-7.7640, -7.7559, -7.7479, ..., 12.9818, 12.9828, 12.9841],
                 grad fn=<Unique2Backward0>)
8105
8106 print_dice: 0.584932267665863.
                                                     print iou: 0.4133598804473877
8107 Epoch 26/499: 86%|■■■■■■ | 138/160 [22:05<03:29, 9.54s/it]masks_dr unique: tensor([-7.
      8582, -7.8569, -7.8459, ..., 13.1885, 13.1910, 13.1911],
8108
                grad_fn=<Unique2Backward0>)
8109 masks_dr unique: tensor([-7.8582, -7.8569, -7.8459, ..., 13.1885, 13.1910, 13.1911],
                grad_fn=<Unique2Backward0>)
8111 Epoch 26/499: 87% | 139/160 [22:15<03:21, 9.59s/it]print_dice: 0.
                                 print_iou: 0.37109261751174927
      5413093566894531,
8112 masks_dr unique: tensor([-7.7718, -7.7637, -7.7430, ..., 11.7390, 11.7423, 11.7460],
                grad fn=<Unique2Backward0>)
8113
8114 masks_dr unique: tensor([-7.7718, -7.7637, -7.7430, ..., 11.7390, 11.7423, 11.7460],
                grad fn=<Unique2Backward0>)
8115
8116 print dice: 0.5423449873924255, print_iou: 0.3720667362213135
8117 Epoch 26/499: 88%|■ 10 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 
      7707, -7.7627, -7.7419, ..., 11.7389, 11.7424, 11.7459],
                 grad_fn=<Unique2Backward0>)
8118
8119 masks_dr unique: tensor([-7.7707, -7.7627, -7.7419, ..., 11.7389, 11.7424, 11.7459],
8120
                grad_fn=<Unique2Backward0>)
8121 print_dice: 0.5641687512397766, print_iou: 0.3929213285446167
8122 Epoch 26/499: 88%| 88%| 141/160 [22:34<03:01, 9.54s/it]masks_dr unique: tensor([-7.
      7691, -7.7611, -7.7404, ..., 11.7304, 11.7337, 11.7372],
8123
                grad_fn=<Unique2Backward0>)
8124 masks_dr unique: tensor([-7.7691, -7.7611, -7.7404, ..., 11.7304, 11.7337, 11.7372],
8125
                grad_fn=<Unique2Backward0>)
8126 print_dice: 0.5401007533073425, print_iou: 0.3699575364589691
8127 Epoch 26/499: 89%| 89%| 142/160 [22:43<02:50, 9.45s/it]masks_dr unique: tensor([-7.
       5964, -7.5905, -7.5810, ..., 12.3015, 12.3068, 12.3108],
8128
                grad_fn=<Unique2Backward0>)
8129 masks_dr unique: tensor([-7.5964, -7.5905, -7.5810, ..., 12.3015, 12.3068, 12.3108],
                 grad_fn=<Unique2Backward0>)
8131 print_dice: 0.50441974401474,
                                                  print_iou: 0.33727359771728516
8132 Epoch 26/499: 89%| 89%| 143/160 [22:53<02:41, 9.47s/it]masks_dr unique: tensor([-7.
      7691, -7.7611, -7.7403, ..., 11.7352, 11.7367, 11.7402],
8133
                grad_fn=<Unique2Backward0>)
8134 masks_dr unique: tensor([-7.7691, -7.7611, -7.7403, ..., 11.7352, 11.7367, 11.7402],
                grad_fn=<Unique2Backward0>)
8136 Epoch 26/499: 90% | 144/160 [23:02<02:32, 9.53s/it]print_dice: 0.
       5269309282302856,
                                 print_iou: 0.3577095866203308
8137 masks_dr unique: tensor([-7.8570, -7.8459, -7.8355, ..., 12.3672, 12.3691, 12.3728],
                grad_fn=<Unique2Backward0>)
8138
8139 masks_dr unique: tensor([-7.8570, -7.8459, -7.8355, ..., 12.3672, 12.3691, 12.3728],
                grad_fn=<Unique2Backward0>)
8140
8141 Epoch 26/499: 91% | 145/160 [23:12<02:23, 9.54s/it]print_dice: 0.
      5929028987884521,
                                   print_iou: 0.42136603593826294
8142 masks_dr unique: tensor([-7.6190, -7.6176, -7.6133, ..., 13.1925, 13.1931, 13.1969],
                 grad_fn=<Unique2Backward0>)
8143
8144 masks_dr unique: tensor([-7.6190, -7.6176, -7.6133, ..., 13.1925, 13.1931, 13.1969],
                 grad fn=<Unique2Backward0>)
8145
8146 Epoch 26/499: 91%
                                              || 146/160 [23:21<02:12, 9.47s/it]print_dice: 0.
      5598080158233643, print_iou: 0.38870376348495483
8147 masks_dr unique: tensor([-7.6809, -7.6778, -7.6642, ..., 12.2102, 12.2104, 12.2105],
                 grad_fn=<Unique2Backward0>)
8148
8149 masks_dr unique: tensor([-7.6809, -7.6778, -7.6642, ..., 12.2102, 12.2104, 12.2105],
                 grad_fn=<Unique2Backward0>)
8150
8151 Epoch 26/499: 92%| | 147/160 [23:31<02:02, 9.46s/it]print_dice: 0.
```

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print_iou: 0.3762655258178711
8151 5467920899391174,
8152 masks_dr unique: tensor([-7.7692, -7.7612, -7.7404, ..., 11.7376, 11.7410, 11.7447],
           grad fn=<Unique2Backward0>)
8154 masks_dr unique: tensor([-7.7692, -7.7612, -7.7404, ..., 11.7376, 11.7410, 11.7447],
           grad_fn=<Unique2Backward0>)
8156 print_dice: 0.5062940716743469, print_iou: 0.33895164728164673
8157 Epoch 26/499: 92%| | 148/160 [23:40<01:54, 9.52s/it]masks_dr unique: tensor([-7.
    7375, -7.7307, -7.7160, ..., 12.1975, 12.2026, 12.2071],
8158
           grad_fn=<Unique2Backward0>)
8159 masks_dr unique: tensor([-7.7375, -7.7307, -7.7160, ..., 12.1975, 12.2026, 12.2071],
           grad_fn=<Unique2Backward0>)
8160
8161 Epoch 26/499: 93% | 149/160 [23:50<01:44, 9.54s/it]print dice: 0.
    5928045511245728, print_iou: 0.42126670479774475
8162 masks_dr unique: tensor([-7.5739, -7.5735, -7.5643, ..., 13.1390, 13.1396, 13.1407],
           grad_fn=<Unique2Backward0>)
8163
8164 masks_dr unique: tensor([-7.5739, -7.5735, -7.5643, ..., 13.1390, 13.1396, 13.1407],
           grad_fn=<Unique2Backward0>)
5604486465454102,
                      print_iou: 0.3893217444419861
8167 masks_dr unique: tensor([-8.0392, -8.0279, -8.0202, ..., 12.5650, 12.5735, 12.5777],
           grad_fn=<Unique2Backward0>)
8168
8169 masks_dr unique: tensor([-8.0392, -8.0279, -8.0202, ..., 12.5650, 12.5735, 12.5777],
           grad fn=<Unique2Backward0>)
8170
8171 print_dice: 0.5141977071762085, print_iou: 0.34607410430908203
8172 Epoch 26/499: 94%| 94%| 151/160 [24:09<01:25, 9.50s/it]masks_dr unique: tensor([-7.
    7671, -7.7603, -7.7546, ..., 12.1189, 12.1239, 12.1290],
8173
           grad_fn=<Unique2Backward0>)
8174 masks_dr unique: tensor([-7.7671, -7.7603, -7.7546, ..., 12.1189, 12.1239, 12.1290],
           grad_fn=<Unique2Backward0>)
8175
8176 Epoch 26/499: 95% | 152/160 [24:19<01:16, 9.57s/it]print_dice: 0.
    4769672155380249, print_iou: 0.31316938996315
8177 masks dr unique: tensor([-7.7693, -7.7613, -7.7405, ..., 11.7387, 11.7422, 11.7458],
           grad_fn=<Unique2Backward0>)
8179 masks_dr unique: tensor([-7.7693, -7.7613, -7.7405, ..., 11.7387, 11.7422, 11.7458],
8180
           grad fn=<Unique2Backward0>)
8181 Epoch 26/499: 96%| | | 153/160 [24:28<01:06, 9.57s/it]print_dice: 0.
    44041964411735535, print_iou: 0.28239622712135315
8182 masks dr unique: tensor([-7.7709, -7.7630, -7.7425, ..., 11.7344, 11.7377, 11.7413],
8183
           grad_fn=<Unique2Backward0>)
8184 masks_dr unique: tensor([-7.7709, -7.7630, -7.7425, ..., 11.7344, 11.7377, 11.7413],
           grad fn=<Unique2Backward0>)
8185
5440778136253357, print_iou: 0.37369975447654724
8187 masks_dr unique: tensor([-7.8580, -7.8562, -7.8430, ..., 13.2518, 13.2534, 13.2562],
8188
           grad_fn=<Unique2Backward0>)
8189 masks_dr unique: tensor([-7.8580, -7.8562, -7.8430, ..., 13.2518, 13.2534, 13.2562],
           grad_fn=<Unique2Backward0>)
8191 Epoch 26/499: 97% | 155/160 [24:47<00:47, 9.49s/it]print_dice: 0.
    5142743587493896, print_iou: 0.34614357352256775
8192 masks_dr unique: tensor([-7.6569, -7.6547, -7.6416, ..., 13.1981, 13.1999, 13.2023],
           grad fn=<Unique2Backward0>)
8193
8194 masks_dr unique: tensor([-7.6569, -7.6547, -7.6416, ..., 13.1981, 13.1999, 13.2023],
8195
           grad fn=<Unique2Backward0>)
8196 Epoch 26/499: 98% | 156/160 [24:56<00:37, 9.49s/it]print dice: 0.
    5037782788276672, print_iou: 0.3367002606391907
8197 masks_dr unique: tensor([-7.7675, -7.7593, -7.7466, ..., 11.7700, 11.7754, 11.7794],
           grad_fn=<Unique2Backward0>)
8198
8199 masks_dr unique: tensor([-7.7675, -7.7593, -7.7466, ..., 11.7700, 11.7754, 11.7794],
           grad_fn=<Unique2Backward0>)
8201 print_dice: 0.5059007406234741,
                                    print_iou: 0.33859917521476746
8202 Epoch 26/499: 98% 98% 157/160 [25:06<00:28, 9.46s/it]masks dr unique: tensor([-7.
    5149, -7.5044, -7.4945, ..., 12.0590, 12.0659, 12.0696],
           grad_fn=<Unique2Backward0>)
8203
8204 masks dr unique: tensor([-7.5149, -7.5044, -7.4945, ..., 12.0590, 12.0659, 12.0696],
           grad fn=<Unique2Backward0>)
8205
                              158/160 [25:16<00:19, 9.52s/it]print_dice: 0.613700270652771
8206 Epoch 26/499: 99%
        print iou: 0.4426894187927246
8207 masks_dr unique: tensor([-7.5086, -7.5082, -7.5033, ..., 12.1343, 12.1349, 12.1424],
           grad fn=<Unique2Backward0>)
8208
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8209 masks dr unique: tensor([-7.5086, -7.5082, -7.5033, ..., 12.1343, 12.1349, 12.1424],
           grad fn=<Unique2Backward0>)
8211 Epoch 26/499: 99% | 159/160 [25:25<00:09, 9.56s/it]print dice: 0.
    5230739116668701,
                       print_iou: 0.35416388511657715
8212 masks_dr unique: tensor([-7.6645, -7.6643, -7.6530, ..., 11.7047, 11.7110, 11.7131],
8213
           grad_fn=<Unique2Backward0>)
8214 masks dr unique: tensor([-7.6645, -7.6643, -7.6530, ..., 11.7047, 11.7110, 11.7131],
           grad_fn=<Unique2Backward0>)
8215
8216 Epoch 26/499: 100% | 100% | 160/160 [25:35<00:00, 9.54s/it]print_dice: 0.
    5825675129890442, print_iou: 0.41100195050239563
      [159/160] eta: 0:00:09
8217
                                time: 9.5115 data: 0.0004
8218 Epoch 26/499: 100% | 160/160 [25:35<00:00, 9.60s/it]
8219 Total time: 0:25:35 (9.5986 s / it)
8220 Averaged stats: training loss: -336.1446 (-336.1446) loss mask: -336.1680 (-336.1680)
    loss_dice: 0.0234 (0.0234)
      0%|
8221
                   | 0/12 [00:00<?, ?it/s]Net parameter norm: 1054.4246139002498
8222 Validating...
8223 Valid_dataloader len: 12
8224 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.0892e-04, 2.
    3013e-04, 2.6982e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
8225
8226 masks_dr unique: tensor([4.2288e-04, 4.3553e-04, 4.4349e-04, ..., 1.0000e+00, 1.0000e+00,
8227
            1.0000e+00], grad_fn=<Unique2Backward0>)
8228 print_dice: 0.5612580180168152, print_iou: 0.3901033103466034
                              time: 9.5438 data: 3.9161
      [ 0/12] eta: 0:01:54
                   | 1/12 [00:09<01:44, 9.54s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
8230
      8%
    ]) unique sigmoid values: tensor([2.8488e-04, 3.2295e-04, 3.4258e-04, ..., 1.0000e+00, 1.
    0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
8231
8232 masks_dr unique: tensor([5.4823e-04, 5.4965e-04, 5.5108e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
8234 print_dice: 0.6084697246551514, print_iou: 0.43726658821105957
                   | 2/12 [00:15<01:14, 7.46s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.2373e-04, 3.9998e-04, 4.0165e-04, ..., 1.0000e+00, 1.
    0000e+00,
8236
            1.0000e+00], grad_fn=<Unique2Backward0>)
8237 masks_dr unique: tensor([6.0384e-04, 6.0536e-04, 6.0688e-04, ..., 1.0000e+00, 1.0000e+00,
8238
            1.0000e+00], grad_fn=<Unique2Backward0>)
8239 print_dice: 0.5301220417022705, print_iou: 0.3606571853160858
                   | 3/12 [00:21<01:00, 6.68s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.2420e-04, 3.3281e-04, 3.3394e-04, ..., 9.9999e-01, 9.
    9999e-01,
8241
            9.9999e-01], grad_fn=<Unique2Backward0>)
8242 masks_dr unique: tensor([3.3815e-04, 3.4694e-04, 3.5573e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
8243
8244 print_dice: 0.5184606909751892, print_iou: 0.3499473035335541
                  4/12 [00:27<00:51, 6.47s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.2377e-04, 3.3201e-04, 3.3406e-04, ..., 9.9999e-01, 9.
    9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
8246
8247 masks_dr unique: tensor([4.8866e-04, 4.9237e-04, 4.9392e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
8248
8249 42%
                   | 5/12 [00:33<00:43, 6.27s/it]print_dice: 0.5783725380897522, print_iou: 0.
    4068383276462555
8250 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.4992e-04, 2.
    7148e-04, 3.0073e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
8251
8252 masks_dr unique: tensor([4.4379e-04, 4.4455e-04, 4.5177e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
8254 print_dice: 0.5089558362960815, print_iou: 0.34134188294410706
                   | 6/12 [00:39<00:36, 6.11s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([3.2437e-04, 3.3351e-04, 3.3442e-04, ..., 9.9999e-01, 9.
    9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
8256
8257 masks_dr unique: tensor([3.3835e-04, 3.4717e-04, 3.5599e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
8258
8259 print dice: 0.44140979647636414, print iou: 0.2832109332084656
                   7/12 [00:45<00:30, 6.15s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
            ]) unique sigmoid values: tensor([2.2854e-04, 2.5577e-04, 2.6147e-04, ..., 1.0000e+00, 1.
```

```
8260 0000e+00,
8261
            1.0000e+00], grad_fn=<Unique2Backward0>)
8262 masks dr unique: tensor([4.0247e-04, 4.0413e-04, 4.0610e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
8263
                   | 8/12 [00:50<00:23, 5.96s/it]print_dice: 0.5470372438430786, print_iou: 0.
8264 67%
    3764977753162384
8265 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.1344e-04, 4.
    1880e-04, 4.2663e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
8266
8267 masks_dr unique: tensor([6.2090e-04, 6.2367e-04, 6.2681e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
8268
                  | 9/12 [00:57<00:18, 6.11s/it]print_dice: 0.5624827742576599, print_iou: 0.
8269 75%
    3912877142429352
8270 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.2428e-04, 3.
    3193e-04, 3.3423e-04, ..., 9.9999e-01, 9.9999e-01,
8271
            9.9999e-01], grad_fn=<Unique2Backward0>)
8272 masks_dr unique: tensor([4.8901e-04, 4.9271e-04, 4.9397e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
8273
            | 10/12 [01:03<00:12, 6.00s/it]print_dice: 0.5750371813774109, print_iou: 0
8274 83%
     .4035453796386719
8275 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.2549e-04, 3.
    9137e-04, 3.9556e-04, ..., 1.0000e+00, 1.0000e+00,
8276
            1.0000e+00], grad_fn=<Unique2Backward0>)
8277 masks_dr unique: tensor([5.6960e-04, 5.7182e-04, 5.7409e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
8279 print dice: 0.6168007254600525, print iou: 0.4459232687950134
          ]) unique sigmoid values: tensor([2.5348e-04, 2.7218e-04, 3.2063e-04, ..., 1.0000e+00, 1.
    0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
8281
8282 masks_dr unique: tensor([4.9687e-04, 4.9719e-04, 4.9857e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
8283
8284 100%
                   | 12/12 [01:14<00:00, 5.81s/it]print_dice: 0.5830786824226379, print_iou: 0
     .4115109443664551
8285
      [11/12] eta: 0:00:06
                              time: 6.2015 data: 0.3268
8286 Total time: 0:01:14 (6.2498 s / it)
8287 =============
8288 Averaged stats:
8289 100%
             | | | | | | | | 12/12 [01:14<00:00, 6.25s/it]
              27 learning rate:
8290 epoch:
                                   1e-07
                    0%
                                 | 0/160 [00:00<?, ?it/s]masks_dr unique: tensor([-7.4216, -7.
8291 Epoch 27/499:
    4176, -7.4150, ..., 12.3907, 12.3921, 12.3934],
8292
           grad_fn=<Unique2Backward0>)
8293 masks_dr unique: tensor([-7.4216, -7.4176, -7.4150, ..., 12.3907, 12.3921, 12.3934],
8294
           grad_fn=<Unique2Backward0>)
8295 print_dice: 0.4746606945991516, print_iou: 0.3111836910247803
     [ 0/160] eta: 0:39:22
                                time: 14.7657 data: 5.2662
                                 | 1/160 [00:14<39:07, 14.77s/it]masks_dr unique: tensor([-7.
8297 Epoch 27/499:
                    1%|
    8170, -7.8095, -7.8021, ..., 12.8723, 12.8738, 12.8748],
8298
           grad_fn=<Unique2Backward0>)
8299 masks_dr unique: tensor([-7.8170, -7.8095, -7.8021, ..., 12.8723, 12.8738, 12.8748],
8300
           grad fn=<Unique2Backward0>)
8301 print_dice: 0.5426229238510132, print_iou: 0.37232843041419983
                               | 2/160 [00:24<31:03, 11.79s/it]masks_dr unique: tensor([-7.
8302 Epoch 27/499:
                   1%||
    7717, -7.7640, -7.7435, ..., 11.7381, 11.7414, 11.7450],
8303
           grad_fn=<Unique2Backward0>)
8304 masks_dr unique: tensor([-7.7717, -7.7640, -7.7435, ..., 11.7381, 11.7414, 11.7450],
           grad_fn=<Unique2Backward0>)
8306 print_dice: 0.5279131531715393,
                                     print iou: 0.358615517616272
8307 Epoch 27/499:
                    2%||
                                 | 3/160 [00:34<28:19, 10.82s/it]masks_dr unique: tensor([-7.
    7736, -7.7658, -7.7453, ..., 11.7480, 11.7513, 11.7551],
8308
           grad_fn=<Unique2Backward0>)
8309 masks dr unique: tensor([-7.7736, -7.7658, -7.7453, ..., 11.7480, 11.7513, 11.7551],
8310
           grad fn=<Unique2Backward0>)
                    2%
                                 4/160 [00:43<26:56, 10.36s/it]print_dice: 0.5859217643737793
8311 Epoch 27/499:
        print_iou: 0.41434890031814575
8312 masks_dr unique: tensor([-7.9622, -7.9418, -7.9413, ..., 12.3928, 12.4006, 12.4054],
           grad_fn=<Unique2Backward0>)
8314 masks_dr unique: tensor([-7.9622, -7.9418, -7.9413, ..., 12.3928, 12.4006, 12.4054],
```

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grad fn=<Unique2Backward0>)
8316 print dice: 0.422996461391449,
                                     print_iou: 0.2682279646396637
                           | 5/160 [00:53<25:45, 9.97s/it]masks_dr unique: tensor([-7.
8317 Epoch 27/499:
    7715, -7.7637, -7.7431, ..., 11.7486, 11.7518, 11.7556],
           grad fn=<Unique2Backward0>)
8319 masks_dr unique: tensor([-7.7715, -7.7637, -7.7431, ..., 11.7486, 11.7518, 11.7556],
           grad fn=<Unique2Backward0>)
8320
                                 6/160 [01:02<25:11, 9.81s/it]print_dice: 0.5437197089195251
8321 Epoch 27/499:
                    4%
        print_iou: 0.3733620047569275
8322 masks_dr unique: tensor([-7.8487, -7.8477, -7.8357, ..., 13.1919, 13.1937, 13.1944],
           grad_fn=<Unique2Backward0>)
8324 masks_dr unique: tensor([-7.8487, -7.8477, -7.8357, ..., 13.1919, 13.1937, 13.1944],
           grad fn=<Unique2Backward0>)
8325
8326 print dice: 0.565526008605957, print iou: 0.39423927664756775
                                 | 7/160 [01:11<24:35, 9.64s/it]masks_dr unique: tensor([-8.
8327 Epoch 27/499: 4%|■
    1222, -8.1119, -8.1027, ..., 13.0871, 13.0885, 13.0933],
8328
           grad_fn=<Unique2Backward0>)
8329 masks_dr unique: tensor([-8.1222, -8.1119, -8.1027, ..., 13.0871, 13.0885, 13.0933],
8330
           grad_fn=<Unique2Backward0>)
8331 Epoch 27/499:
                    5%|
                                 8/160 [01:21<24:19, 9.60s/it]print_dice: 0.488619863986969
        print_iou: 0.3232938349246979
8332 masks_dr unique: tensor([-7.6059, -7.5902, -7.5837, ..., 11.4330, 11.4393, 11.4424],
           grad fn=<Unique2Backward0>)
8334 masks_dr unique: tensor([-7.6059, -7.5902, -7.5837, ..., 11.4330, 11.4393, 11.4424],
           grad_fn=<Unique2Backward0>)
8336 Epoch 27/499:
                    6%|
                                 9/160 [01:30<24:05, 9.57s/it]print_dice: 0.4968970715999603
        print iou: 0.33058086037635803
8337 masks_dr unique: tensor([-7.7675, -7.7596, -7.7388, ..., 11.7505, 11.7539, 11.7574],
           grad fn=<Unique2Backward0>)
8339 masks_dr unique: tensor([-7.7675, -7.7596, -7.7388, ..., 11.7505, 11.7539, 11.7574],
           grad_fn=<Unique2Backward0>)
8341 Epoch 27/499:
                    6%
                                 | 10/160 [01:40<23:57, 9.58s/it]print_dice: 0.5054833292961121
        print iou: 0.33822527527809143
8342 masks dr unique: tensor([-7.6328, -7.6297, -7.6154, ..., 13.1859, 13.1871, 13.1900],
           grad_fn=<Unique2Backward0>)
8344 masks_dr unique: tensor([-7.6328, -7.6297, -7.6154, ..., 13.1859, 13.1871, 13.1900],
           grad_fn=<Unique2Backward0>)
8345
8346 print_dice: 0.5638945698738098, print_iou: 0.3926554024219513
8347 Epoch 27/499: 7%
                           | 11/160 [01:49<23:37, 9.51s/it]masks_dr unique: tensor([-7.
    7719, -7.7625, -7.7563, ..., 12.0383, 12.0435, 12.0482],
8348
           grad_fn=<Unique2Backward0>)
8349 masks_dr unique: tensor([-7.7719, -7.7625, -7.7563, ..., 12.0383, 12.0435, 12.0482],
8350
           grad_fn=<Unique2Backward0>)
                   8%
8351 Epoch 27/499:
                                 | 12/160 [01:59<23:28, 9.52s/it]print_dice: 0.
    46192803978919983, print_iou: 0.3003292977809906
8352 masks_dr unique: tensor([-7.5433, -7.5347, -7.5207, ..., 11.5811, 11.5823, 11.5844],
           grad_fn=<Unique2Backward0>)
8353
8354 masks_dr unique: tensor([-7.5433, -7.5347, -7.5207, ..., 11.5811, 11.5823, 11.5844],
8355
           grad_fn=<Unique2Backward0>)
8356 Epoch 27/499:
                    8%
                                 | 13/160 [02:08<23:13, 9.48s/it]print_dice: 0.513512134552002
        print_iou: 0.34545332193374634
8357 masks_dr unique: tensor([-7.5111, -7.5087, -7.4901, ..., 12.3461, 12.3464, 12.3482],
           grad_fn=<Unique2Backward0>)
8359 masks_dr unique: tensor([-7.5111, -7.5087, -7.4901, ..., 12.3461, 12.3464, 12.3482],
           grad_fn=<Unique2Backward0>)
8361 Epoch 27/499:
                    9%
                                 | 14/160 [02:18<23:05, 9.49s/it]print_dice: 0.6035885810852051
        print_iou: 0.43224263191223145
8362 masks_dr unique: tensor([-7.7636, -7.7556, -7.7346, ..., 11.7517, 11.7551, 11.7586],
           grad_fn=<Unique2Backward0>)
8364 masks_dr unique: tensor([-7.7636, -7.7556, -7.7346, ..., 11.7517, 11.7551, 11.7586],
           grad_fn=<Unique2Backward0>)
8365
8366 print_dice: 0.569080114364624.
                                   print iou: 0.39770227670669556
8367 Epoch 27/499:
                    9%
                                 | 15/160 [02:27<22:55, 9.48s/it]masks_dr unique: tensor([-7.
    4472, -7.4464, -7.4355, ..., 13.1916, 13.1917, 13.1927],
8368
           grad_fn=<Unique2Backward0>)
8369 masks dr unique: tensor([-7.4472, -7.4464, -7.4355, ..., 13.1916, 13.1917, 13.1927],
           grad fn=<Unique2Backward0>)
8370
                                 | 16/160 [02:37<22:42, 9.46s/it]print_dice: 0.5283892750740051
8371 Epoch 27/499: 10%
        print iou: 0.3590550720691681
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8372 masks dr unique: tensor([-7.7625, -7.7544, -7.7334, ..., 11.7533, 11.7566, 11.7599],
           grad_fn=<Unique2Backward0>)
8374 masks dr unique: tensor([-7.7625, -7.7544, -7.7334, ..., 11.7533, 11.7566, 11.7599],
           grad fn=<Unique2Backward0>)
8375
8376 Epoch 27/499: 11%
                                | 17/160 [02:46<22:41, 9.52s/it]print_dice: 0.5321555137634277
        print_iou: 0.36254215240478516
8377 masks dr unique: tensor([-7.8872, -7.8864, -7.8809, ..., 13.2338, 13.2364, 13.2398],
           grad_fn=<Unique2Backward0>)
8378
8379 masks_dr unique: tensor([-7.8872, -7.8864, -7.8809, ..., 13.2338, 13.2364, 13.2398],
           grad fn=<Unique2Backward0>)
8380
8381 Epoch 27/499: 11%
                                | 18/160 [02:56<22:33, 9.53s/it]print_dice: 0.5168124437332153
        print_iou: 0.34844711422920227
8382 masks dr unique: tensor([-8.0011, -7.9886, -7.9866, ..., 12.9032, 12.9035, 12.9045],
           grad fn=<Unique2Backward0>)
8384 masks_dr unique: tensor([-8.0011, -7.9886, -7.9866, ..., 12.9032, 12.9035, 12.9045],
           grad_fn=<Unique2Backward0>)
8386 print_dice: 0.513607382774353, print_iou: 0.34553951025009155
8387 Epoch 27/499: 12%
                         | 19/160 [03:05<22:24, 9.54s/it]masks_dr unique: tensor([-7.
    6770, -7.6758, -7.6681, ..., 13.0453, 13.0464, 13.0477],
8388
           grad fn=<Unique2Backward0>)
8389 masks_dr unique: tensor([-7.6770, -7.6758, -7.6681, ..., 13.0453, 13.0464, 13.0477],
           grad_fn=<Unique2Backward0>)
                                20/160 [03:15<22:13, 9.52s/it]print_dice: 0.5007714033126831
8391 Epoch 27/499: 12%
        print iou: 0.33401939272880554
8392 masks_dr unique: tensor([-7.6577, -7.6554, -7.6419, ..., 13.2079, 13.2099, 13.2118],
           grad fn=<Unique2Backward0>)
8393
8394 masks dr unique: tensor([-7.6577, -7.6554, -7.6419, ..., 13.2079, 13.2099, 13.2118],
           grad fn=<Unique2Backward0>)
8396 print dice: 0.5013120174407959, print_iou: 0.33450058102607727
8397 Epoch 27/499: 13%
                               | 21/160 [03:24<22:05, 9.54s/it]masks_dr unique: tensor([-7.
    7608, -7.7526, -7.7313, ..., 11.7558, 11.7589, 11.7620],
8398
           grad_fn=<Unique2Backward0>)
8399 masks dr unique: tensor([-7.7608, -7.7526, -7.7313, ..., 11.7558, 11.7589, 11.7620],
8400
           grad fn=<Unique2Backward0>)
8401 Epoch 27/499: 14%
                                22/160 [03:34<21:57, 9.54s/it]print_dice: 0.5619496703147888
        print_iou: 0.39077189564704895
8402 masks_dr unique: tensor([-7.6685, -7.6651, -7.6504, ..., 12.2566, 12.2571, 12.2572],
           grad_fn=<Unique2Backward0>)
8404 masks_dr unique: tensor([-7.6685, -7.6651, -7.6504, ..., 12.2566, 12.2571, 12.2572],
           grad fn=<Unique2Backward0>)
8405
8406 print_dice: 0.5425987243652344, print_iou: 0.37230563163757324
8407 Epoch 27/499: 14%
    6809, -7.6741, -7.6629, ..., 12.5632, 12.5692, 12.5732],
           grad fn=<Unique2Backward0>)
8409 masks_dr unique: tensor([-7.6809, -7.6741, -7.6629, ..., 12.5632, 12.5692, 12.5732],
           grad_fn=<Unique2Backward0>)
8411 print_dice: 0.5414122939109802, print_iou: 0.3711893856525421
8412 Epoch 27/499: 15%
    7604, -7.7522, -7.7309, ..., 11.7613, 11.7647, 11.7681],
8413
           grad_fn=<Unique2Backward0>)
8414 masks dr unique: tensor([-7.7604, -7.7522, -7.7309, ..., 11.7613, 11.7647, 11.7681],
8415
           grad_fn=<Unique2Backward0>)
8416 print_dice: 0.6076229214668274, print_iou: 0.43639248609542847
8417 Epoch 27/499: 16%
    7839, -7.7820, -7.7742, ..., 13.0179, 13.0201, 13.0203],
           grad_fn=<Unique2Backward0>)
8418
8419 masks_dr unique: tensor([-7.7839, -7.7820, -7.7742, ..., 13.0179, 13.0201, 13.0203],
8420
           grad_fn=<Unique2Backward0>)
8421 Epoch 27/499: 16%
                                26/160 [04:12<21:13, 9.51s/it]print_dice: 0.5449550151824951
        print_iou: 0.3745279610157013
8422 masks dr unique: tensor([-7.3926, -7.3820, -7.3798, ..., 11.4652, 11.4694, 11.4738],
           grad fn=<Unique2Backward0>)
8423
8424 masks_dr unique: tensor([-7.3926, -7.3820, -7.3798, ..., 11.4652, 11.4694, 11.4738],
8425
           grad fn=<Unique2Backward0>)
8426 print_dice: 0.5825492143630981, print_iou: 0.41098371148109436
8427 Epoch 27/499: 17%
                               27/160 [04:22<21:09, 9.55s/it]masks_dr unique: tensor([-7.
    7181, -7.7104, -7.7026, \ldots, 12.7893, 12.7900, 12.7910
8428
           grad_fn=<Unique2Backward0>)
8429 masks dr unique: tensor([-7.7181, -7.7104, -7.7026, ..., 12.7893, 12.7900, 12.7910],
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grad fn=<Unique2Backward0>)
8431 Epoch 27/499: 18%
                                | 28/160 [04:31<20:59, 9.54s/it]print_dice: 0.5569463968276978
        print iou: 0.38594990968704224
8432 masks_dr unique: tensor([-7.7573, -7.7491, -7.7277, ..., 11.7627, 11.7661, 11.7695],
           grad fn=<Unique2Backward0>)
8434 masks dr unique: tensor([-7.7573, -7.7491, -7.7277, ..., 11.7627, 11.7661, 11.7695],
8435
           grad fn=<Unique2Backward0>)
8436 print dice: 0.5645860433578491, print_iou: 0.3933262526988983
8437 Epoch 27/499: 18%
    7548, -7.7465, -7.7251, ..., 11.7609, 11.7639, 11.7672],
8438
           grad fn=<Unique2Backward0>)
8439 masks_dr unique: tensor([-7.7548, -7.7465, -7.7251, ..., 11.7609, 11.7639, 11.7672],
           grad_fn=<Unique2Backward0>)
8440
8441 Epoch 27/499: 19%
                                30/160 [04:50<20:36, 9.51s/it]print dice: 0.5977926850318909
        print iou: 0.4263226091861725
8442 masks_dr unique: tensor([-7.7008, -7.6906, -7.6863, ..., 12.8007, 12.8013, 12.8022],
           grad fn=<Unique2Backward0>)
8444 masks_dr unique: tensor([-7.7008, -7.6906, -7.6863, ..., 12.8007, 12.8013, 12.8022],
8445
           grad_fn=<Unique2Backward0>)
8446 Epoch 27/499: 19%
                                31/160 [05:00<20:25, 9.50s/it]print_dice: 0.5214990377426147
        print_iou: 0.3527214825153351
8447 masks_dr unique: tensor([-7.7920, -7.7842, -7.7838, ..., 13.1804, 13.1836, 13.1837],
           grad fn=<Unique2Backward0>)
8449 masks dr unique: tensor([-7.7920, -7.7842, -7.7838, ..., 13.1804, 13.1836, 13.1837],
           grad_fn=<Unique2Backward0>)
8451 print_dice: 0.4360344707965851, print_iou: 0.2788005471229553
                               | 32/160 [05:09<20:21, 9.54s/it]masks_dr unique: tensor([-7.
8452 Epoch 27/499: 20%
    7522, -7.7439, -7.7226, ..., 11.7603, 11.7624, 11.7656],
           grad_fn=<Unique2Backward0>)
8453
8454 masks dr unique: tensor([-7.7522, -7.7439, -7.7226, ..., 11.7603, 11.7624, 11.7656],
           grad_fn=<Unique2Backward0>)
                                | 33/160 [05:19<20:12, 9.55s/it]print_dice: 0.5140402317047119
8456 Epoch 27/499: 21%
        print iou: 0.34593144059181213
8457 masks_dr unique: tensor([-7.7277, -7.7135, -7.7032, ..., 12.2321, 12.2391, 12.2402],
8458
           grad_fn=<Unique2Backward0>)
8459 masks_dr unique: tensor([-7.7277, -7.7135, -7.7032, ..., 12.2321, 12.2391, 12.2402],
           grad fn=<Unique2Backward0>)
8460
8461 Epoch 27/499: 21%
                                34/160 [05:28<19:58, 9.52s/it]print_dice: 0.523124098777771
        print_iou: 0.35420992970466614
8462 masks_dr unique: tensor([-7.4577, -7.4452, -7.4337, ..., 11.8651, 11.8666, 11.8715],
           grad_fn=<Unique2Backward0>)
8463
8464 masks_dr unique: tensor([-7.4577, -7.4452, -7.4337, ..., 11.8651, 11.8666, 11.8715],
8465
           grad_fn=<Unique2Backward0>)
8466 Epoch 27/499: 22%
                                | 35/160 [05:38<19:48, 9.50s/it]print_dice: 0.5433255434036255
        print_iou: 0.37299033999443054
8467 masks_dr unique: tensor([-7.8355, -7.8253, -7.8201, ..., 13.1315, 13.1324, 13.1341],
           grad_fn=<Unique2Backward0>)
8468
8469 masks_dr unique: tensor([-7.8355, -7.8253, -7.8201, ..., 13.1315, 13.1324, 13.1341],
           grad fn=<Unique2Backward0>)
8470
8471 print_dice: 0.4656415283679962, print_iou: 0.30347636342048645
8472 Epoch 27/499: 22%
    7483, -7.7400, -7.7187, ..., 11.7651, 11.7657, 11.7690],
8473
           grad_fn=<Unique2Backward0>)
8474 masks_dr unique: tensor([-7.7483, -7.7400, -7.7187, ..., 11.7651, 11.7657, 11.7690],
           grad_fn=<Unique2Backward0>)
8476 print_dice: 0.5558180809020996,
                                     print_iou: 0.3848671019077301
                                | 37/160 [05:57<19:34, 9.54s/it]masks dr unique: tensor([-7.
8477 Epoch 27/499: 23%
    5531, -7.5357, -7.5146, ..., 12.3399, 12.3403, 12.3446],
8478
           grad_fn=<Unique2Backward0>)
8479 masks_dr unique: tensor([-7.5531, -7.5357, -7.5146, ..., 12.3399, 12.3403, 12.3446],
           grad_fn=<Unique2Backward0>)
8481 print dice: 0.5123070478439331, print iou: 0.34436342120170593
8482 Epoch 27/499: 24%
                                | 38/160 [06:07<19:19, 9.50s/it]masks_dr unique: tensor([-7.
    7472, -7.7389, -7.7176, ..., 11.7648, 11.7657, 11.7690],
8483
           grad_fn=<Unique2Backward0>)
8484 masks_dr unique: tensor([-7.7472, -7.7389, -7.7176, ..., 11.7648, 11.7657, 11.7690],
8485
           grad fn=<Unique2Backward0>)
8486 Epoch 27/499: 24%
                                39/160 [06:16<19:10, 9.51s/it]print dice: 0.
    49599504470825195,
                        print iou: 0.3297828435897827
```

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8487 masks dr unique: tensor([-7.4784, -7.4652, -7.4552, ..., 11.8153, 11.8218, 11.8243],
           grad_fn=<Unique2Backward0>)
8489 masks dr unique: tensor([-7.4784, -7.4652, -7.4552, ..., 11.8153, 11.8218, 11.8243],
8490
           grad fn=<Unique2Backward0>)
8491 Epoch 27/499: 25%
                                40/160 [06:26<19:07, 9.56s/it]print_dice: 0.5028477907180786
        print iou: 0.33586952090263367
8492 masks dr unique: tensor([-7.7801, -7.7775, -7.7697, ..., 11.8415, 11.8418, 11.8458],
           grad_fn=<Unique2Backward0>)
8494 masks_dr unique: tensor([-7.7801, -7.7775, -7.7697, ..., 11.8415, 11.8418, 11.8458],
           grad fn=<Unique2Backward0>)
8495
8496 Epoch 27/499: 26%
                                 41/160 [06:35<18:54, 9.53s/it]print_dice: 0.5409408211708069
        print_iou: 0.37074631452560425
8497 masks dr unique: tensor([-7.7467, -7.7385, -7.7173, ..., 11.7661, 11.7695, 11.7731],
           grad fn=<Unique2Backward0>)
8499 masks_dr unique: tensor([-7.7467, -7.7385, -7.7173, ..., 11.7661, 11.7695, 11.7731],
           grad_fn=<Unique2Backward0>)
8501 Epoch 27/499: 26%
                                42/160 [06:45<18:46, 9.55s/it]print_dice: 0.4949348568916321
        print_iou: 0.32884612679481506
8502 masks_dr unique: tensor([-8.1164, -8.1106, -8.1069, ..., 12.5899, 12.5908, 12.5909],
           grad_fn=<Unique2Backward0>)
8504 masks_dr unique: tensor([-8.1164, -8.1106, -8.1069, ..., 12.5899, 12.5908, 12.5909],
           grad_fn=<Unique2Backward0>)
8505
8506 print dice: 0.5061979293823242, print_iou: 0.3388654589653015
8507 Epoch 27/499: 27%
    7464, -7.7382, -7.7170, ..., 11.7659, 11.7682, 11.7716],
8508
           grad_fn=<Unique2Backward0>)
8509 masks dr unique: tensor([-7.7464, -7.7382, -7.7170, ..., 11.7659, 11.7682, 11.7716],
           grad fn=<Unique2Backward0>)
                                44/160 [07:04<18:22, 9.50s/it]print_dice: 0.5068426132202148
8511 Epoch 27/499: 28%
        print iou: 0.33944350481033325
8512 masks_dr unique: tensor([-7.5520, -7.5440, -7.5305, ..., 12.0698, 12.0765, 12.0812],
8513
           grad_fn=<Unique2Backward0>)
8514 masks_dr unique: tensor([-7.5520, -7.5440, -7.5305, ..., 12.0698, 12.0765, 12.0812],
8515
           grad fn=<Unique2Backward0>)
8516 Epoch 27/499: 28%
                                45/160 [07:13<18:07, 9.46s/it]print_dice: 0.5941370129585266
        print_iou: 0.4226137101650238
8517 masks_dr unique: tensor([-7.5974, -7.5891, -7.5886, ..., 12.1763, 12.1788, 12.1825],
           grad_fn=<Unique2Backward0>)
8519 masks_dr unique: tensor([-7.5974, -7.5891, -7.5886, ..., 12.1763, 12.1788, 12.1825],
           grad fn=<Unique2Backward0>)
8520
8521 print_dice: 0.5601219534873962, print_iou: 0.38900652527809143
8522 Epoch 27/499: 29% 46/160 [07:23<18:06, 9.53s/it]masks_dr unique: tensor([-7.
    5918, -7.5827, -7.5737, ..., 12.8336, 12.8346, 12.8352],
           grad_fn=<Unique2Backward0>)
8524 masks_dr unique: tensor([-7.5918, -7.5827, -7.5737, ..., 12.8336, 12.8346, 12.8352],
8525
           grad_fn=<Unique2Backward0>)
8526 Epoch 27/499: 29%
                                47/160 [07:32<18:00, 9.56s/it]print_dice: 0.
    46638333797454834, print_iou: 0.30410686135292053
8527 masks_dr unique: tensor([-8.0156, -8.0125, -7.9990, ..., 12.5854, 12.5858, 12.5865],
8528
           grad fn=<Unique2Backward0>)
8529 masks_dr unique: tensor([-8.0156, -8.0125, -7.9990, ..., 12.5854, 12.5858, 12.5865],
           grad fn=<Unique2Backward0>)
8530
                                48/160 [07:42<17:50, 9.55s/it]print_dice: 0.5009826421737671
8531 Epoch 27/499: 30%
        print_iou: 0.3342073857784271
8532 masks_dr unique: tensor([-7.7466, -7.7385, -7.7173, ..., 11.7657, 11.7688, 11.7723],
8533
           grad_fn=<Unique2Backward0>)
8534 masks_dr unique: tensor([-7.7466, -7.7385, -7.7173, ..., 11.7657, 11.7688, 11.7723],
8535
           grad_fn=<Unique2Backward0>)
8536 print_dice: 0.5123096108436584, print_iou: 0.3443657457828522
8537 Epoch 27/499: 31%
                                49/160 [07:51<17:37, 9.52s/it]masks_dr unique: tensor([-7.
    9414, -7.9338, -7.9269, ..., 13.0782, 13.0796, 13.0803],
8538
           grad_fn=<Unique2Backward0>)
8539 masks_dr unique: tensor([-7.9414, -7.9338, -7.9269, ..., 13.0782, 13.0796, 13.0803],
8540
           grad fn=<Unique2Backward0>)
8541 Epoch 27/499: 31%
                                50/160 [08:01<17:28, 9.53s/it]print_dice: 0.568745493888855
        print_iou: 0.39737552404403687
8542 masks_dr unique: tensor([-7.8588, -7.8579, -7.8494, ..., 13.2395, 13.2399, 13.2412],
           grad_fn=<Unique2Backward0>)
8544 masks dr unique: tensor([-7.8588, -7.8579, -7.8494, ..., 13.2395, 13.2399, 13.2412],
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grad fn=<Unique2Backward0>)
8545
8546 Epoch 27/499: 32%
                                51/160 [08:11<17:22, 9.57s/it]print_dice: 0.5075816512107849
        print iou: 0.3401068449020386
8547 masks_dr unique: tensor([-7.7512, -7.7430, -7.7218, ..., 11.7689, 11.7723, 11.7760],
           grad_fn=<Unique2Backward0>)
8549 masks_dr unique: tensor([-7.7512, -7.7430, -7.7218, ..., 11.7689, 11.7723, 11.7760],
           grad fn=<Unique2Backward0>)
8550
8551 Epoch 27/499: 32%
                                52/160 [08:20<17:15, 9.59s/it]print_dice: 0.5739035606384277
        print_iou: 0.4024297297000885
8552 masks_dr unique: tensor([-7.7485, -7.7403, -7.7191, ..., 11.7656, 11.7674, 11.7709],
           grad fn=<Unique2Backward0>)
8553
8554 masks_dr unique: tensor([-7.7485, -7.7403, -7.7191, ..., 11.7656, 11.7674, 11.7709],
           grad fn=<Unique2Backward0>)
8555
8556 Epoch 27/499: 33%
                                | 53/160 [08:30<17:00, 9.53s/it]print dice: 0.
    45985376834869385, print_iou: 0.2985779941082001
8557 masks dr unique: tensor([-7.6162, -7.6058, -7.5972, ..., 11.9970, 11.9981, 11.9996],
8558
           grad fn=<Unique2Backward0>)
8559 masks_dr unique: tensor([-7.6162, -7.6058, -7.5972, ..., 11.9970, 11.9981, 11.9996],
8560
           grad_fn=<Unique2Backward0>)
8561 print_dice: 0.5056193470954895, print_iou: 0.33834707736968994
8562 Epoch 27/499: 34%
    7511, -7.7428, -7.7215, ..., 11.7680, 11.7703, 11.7739],
8563
           grad fn=<Unique2Backward0>)
8564 masks_dr unique: tensor([-7.7511, -7.7428, -7.7215, ..., 11.7680, 11.7703, 11.7739],
           grad fn=<Unique2Backward0>)
8566 Epoch 27/499: 34%
                                55/160 [08:49<16:43, 9.56s/it]print_dice: 0.5581827759742737
        print iou: 0.38713836669921875
8567 masks_dr unique: tensor([-7.7518, -7.7435, -7.7222, ..., 11.7676, 11.7706, 11.7740],
           grad_fn=<Unique2Backward0>)
8569 masks_dr unique: tensor([-7.7518, -7.7435, -7.7222, ..., 11.7676, 11.7706, 11.7740],
           grad_fn=<Unique2Backward0>)
8571 print_dice: 0.5499462485313416, print_iou: 0.37925922870635986
8572 Epoch 27/499: 35%| | 56/160 [08:58<16:38, 9.60s/it]masks_dr unique: tensor([-7.
    5326, -7.5110, -7.5054, ..., 11.6762, 11.6804, 11.6837],
8573
           grad_fn=<Unique2Backward0>)
8574 masks_dr unique: tensor([-7.5326, -7.5110, -7.5054, ..., 11.6762, 11.6804, 11.6837],
8575
           grad fn=<Unique2Backward0>)
8576 print_dice: 0.5120314359664917, print_iou: 0.34411442279815674
8577 Epoch 27/499: 36%| 57/160 [09:08<16:28, 9.59s/it]masks_dr unique: tensor([-7.
    7546, -7.7462, -7.7249, ..., 11.7673, 11.7707, 11.7744],
8578
           grad fn=<Unique2Backward0>)
8579 masks_dr unique: tensor([-7.7546, -7.7462, -7.7249, ..., 11.7673, 11.7707, 11.7744],
8580
           grad_fn=<Unique2Backward0>)
8581 print_dice: 0.5719693899154663, print_iou: 0.4005301892757416
8582 Epoch 27/499: 36%| | 58/160 [09:18<16:16, 9.57s/it]masks_dr unique: tensor([-7.
    9373, -7.9358, -7.9241, ..., 13.1417, 13.1447, 13.1447],
           grad_fn=<Unique2Backward0>)
8583
8584 masks_dr unique: tensor([-7.9373, -7.9358, -7.9241, ..., 13.1417, 13.1447, 13.1447],
           grad fn=<Unique2Backward0>)
8585
8586 Epoch 27/499: 37%
                               59/160 [09:27<16:10, 9.60s/it]print_dice: 0.5202171206474304
        print iou: 0.3515496551990509
8587 masks_dr unique: tensor([-7.2336, -7.2251, -7.2136, ..., 11.5105, 11.5109, 11.5143],
           grad_fn=<Unique2Backward0>)
8588
8589 masks_dr unique: tensor([-7.2336, -7.2251, -7.2136, ..., 11.5105, 11.5109, 11.5143],
           grad_fn=<Unique2Backward0>)
8591 print_dice: 0.5091990828514099,
                                     print_iou: 0.3415607511997223
                                | 60/160 [09:37<16:01, 9.61s/it]masks_dr unique: tensor([-7.
8592 Epoch 27/499: 38%
    7533, -7.7448, -7.7233, ..., 11.7681, 11.7701, 11.7734],
           grad fn=<Unique2Backward0>)
8593
8594 masks_dr unique: tensor([-7.7533, -7.7448, -7.7233, ..., 11.7681, 11.7701, 11.7734],
8595
           grad_fn=<Unique2Backward0>)
8596 Epoch 27/499: 38%
                                61/160 [09:46<15:49, 9.60s/it]print_dice: 0.5116321444511414
        print_iou: 0.3437538146972656
8597 masks_dr unique: tensor([-7.2817, -7.2727, -7.2699, ..., 11.9037, 11.9039, 11.9050],
           grad fn=<Unique2Backward0>)
8598
8599 masks dr unique: tensor([-7.2817, -7.2727, -7.2699, ..., 11.9037, 11.9039, 11.9050],
8600
           grad fn=<Unique2Backward0>)
8601 print dice: 0.4626709520816803, print iou: 0.30095767974853516
8602 Epoch 27/499: 39%
                                62/160 [09:56<15:41, 9.61s/it]masks_dr unique: tensor([-7.
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8602 8525, -7.8427, -7.8322, ..., 12.7159, 12.7212, 12.7262],
           grad_fn=<Unique2Backward0>)
8604 masks_dr unique: tensor([-7.8525, -7.8427, -7.8322, ..., 12.7159, 12.7212, 12.7262],
           grad fn=<Unique2Backward0>)
8605
                                63/160 [10:06<15:28, 9.57s/it]print_dice: 0.5492837429046631
8606 Epoch 27/499: 39%
        print iou: 0.37862932682037354
8607 masks dr unique: tensor([-7.2433, -7.2430, -7.2414, ..., 11.4757, 11.4828, 11.4854],
           grad_fn=<Unique2Backward0>)
8609 masks_dr unique: tensor([-7.2433, -7.2430, -7.2414, ..., 11.4757, 11.4828, 11.4854],
           grad fn=<Unique2Backward0>)
8610
8611 print_dice: 0.6075435876846313, print_iou: 0.43631064891815186
8612 Epoch 27/499: 40% 64/160 [10:15<15:16, 9.55s/it] masks_dr unique: tensor([-7.
    9055, -7.9017, -7.8935, ..., 13.1649, 13.1652, 13.1659],
8613
           grad fn=<Unique2Backward0>)
8614 masks_dr unique: tensor([-7.9055, -7.9017, -7.8935, ..., 13.1649, 13.1652, 13.1659],
8615
           grad_fn=<Unique2Backward0>)
8616 print_dice: 0.5166593194007874, print_iou: 0.34830793738365173
8617 Epoch 27/499: 41%
                            | 65/160 [10:25<15:06, 9.54s/it]masks_dr unique: tensor([-8.
    1639, -8.1596, -8.1550, ..., 12.8820, 12.8834, 12.8838],
8618
           grad_fn=<Unique2Backward0>)
8619 masks_dr unique: tensor([-8.1639, -8.1596, -8.1550, ..., 12.8820, 12.8834, 12.8838],
8620
           grad_fn=<Unique2Backward0>)
8621 print dice: 0.5935087203979492, print iou: 0.421978235244751
8622 Epoch 27/499: 41%
    5850, -7.5792, -7.5783, ..., 12.2167, 12.2212, 12.2263],
           grad_fn=<Unique2Backward0>)
8623
8624 masks_dr unique: tensor([-7.5850, -7.5792, -7.5783, ..., 12.2167, 12.2212, 12.2263],
           grad fn=<Unique2Backward0>)
8625
8626 Epoch 27/499: 42%
                                67/160 [10:44<14:45, 9.53s/it]print_dice: 0.5034999847412109
        print iou: 0.3364516794681549
8627 masks_dr unique: tensor([-7.5180, -7.5161, -7.5038, ..., 13.1582, 13.1582, 13.1585],
           grad fn=<Unique2Backward0>)
8628
8629 masks_dr unique: tensor([-7.5180, -7.5161, -7.5038, ..., 13.1582, 13.1582, 13.1585],
8630
           grad_fn=<Unique2Backward0>)
8631 print_dice: 0.4960440397262573, print_iou: 0.3298261761665344
8632 Epoch 27/499: 42% 68/160 [10:53<14:33, 9.49s/it]masks_dr unique: tensor([-7.
    7439, -7.7231, -7.7120, ..., 12.3733, 12.3734, 12.3778],
8633
           grad_fn=<Unique2Backward0>)
8634 masks_dr unique: tensor([-7.7439, -7.7231, -7.7120, ..., 12.3733, 12.3734, 12.3778],
           grad fn=<Unique2Backward0>)
8635
8636 Epoch 27/499: 43%
                                69/160 [11:03<14:28, 9.54s/it]print_dice: 0.5304567813873291
        print_iou: 0.36096712946891785
8637 masks_dr unique: tensor([-7.4016, -7.4009, -7.3908, ..., 12.6285, 12.6290, 12.6293],
           grad_fn=<Unique2Backward0>)
8639 masks_dr unique: tensor([-7.4016, -7.4009, -7.3908, ..., 12.6285, 12.6290, 12.6293],
           grad_fn=<Unique2Backward0>)
8641 print_dice: 0.475959450006485, print_iou: 0.31230103969573975
8642 Epoch 27/499: 44%
    8168, -7.8163, -7.8067, ..., 13.2708, 13.2740, 13.2741],
8643
           grad_fn=<Unique2Backward0>)
8644 masks dr unique: tensor([-7.8168, -7.8163, -7.8067, ..., 13.2708, 13.2740, 13.2741],
8645
           grad fn=<Unique2Backward0>)
8646 Epoch 27/499: 44%
                                71/160 [11:22<14:08, 9.54s/it]print_dice: 0.
    47511687874794006, print_iou: 0.31157591938972473
8647 masks_dr unique: tensor([-8.0056, -7.9954, -7.9851, ..., 13.0363, 13.0386, 13.0389],
8648
           grad_fn=<Unique2Backward0>)
8649 masks_dr unique: tensor([-8.0056, -7.9954, -7.9851, ..., 13.0363, 13.0386, 13.0389],
           grad fn=<Unique2Backward0>)
8650
8651 print_dice: 0.5229703187942505, print_iou: 0.35406896471977234
8652 Epoch 27/499: 45%
                                72/160 [11:31<13:57, 9.51s/it]masks_dr unique: tensor([-7.
    8116, -7.8051, -7.7993, ..., 12.7207, 12.7219, 12.7222],
           grad_fn=<Unique2Backward0>)
8653
8654 masks dr unique: tensor([-7.8116, -7.8051, -7.7993, ..., 12.7207, 12.7219, 12.7222],
           grad fn=<Unique2Backward0>)
8655
8656 print_dice: 0.6014603972434998, print_iou: 0.4300632178783417
8657 Epoch 27/499: 46%
                                | 73/160 [11:41<13:49, 9.53s/it]masks_dr unique: tensor([-7.
    8130, -7.8054, -7.7916, ..., 12.2820, 12.2874, 12.2928],
8658
           grad fn=<Unique2Backward0>)
8659 masks dr unique: tensor([-7.8130, -7.8054, -7.7916, ..., 12.2820, 12.2874, 12.2928],
```

```
grad fn=<Unique2Backward0>)
                                | 74/160 [11:50<13:43, 9.57s/it]print dice: 0.5468694567680359
8661 Epoch 27/499: 46%
        print iou: 0.37633880972862244
8662 masks_dr unique: tensor([-7.4347, -7.4231, -7.4121, ..., 12.0359, 12.0408, 12.0457],
           grad_fn=<Unique2Backward0>)
8664 masks_dr unique: tensor([-7.4347, -7.4231, -7.4121, ..., 12.0359, 12.0408, 12.0457],
           grad fn=<Unique2Backward0>)
8665
8666 Epoch 27/499: 47%
                                75/160 [12:00<13:36, 9.61s/it]print_dice: 0.5354260206222534
        print_iou: 0.3655848205089569
8667 masks_dr unique: tensor([-7.9873, -7.9848, -7.9697, ..., 13.1964, 13.1987, 13.1994],
           grad fn=<Unique2Backward0>)
8668
8669 masks_dr unique: tensor([-7.9873, -7.9848, -7.9697, ..., 13.1964, 13.1987, 13.1994],
           grad fn=<Unique2Backward0>)
8670
8671 print dice: 0.4949183166027069, print iou: 0.3288315236568451
8672 Epoch 27/499: 48%
    7237, -7.7147, -7.7003, ..., 12.2801, 12.2872, 12.2900],
           grad fn=<Unique2Backward0>)
8673
8674 masks_dr unique: tensor([-7.7237, -7.7147, -7.7003, ..., 12.2801, 12.2872, 12.2900],
8675
           grad_fn=<Unique2Backward0>)
8676 Epoch 27/499: 48%
                               77/160 [12:19<13:09, 9.52s/it]print_dice: 0.5422282218933105
        print_iou: 0.37195688486099243
8677 masks_dr unique: tensor([-7.7923, -7.7811, -7.7735, ..., 13.1296, 13.1310, 13.1314],
           grad fn=<Unique2Backward0>)
8678
8679 masks_dr unique: tensor([-7.7923, -7.7811, -7.7735, ..., 13.1296, 13.1310, 13.1314],
           grad fn=<Unique2Backward0>)
8681 Epoch 27/499: 49%
                                78/160 [12:29<13:03, 9.55s/it]print_dice: 0.4967454969882965
        print iou: 0.330446720123291
8682 masks_dr unique: tensor([-7.5888, -7.5879, -7.5761, ..., 13.1768, 13.1774, 13.1784],
           grad_fn=<Unique2Backward0>)
8684 masks_dr unique: tensor([-7.5888, -7.5879, -7.5761, ..., 13.1768, 13.1774, 13.1784],
           grad_fn=<Unique2Backward0>)
8686 print_dice: 0.5555559396743774, print_iou: 0.38461577892303467
8687 Epoch 27/499: 49%| 79/160 [12:38<12:53, 9.55s/it]masks_dr unique: tensor([-7.
    6766, -7.6548, -7.6546, ..., 12.3892, 12.3902, 12.3934],
8688
           grad_fn=<Unique2Backward0>)
8689 masks_dr unique: tensor([-7.6766, -7.6548, -7.6546, ..., 12.3892, 12.3902, 12.3934],
8690
           grad_fn=<Unique2Backward0>)
8691 print_dice: 0.5297172665596008, print_iou: 0.3602825999259949
8692 Epoch 27/499: 50%| 80/160 [12:48<12:43, 9.55s/it]masks_dr unique: tensor([-7.
    7870, -7.7782, -7.7724, ..., 13.1053, 13.1053, 13.1067],
           grad_fn=<Unique2Backward0>)
8693
8694 masks_dr unique: tensor([-7.7870, -7.7782, -7.7724, ..., 13.1053, 13.1053, 13.1067],
8695
           grad_fn=<Unique2Backward0>)
8696 print_dice: 0.5390911102294922, print_iou: 0.3690107464790344
8697 Epoch 27/499: 51%| | 81/160 [12:57<12:32, 9.52s/it]masks_dr unique: tensor([-7.
    9360, -7.9233, -7.9161, ..., 12.4117, 12.4119, 12.4130],
           grad_fn=<Unique2Backward0>)
8698
8699 masks_dr unique: tensor([-7.9360, -7.9233, -7.9161, ..., 12.4117, 12.4119, 12.4130],
           grad fn=<Unique2Backward0>)
8700
8701 Epoch 27/499: 51%| 82/160 [13:07<12:24, 9.54s/it]print_dice: 0.
    48531582951545715, print_iou: 0.32040727138519287
8702 masks dr unique: tensor([-7.8835, -7.8824, -7.8740, ..., 12.4513, 12.4523, 12.4527],
           grad fn=<Unique2Backward0>)
8703
8704 masks_dr unique: tensor([-7.8835, -7.8824, -7.8740, ..., 12.4513, 12.4523, 12.4527],
           grad_fn=<Unique2Backward0>)
8706 Epoch 27/499: 52%|
                             | 83/160 [13:16<12:14, 9.54s/it]print_dice: 0.5296131372451782
        print_iou: 0.36018624901771545
8707 masks_dr unique: tensor([-7.7529, -7.7449, -7.7239, ..., 11.7735, 11.7738, 11.7766],
           grad_fn=<Unique2Backward0>)
8709 masks_dr unique: tensor([-7.7529, -7.7449, -7.7239, ..., 11.7735, 11.7738, 11.7766],
           grad_fn=<Unique2Backward0>)
8710
8711 Epoch 27/499: 52%
                                84/160 [13:26<12:06, 9.56s/it]print_dice: 0.6396040320396423
        print iou: 0.47016018629074097
8712 masks dr unique: tensor([-7.7539, -7.7459, -7.7248, ..., 11.7730, 11.7732, 11.7759],
           grad_fn=<Unique2Backward0>)
8713
8714 masks_dr unique: tensor([-7.7539, -7.7459, -7.7248, ..., 11.7730, 11.7732, 11.7759],
           grad fn=<Unique2Backward0>)
8715
8716 print dice: 0.5121989250183105, print iou: 0.34426572918891907
                                | 85/160 [13:36<11:58, 9.57s/it]masks_dr unique: tensor([-7.
8717 Epoch 27/499: 53%
```

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8717 5481, -7.5361, -7.5289, ..., 12.1726, 12.1771, 12.1835],
           grad_fn=<Unique2Backward0>)
8718
8719 masks_dr unique: tensor([-7.5481, -7.5361, -7.5289, ..., 12.1726, 12.1771, 12.1835],
8720
           grad fn=<Unique2Backward0>)
8721 Epoch 27/499: 54%
                                86/160 [13:45<11:49, 9.59s/it]print_dice: 0.5316015481948853
        print_iou: 0.3620281219482422
8722 masks_dr unique: tensor([-7.7530, -7.7451, -7.7241, ..., 11.7771, 11.7775, 11.7804],
           grad_fn=<Unique2Backward0>)
8723
8724 masks_dr unique: tensor([-7.7530, -7.7451, -7.7241, ..., 11.7771, 11.7775, 11.7804],
           grad fn=<Unique2Backward0>)
8725
8726 Epoch 27/499: 54%
                                87/160 [13:55<11:40, 9.60s/it]print_dice: 0.5443060994148254
        print iou: 0.3739152252674103
8727 masks_dr unique: tensor([-7.5138, -7.5019, -7.4905, ..., 12.0144, 12.0179, 12.0215],
           grad fn=<Unique2Backward0>)
8729 masks_dr unique: tensor([-7.5138, -7.5019, -7.4905, ..., 12.0144, 12.0179, 12.0215],
           grad_fn=<Unique2Backward0>)
8730
8731 Epoch 27/499: 55%
                                88/160 [14:05<11:37, 9.68s/it]print_dice: 0.4820239543914795
        print_iou: 0.3175438642501831
8732 masks_dr unique: tensor([-7.3238, -7.3038, -7.3013, ..., 11.7420, 11.7459, 11.7468],
           grad_fn=<Unique2Backward0>)
8734 masks_dr unique: tensor([-7.3238, -7.3038, -7.3013, ..., 11.7420, 11.7459, 11.7468],
           grad_fn=<Unique2Backward0>)
8735
8736 Epoch 27/499: 56%
                                89/160 [14:14<11:25, 9.65s/it]print dice: 0.
    47154486179351807, print_iou: 0.30851075053215027
8737 masks_dr unique: tensor([-7.7548, -7.7469, -7.7260, ..., 11.7737, 11.7754, 11.7769],
           grad_fn=<Unique2Backward0>)
8738
8739 masks dr unique: tensor([-7.7548, -7.7469, -7.7260, ..., 11.7737, 11.7754, 11.7769],
8740
           grad fn=<Unique2Backward0>)
                                90/160 [14:24<11:16, 9.67s/it]print_dice: 0.4421164095401764
8741 Epoch 27/499: 56%
        print iou: 0.28379297256469727
8742 masks_dr unique: tensor([-7.7558, -7.7479, -7.7270, ..., 11.7729, 11.7729, 11.7760],
8743
           grad_fn=<Unique2Backward0>)
8744 masks_dr unique: tensor([-7.7558, -7.7479, -7.7270, ..., 11.7729, 11.7729, 11.7760],
8745
           grad_fn=<Unique2Backward0>)
8746 print dice: 0.5146855711936951, print iou: 0.3465162217617035
8747 Epoch 27/499: 57%
    6506, -7.6296, -7.6186, ..., 11.7603, 11.7603, 11.7650],
8748
           grad_fn=<Unique2Backward0>)
8749 masks_dr unique: tensor([-7.6506, -7.6296, -7.6186, ..., 11.7603, 11.7603, 11.7650],
           grad fn=<Unique2Backward0>)
8750
8751 Epoch 27/499: 57%
                                92/160 [14:43<10:48, 9.54s/it]print_dice: 0.4422966241836548
        print_iou: 0.28394147753715515
8752 masks_dr unique: tensor([-7.7602, -7.7523, -7.7314, ..., 11.7760, 11.7762, 11.7788],
           grad fn=<Unique2Backward0>)
8754 masks_dr unique: tensor([-7.7602, -7.7523, -7.7314, ..., 11.7760, 11.7762, 11.7788],
           grad_fn=<Unique2Backward0>)
8756 Epoch 27/499: 58%
                                93/160 [14:52<10:37, 9.52s/it]print_dice: 0.5407083034515381
        print_iou: 0.37052789330482483
8757 masks_dr unique: tensor([-7.7594, -7.7516, -7.7307, ..., 11.7753, 11.7754, 11.7785],
8758
           grad fn=<Unique2Backward0>)
8759 masks_dr unique: tensor([-7.7594, -7.7516, -7.7307, ..., 11.7753, 11.7754, 11.7785],
           grad fn=<Unique2Backward0>)
8760
                                94/160 [15:02<10:28, 9.53s/it]print_dice: 0.5800384879112244
8761 Epoch 27/499: 59%
        print iou: 0.4084888994693756
8762 masks_dr unique: tensor([-7.8598, -7.8583, -7.8457, ..., 12.1041, 12.1107, 12.1118],
8763
           grad_fn=<Unique2Backward0>)
8764 masks_dr unique: tensor([-7.8598, -7.8583, -7.8457, ..., 12.1041, 12.1107, 12.1118],
           grad fn=<Unique2Backward0>)
8765
                                      print_iou: 0.3190422058105469
8766 print dice: 0.48374828696250916,
8767 Epoch 27/499: 59% 95/160 [15:11<10:15, 9.47s/it] masks_dr unique: tensor([-7.
    8412, -7.8293, -7.8255, ..., 12.3346, 12.3415, 12.3469],
           grad_fn=<Unique2Backward0>)
8768
8769 masks_dr unique: tensor([-7.8412, -7.8293, -7.8255, ..., 12.3346, 12.3415, 12.3469],
           grad fn=<Unique2Backward0>)
8770
8771 Epoch 27/499: 60%
                                96/160 [15:21<10:07, 9.50s/it]print_dice: 0.5607270002365112
        print iou: 0.38959041237831116
8772 masks_dr unique: tensor([-7.7427, -7.7404, -7.7368, ..., 13.1176, 13.1187, 13.1209],
           grad_fn=<Unique2Backward0>)
8774 masks dr unique: tensor([-7.7427, -7.7404, -7.7368, ..., 13.1176, 13.1187, 13.1209],
```

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8775
           grad fn=<Unique2Backward0>)
                                 | 97/160 [15:30<10:00, 9.53s/it]print_dice: 0.5907400846481323
8776 Epoch 27/499: 61%
        print iou: 0.4191845953464508
8777 masks_dr unique: tensor([-7.7633, -7.7555, -7.7345, ..., 11.7756, 11.7757, 11.7788],
           grad_fn=<Unique2Backward0>)
8779 masks_dr unique: tensor([-7.7633, -7.7555, -7.7345, ..., 11.7756, 11.7757, 11.7788],
           grad fn=<Unique2Backward0>)
8780
8781 Epoch 27/499: 61%
                                 98/160 [15:40<09:51, 9.53s/it]print_dice: 0.
    49889957904815674, print_iou: 0.33235588669776917
8782 masks_dr unique: tensor([-7.7641, -7.7562, -7.7352, ..., 11.7785, 11.7788, 11.7818],
8783
           grad fn=<Unique2Backward0>)
8784 masks_dr unique: tensor([-7.7641, -7.7562, -7.7352, ..., 11.7785, 11.7788, 11.7818],
           grad_fn=<Unique2Backward0>)
8785
8786 print dice: 0.46944499015808105,
                                      print iou: 0.3067155182361603
8787 Epoch 27/499: 62%| 99/160 [15:49<09:41, 9.53s/it]masks_dr unique: tensor([-7.
    7672, -7.7593, -7.7383, ..., 11.7792, 11.7821, 11.7822],
8788
           grad_fn=<Unique2Backward0>)
8789 masks_dr unique: tensor([-7.7672, -7.7593, -7.7383, ..., 11.7792, 11.7821, 11.7822],
8790
           grad_fn=<Unique2Backward0>)
8791 Epoch 27/499: 62% | 100/160 [15:59<09:32, 9.54s/it]print_dice: 0.
    5513336658477783, print_iou: 0.3805801570415497
8792 masks dr unique: tensor([-8.1482, -8.1381, -8.1251, ..., 13.2281, 13.2298, 13.2345],
8793
           grad fn=<Unique2Backward0>)
8794 masks_dr unique: tensor([-8.1482, -8.1381, -8.1251, ..., 13.2281, 13.2298, 13.2345],
           grad_fn=<Unique2Backward0>)
8796 Epoch 27/499: 63%
                                 | 101/160 [16:08<09:19, 9.49s/it]print dice: 0.
    45569491386413574, print_iou: 0.29508090019226074
      [100/160] eta: 0:09:35 time: 9.5559 data: 0.0002
8797
8798 masks_dr unique: tensor([-7.7161, -7.7153, -7.7099, ..., 12.5296, 12.5298, 12.5365],
8799
           grad fn=<Unique2Backward0>)
8800 masks_dr unique: tensor([-7.7161, -7.7153, -7.7099, ..., 12.5296, 12.5298, 12.5365],
8801
           grad_fn=<Unique2Backward0>)
8802 Epoch 27/499: 64%
                                | 102/160 [16:18<09:10, 9.49s/it]print_dice: 0.
    4683151841163635, print_iou: 0.30575165152549744
8803 masks dr unique: tensor([-7.9174, -7.9153, -7.9099, ..., 12.9101, 12.9109, 12.9111],
8804
           grad_fn=<Unique2Backward0>)
8805 masks_dr unique: tensor([-7.9174, -7.9153, -7.9099, ..., 12.9101, 12.9109, 12.9111],
8806
           grad_fn=<Unique2Backward0>)
8807 print_dice: 0.5463157892227173, print_iou: 0.37581461668014526
8808 Epoch 27/499: 64%| | 103/160 [16:27<09:03, 9.53s/it]masks_dr unique: tensor([-7.
    7692, -7.7610, -7.7\overline{396}, ..., 11.7811, 11.7826, 11.7838],
8809
           grad_fn=<Unique2Backward0>)
8810 masks_dr unique: tensor([-7.7692, -7.7610, -7.7396, ..., 11.7811, 11.7826, 11.7838],
           grad_fn=<Unique2Backward0>)
8812 Epoch 27/499: 65%
                                 | 104/160 [16:37<08:57, 9.60s/it]print_dice: 0.
    49177148938179016, print_iou: 0.3260590136051178
8813 masks_dr unique: tensor([-7.7694, -7.7613, -7.7398, ..., 11.7813, 11.7818, 11.7846],
8814
           grad_fn=<Unique2Backward0>)
8815 masks_dr unique: tensor([-7.7694, -7.7613, -7.7398, ..., 11.7813, 11.7818, 11.7846],
8816
           grad fn=<Unique2Backward0>)
8817 Epoch 27/499: 66%
                                 | 105/160 [16:47<08:44, 9.54s/it]print_dice: 0.
    44969889521598816, print_iou: 0.290071964263916
8818 masks dr unique: tensor([-7.7729, -7.7647, -7.7432, ..., 11.7790, 11.7792, 11.7822],
8819
           grad_fn=<Unique2Backward0>)
8820 masks_dr unique: tensor([-7.7729, -7.7647, -7.7432, ..., 11.7790, 11.7792, 11.7822],
           grad_fn=<Unique2Backward0>)
8821
8822 Epoch 27/499: 66%
                            ■ | 106/160 [16:56<08:35, 9.55s/it]print_dice: 0.
    5948926210403442,
                       print_iou: 0.42337876558303833
8823 masks_dr unique: tensor([-8.0951, -8.0816, -8.0758, ..., 13.2801, 13.2816, 13.2818],
           grad fn=<Unique2Backward0>)
8824
8825 masks_dr unique: tensor([-8.0951, -8.0816, -8.0758, ..., 13.2801, 13.2816, 13.2818],
           grad fn=<Unique2Backward0>)
8826
8827 print_dice: 0.5371130704879761,
                                     print_iou: 0.3671596348285675
8828 Epoch 27/499: 67% | 107/160 [17:06<08:29, 9.61s/it]masks_dr unique: tensor([-7.
    5422, -7.5377, -7.5341, ..., 12.0868, 12.0927, 12.0961],
8829
           grad_fn=<Unique2Backward0>)
8830 masks_dr unique: tensor([-7.5422, -7.5377, -7.5341, ..., 12.0868, 12.0927, 12.0961],
           grad_fn=<Unique2Backward0>)
8831
8832 Epoch 27/499: 68% | 108/160 [17:16<08:21, 9.64s/it]print_dice: 0.
```

```
8832 4819849133491516,
                      print iou: 0.3175099492073059
8833 masks_dr unique: tensor([-7.6937, -7.6803, -7.6747, ..., 11.9351, 11.9433, 11.9470],
           grad fn=<Unique2Backward0>)
8835 masks dr unique: tensor([-7.6937, -7.6803, -7.6747, ..., 11.9351, 11.9433, 11.9470],
           grad fn=<Unique2Backward0>)
8837 print_dice: 0.4849654734134674, print_iou: 0.32010191679000854
8838 Epoch 27/499: 68%| | 109/160 [17:25<08:08, 9.57s/it]masks_dr unique: tensor([-7.
    8833, -7.8710, -7.8597, ..., 12.7639, 12.7649, 12.7650],
           grad_fn=<Unique2Backward0>)
8839
8840 masks_dr unique: tensor([-7.8833, -7.8710, -7.8597, ..., 12.7639, 12.7649, 12.7650],
           grad fn=<Unique2Backward0>)
8842 Epoch 27/499: 69% | 110/160 [17:35<07:58, 9.57s/it]print_dice: 0.
    49699997901916504, print_iou: 0.3306719660758972
8843 masks dr unique: tensor([-7.7046, -7.7041, -7.7010, ..., 13.0825, 13.0830, 13.0835],
           grad fn=<Unique2Backward0>)
8844
8845 masks_dr unique: tensor([-7.7046, -7.7041, -7.7010, ..., 13.0825, 13.0830, 13.0835],
           grad_fn=<Unique2Backward0>)
8847 Epoch 27/499: 69%| | 111/160 [17:44<07:48, 9.56s/it]print_dice: 0.
    5407953262329102,
                      print_iou: 0.37060967087745667
8848 masks_dr unique: tensor([-7.7390, -7.7297, -7.7229, ..., 13.1473, 13.1483, 13.1487],
           grad_fn=<Unique2Backward0>)
8850 masks_dr unique: tensor([-7.7390, -7.7297, -7.7229, ..., 13.1473, 13.1483, 13.1487],
           grad fn=<Unique2Backward0>)
8851
8852 print dice: 0.5665579438209534, print iou: 0.39524298906326294
8853 Epoch 27/499: 70%| | 112/160 [17:54<07:38, 9.55s/it]masks_dr unique: tensor([-7.
    6772, -7.6660, -7.6573, ..., 11.9851, 11.9916, 11.9960],
8854
           grad fn=<Unique2Backward0>)
8855 masks_dr unique: tensor([-7.6772, -7.6660, -7.6573, ..., 11.9851, 11.9916, 11.9960],
           grad_fn=<Unique2Backward0>)
8856
8857 Epoch 27/499: 71%
                                | 113/160 [18:04<07:33, 9.65s/it]print_dice: 0.
    5210800170898438, print_iou: 0.35233819484710693
8858 masks dr unique: tensor([-7.7805, -7.7719, -7.7500, ..., 11.7784, 11.7787, 11.7817],
           grad_fn=<Unique2Backward0>)
8860 masks_dr unique: tensor([-7.7805, -7.7719, -7.7500, ..., 11.7784, 11.7787, 11.7817],
8861
           grad fn=<Unique2Backward0>)
8862 Epoch 27/499: 71%
                               | 114/160 [18:13<07:21, 9.61s/it]print_dice: 0.
    5700814127922058, print_iou: 0.39868104457855225
8863 masks dr unique: tensor([-7.7814, -7.7728, -7.7507, ..., 11.7819, 11.7833, 11.7857],
8864
           grad_fn=<Unique2Backward0>)
8865 masks_dr unique: tensor([-7.7814, -7.7728, -7.7507, ..., 11.7819, 11.7833, 11.7857],
8866
           grad fn=<Unique2Backward0>)
8867 print_dice: 0.5557143688201904, print_iou: 0.3847676217556
8868 Epoch 27/499: 72%| | 115/160 [18:23<07:11, 9.58s/it]masks_dr unique: tensor([-7.
    7797, -7.7710, -7.7490, ..., 11.7817, 11.7840, 11.7844],
8869
           grad_fn=<Unique2Backward0>)
8870 masks_dr unique: tensor([-7.7797, -7.7710, -7.7490, ..., 11.7817, 11.7840, 11.7844],
           grad_fn=<Unique2Backward0>)
8872 Epoch 27/499: 72% | 116/160 [18:32<07:03, 9.62s/it]print_dice: 0.
    43604224920272827, print_iou: 0.2788069248199463
8873 masks_dr unique: tensor([-7.7830, -7.7743, -7.7522, ..., 11.7814, 11.7817, 11.7847],
8874
           grad_fn=<Unique2Backward0>)
8875 masks_dr unique: tensor([-7.7830, -7.7743, -7.7522, ..., 11.7814, 11.7817, 11.7847],
8876
           grad_fn=<Unique2Backward0>)
8877 Epoch 27/499: 73%| | 117/160 [18:42<06:52, 9.60s/it]print_dice: 0.545014500617981
        print_iou: 0.3745841383934021
8878 masks_dr unique: tensor([-7.7817, -7.7730, -7.7509, ..., 11.7840, 11.7848, 11.7875],
           grad_fn=<Unique2Backward0>)
8879
8880 masks_dr unique: tensor([-7.7817, -7.7730, -7.7509, ..., 11.7840, 11.7848, 11.7875],
           grad_fn=<Unique2Backward0>)
8882 Epoch 27/499: 74% | 118/160 [18:51<06:42, 9.58s/it]print_dice: 0.
    5057869553565979, print iou: 0.33849722146987915
8883 masks dr unique: tensor([-7.7827, -7.7740, -7.7518, ..., 11.7807, 11.7809, 11.7839],
8884
           grad_fn=<Unique2Backward0>)
8885 masks_dr unique: tensor([-7.7827, -7.7740, -7.7518, ..., 11.7807, 11.7809, 11.7839],
           grad_fn=<Unique2Backward0>)
8886
8887 Epoch 27/499: 74%
                                | 119/160 [19:01<06:30, 9.53s/it]print dice: 0.
                        print_iou: 0.33164310455322266
    4980960488319397,
8888 masks_dr unique: tensor([-7.7838, -7.7751, -7.7530, ..., 11.7833, 11.7834, 11.7865],
           grad fn=<Unique2Backward0>)
8889
```

```
8890 masks_dr unique: tensor([-7.7838, -7.7751, -7.7530, ..., 11.7833, 11.7834, 11.7865],
           grad fn=<Unique2Backward0>)
8892 Epoch 27/499: 75%
                               | 120/160 [19:10<06:19, 9.49s/it]print dice: 0.
    5319027900695801,
                      print_iou: 0.362307608127594
8893 masks_dr unique: tensor([-7.7842, -7.7754, -7.7532, ..., 11.7840, 11.7848, 11.7869],
           grad_fn=<Unique2Backward0>)
8895 masks dr unique: tensor([-7.7842, -7.7754, -7.7532, ..., 11.7840, 11.7848, 11.7869],
8896
           grad_fn=<Unique2Backward0>)
8897 print_dice: 0.49724680185317993, print_iou: 0.3308905363082886
8898 Epoch 27/499: 76%| | 121/160 [19:20<06:09, 9.48s/it]masks_dr unique: tensor([-7.
    4740, -7.4726, -7.4488, ..., 11.9104, 11.9108, 11.9174],
8899
           grad_fn=<Unique2Backward0>)
8900 masks dr unique: tensor([-7.4740, -7.4726, -7.4488, ..., 11.9104, 11.9108, 11.9174],
           grad fn=<Unique2Backward0>)
8902 print dice: 0.5441186428070068, print_iou: 0.3737383484840393
8903 Epoch 27/499: 76%| | 122/160 [19:29<06:03, 9.56s/it]masks_dr unique: tensor([-7.
    3295, -7.3284, -7.3075, ..., 11.8123, 11.8132, 11.8207],
8904
           grad_fn=<Unique2Backward0>)
8905 masks_dr unique: tensor([-7.3295, -7.3284, -7.3075, ..., 11.8123, 11.8132, 11.8207],
           grad_fn=<Unique2Backward0>)
8907 Epoch 27/499: 77% | 123/160 [19:39<05:52, 9.53s/it]print_dice: 0.
    5687655806541443, print_iou: 0.39739513397216797
8908 masks dr unique: tensor([-7.5599, -7.5497, -7.5408, ..., 12.1620, 12.1632, 12.1705],
           grad fn=<Unique2Backward0>)
8910 masks dr unique: tensor([-7.5599, -7.5497, -7.5408, ..., 12.1620, 12.1632, 12.1705],
8911
           grad_fn=<Unique2Backward0>)
8912 Epoch 27/499: 78% | 124/160 [19:48<05:42, 9.50s/it]print dice: 0.599186897277832
        print iou: 0.4277421832084656
8913 masks_dr unique: tensor([-7.7888, -7.7800, -7.7576, ..., 11.7822, 11.7829, 11.7853],
           grad fn=<Unique2Backward0>)
8915 masks_dr unique: tensor([-7.7888, -7.7800, -7.7576, ..., 11.7822, 11.7829, 11.7853],
8916
           grad_fn=<Unique2Backward0>)
8917 print_dice: 0.5316758155822754, print_iou: 0.36209702491760254
8918 Epoch 27/499: 78%| | 125/160 [19:58<05:32, 9.50s/it]masks_dr unique: tensor([-7.
    7049, -7.7023, -7.7012, ..., 12.0894, 12.0960, 12.1016],
8919
           grad_fn=<Unique2Backward0>)
8920 masks_dr unique: tensor([-7.7049, -7.7023, -7.7012, ..., 12.0894, 12.0960, 12.1016],
           grad_fn=<Unique2Backward0>)
8921
8922 Epoch 27/499: 79% | 126/160 [20:07<05:23, 9.52s/it]print_dice: 0.
    5928739905357361, print_iou: 0.4213367998600006
8923 masks_dr unique: tensor([-8.0190, -8.0126, -8.0075, ..., 12.9942, 12.9963, 13.0009],
           grad_fn=<Unique2Backward0>)
8925 masks_dr unique: tensor([-8.0190, -8.0126, -8.0075, ..., 12.9942, 12.9963, 13.0009],
           grad_fn=<Unique2Backward0>)
8927 Epoch 27/499: 79% | 127/160 [20:17<05:16, 9.58s/it]print_dice: 0.
    5840335488319397, print_iou: 0.41246286034584045
8928 masks_dr unique: tensor([-7.4875, -7.4790, -7.4613, ..., 12.0337, 12.0356, 12.0371],
8929
           grad_fn=<Unique2Backward0>)
8930 masks_dr unique: tensor([-7.4875, -7.4790, -7.4613, ..., 12.0337, 12.0356, 12.0371],
           grad fn=<Unique2Backward0>)
8932 print_dice: 0.4546409845352173, print_iou: 0.2941976487636566
8933 Epoch 27/499: 80%| | 128/160 [20:27<05:06, 9.58s/it]masks_dr unique: tensor([-7.
    6731, -7.6518, -7.6428, ..., 12.2836, 12.2913, 12.2931],
           grad fn=<Unique2Backward0>)
8934
8935 masks_dr unique: tensor([-7.6731, -7.6518, -7.6428, ..., 12.2836, 12.2913, 12.2931],
           grad_fn=<Unique2Backward0>)
8936
8937 Epoch 27/499: 81%
                            | | 129/160 [20:36<04:56, 9.57s/it]print_dice: 0.
    4938483238220215,
                       print_iou: 0.32788750529289246
8938 masks dr unique: tensor([-8.0051, -8.0048, -7.9942, ..., 13.2281, 13.2296, 13.2306],
           grad_fn=<Unique2Backward0>)
8939
8940 masks dr unique: tensor([-8.0051, -8.0048, -7.9942, ..., 13.2281, 13.2296, 13.2306],
           grad fn=<Unique2Backward0>)
8941
8942 Epoch 27/499: 81%
                                | 130/160 [20:46<04:47, 9.58s/it]print_dice: 0.
    5696268081665039, print_iou: 0.3982365131378174
8943 masks dr unique: tensor([-7.7931, -7.7844, -7.7622, ..., 11.7811, 11.7813, 11.7844],
           grad fn=<Unique2Backward0>)
8944
8945 masks_dr unique: tensor([-7.7931, -7.7844, -7.7622, ..., 11.7811, 11.7813, 11.7844],
           grad_fn=<Unique2Backward0>)
8946
8947 Epoch 27/499: 82%| | 131/160 [20:55<04:37, 9.55s/it]print_dice: 0.
```

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print iou: 0.42708367109298706
8947 5985404849052429,
8948 masks_dr unique: tensor([-7.7936, -7.7849, -7.7626, ..., 11.7850, 11.7859, 11.7885],
           grad fn=<Unique2Backward0>)
8950 masks_dr unique: tensor([-7.7936, -7.7849, -7.7626, ..., 11.7850, 11.7859, 11.7885],
           grad fn=<Unique2Backward0>)
                                  print_iou: 0.3797360956668854
8952 print_dice: 0.550447404384613,
8953 Epoch 27/499: 82%| | 132/160 [21:05<04:28, 9.59s/it]masks_dr unique: tensor([-7.
    7949, -7.7862, -7.7640, ..., 11.7870, 11.7870, 11.7897],
8954
           grad_fn=<Unique2Backward0>)
8955 masks_dr unique: tensor([-7.7949, -7.7862, -7.7640, ..., 11.7870, 11.7870, 11.7897],
           grad_fn=<Unique2Backward0>)
8957 print_dice: 0.5444993376731873, print_iou: 0.374097615480423
8958 Epoch 27/499: 83%| 33 | 133/160 [21:14<04:17, 9.56s/it]masks_dr unique: tensor([-7.
    8739, -7.8726, -7.8657, ..., 13.1277, 13.1282, 13.1288],
8959
           grad_fn=<Unique2Backward0>)
8960 masks_dr unique: tensor([-7.8739, -7.8726, -7.8657, ..., 13.1277, 13.1282, 13.1288],
           grad fn=<Unique2Backward0>)
8962 print_dice: 0.5026569366455078, print_iou: 0.33569926023483276
8963 Epoch 27/499: 84%| 84%| | 134/160 [21:24<04:09, 9.59s/it]masks_dr unique: tensor([-7.
    7960, -7.7873, -7.7651, ..., 11.7807, 11.7810, 11.7840],
8964
           grad_fn=<Unique2Backward0>)
8965 masks_dr unique: tensor([-7.7960, -7.7873, -7.7651, ..., 11.7807, 11.7810, 11.7840],
8966
           grad_fn=<Unique2Backward0>)
8967 Epoch 27/499: 84%| | 135/160 [21:33<03:58, 9.54s/it]print_dice: 0.
    5411418080329895, print_iou: 0.3709351420402527
8968 masks_dr unique: tensor([-7.6332, -7.6222, -7.6140, ..., 11.6434, 11.6444, 11.6503],
8969
           grad fn=<Unique2Backward0>)
8970 masks dr unique: tensor([-7.6332, -7.6222, -7.6140, ..., 11.6434, 11.6444, 11.6503],
           grad fn=<Unique2Backward0>)
8971
8972 print_dice: 0.610560417175293, print_iou: 0.43942925333976746
8973 Epoch 27/499: 85%| | 136/160 [21:43<03:50, 9.59s/it]masks_dr unique: tensor([-7.
    7745, -7.7669, -7.7603, ..., 12.6501, 12.6516, 12.6520],
           grad fn=<Unique2Backward0>)
8975 masks_dr unique: tensor([-7.7745, -7.7669, -7.7603, ..., 12.6501, 12.6516, 12.6520],
8976
           grad_fn=<Unique2Backward0>)
8977 Epoch 27/499: 86%| | 137/160 [21:53<03:39, 9.53s/it]print_dice: 0.
    4569339156150818, print_iou: 0.2961207926273346
8978 masks dr unique: tensor([-7.7418, -7.7373, -7.7231, ..., 13.0181, 13.0185, 13.0234],
           grad_fn=<Unique2Backward0>)
8979
8980 masks_dr unique: tensor([-7.7418, -7.7373, -7.7231, ..., 13.0181, 13.0185, 13.0234],
           grad fn=<Unique2Backward0>)
8981
8982 Epoch 27/499: 86%| | | 138/160 [22:02<03:29, 9.54s/it]print_dice: 0.
    5508192777633667, print_iou: 0.3800901174545288
8983 masks_dr unique: tensor([-7.9231, -7.9090, -7.9052, ..., 13.1093, 13.1094, 13.1101],
8984
           grad_fn=<Unique2Backward0>)
8985 masks_dr unique: tensor([-7.9231, -7.9090, -7.9052, ..., 13.1093, 13.1094, 13.1101],
           grad_fn=<Unique2Backward0>)
8987 Epoch 27/499: 87% | 139/160 [22:12<03:19, 9.50s/it]print_dice: 0.
    5152438879013062, print_iou: 0.34702256321907043
8988 masks_dr unique: tensor([-7.7970, -7.7883, -7.7661, ..., 11.7826, 11.7835, 11.7856],
8989
           grad_fn=<Unique2Backward0>)
8990 masks_dr unique: tensor([-7.7970, -7.7883, -7.7661, ..., 11.7826, 11.7835, 11.7856],
8991
           grad fn=<Unique2Backward0>)
8992 Epoch 27/499: 88% | 140/160 [22:21<03:11, 9.56s/it]print_dice: 0.
    5375524759292603, print_iou: 0.3675704598426819
8993 masks_dr unique: tensor([-8.0411, -8.0410, -8.0304, ..., 13.2448, 13.2476, 13.2505],
           grad_fn=<Unique2Backward0>)
8994
8995 masks_dr unique: tensor([-8.0411, -8.0410, -8.0304, ..., 13.2448, 13.2476, 13.2505],
           grad_fn=<Unique2Backward0>)
8997 Epoch 27/499: 88%
    48062679171562195, print_iou: 0.31633228063583374
8998 masks dr unique: tensor([-7.7120, -7.7031, -7.6873, ..., 13.2354, 13.2362, 13.2408],
           grad_fn=<Unique2Backward0>)
8999
9000 masks dr unique: tensor([-7.7120, -7.7031, -7.6873, ..., 13.2354, 13.2362, 13.2408],
9001
           grad_fn=<Unique2Backward0>)
                            142/160 [22:40<02:51, 9.55s/it]print dice: 0.
9002 Epoch 27/499: 89%
                        print_iou: 0.3957825303077698
    5671120285987854,
9003 masks_dr unique: tensor([-7.6215, -7.6200, -7.6106, ..., 12.6400, 12.6403, 12.6407],
           grad fn=<Unique2Backward0>)
9004
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9005 masks_dr unique: tensor([-7.6215, -7.6200, -7.6106, ..., 12.6400, 12.6403, 12.6407],
           grad_fn=<Unique2Backward0>)
9007 print_dice: 0.5858520269393921, print_iou: 0.41427916288375854
8124, -7.8111, -7.7973, ..., 12.6431, 12.6482, 12.6505],
           grad fn=<Unique2Backward0>)
9009
9010 masks_dr unique: tensor([-7.8124, -7.8111, -7.7973, ..., 12.6431, 12.6482, 12.6505],
           grad_fn=<Unique2Backward0>)
9011
9012 Epoch 27/499: 90% | 144/160 [22:59<02:31, 9.48s/it]print_dice: 0.
    5070913434028625, print_iou: 0.3396666646003723
9013 masks_dr unique: tensor([-7.8045, -7.7966, -7.7887, ..., 12.7182, 12.7246, 12.7304],
           grad_fn=<Unique2Backward0>)
9014
9015 masks dr unique: tensor([-7.8045, -7.7966, -7.7887, ..., 12.7182, 12.7246, 12.7304],
           grad fn=<Unique2Backward0>)
9017 Epoch 27/499: 91%| | 145/160 [23:09<02:22, 9.53s/it]print_dice: 0.
    4703999161720276, print_iou: 0.30753129720687866
9018 masks_dr unique: tensor([-7.6175, -7.6074, -7.6001, ..., 12.0048, 12.0111, 12.0168],
           grad_fn=<Unique2Backward0>)
9020 masks_dr unique: tensor([-7.6175, -7.6074, -7.6001, ..., 12.0048, 12.0111, 12.0168],
           grad_fn=<Unique2Backward0>)
9022 Epoch 27/499: 91%| | 146/160 [23:18<02:14, 9.58s/it]print_dice: 0.
    5862454771995544, print_iou: 0.41467276215553284
9023 masks_dr unique: tensor([-7.7996, -7.7909, -7.7688, ..., 11.7883, 11.7894, 11.7920],
           grad fn=<Unique2Backward0>)
9025 masks_dr unique: tensor([-7.7996, -7.7909, -7.7688, ..., 11.7883, 11.7894, 11.7920],
           grad fn=<Unique2Backward0>)
9026
9027 Epoch 27/499: 92%| | 147/160 [23:28<02:04, 9.59s/it]print_dice: 0.
    5274204611778259, print_iou: 0.35816094279289246
9028 masks_dr unique: tensor([-7.5654, -7.5591, -7.5528, ..., 12.4583, 12.4593, 12.4628],
           grad_fn=<Unique2Backward0>)
9029
9030 masks_dr unique: tensor([-7.5654, -7.5591, -7.5528, ..., 12.4583, 12.4593, 12.4628],
9031
           grad_fn=<Unique2Backward0>)
                              | 148/160 [23:38<01:55, 9.62s/it]print_dice: 0.524537980556488
9032 Epoch 27/499: 92%|
        print_iou: 0.35550758242607117
9033 masks_dr unique: tensor([-7.8353, -7.8336, -7.8264, ..., 13.2242, 13.2250, 13.2286],
           grad_fn=<Unique2Backward0>)
9035 masks_dr unique: tensor([-7.8353, -7.8336, -7.8264, ..., 13.2242, 13.2250, 13.2286],
9036
           grad_fn=<Unique2Backward0>)
9037 print_dice: 0.44733506441116333,
                                    print_iou: 0.28810790181159973
9038 Epoch 27/499: 93%| 938| 149/160 [23:47<01:45, 9.61s/it]masks_dr unique: tensor([-7.
    8028, -7.7942, -7.7721, ..., 11.7874, 11.7885, 11.7911],
9039
           grad_fn=<Unique2Backward0>)
9040 masks_dr unique: tensor([-7.8028, -7.7942, -7.7721, ..., 11.7874, 11.7885, 11.7911],
           grad_fn=<Unique2Backward0>)
9042 print_dice: 0.570634663105011, print_iou: 0.39922240376472473
9043 Epoch 27/499: 94%| 94%| 150/160 [23:57<01:35, 9.60s/it]masks_dr unique: tensor([-8.
    1162, -8.1145, -8.1135, ..., 13.2282, 13.2293, 13.2317],
9044
           grad_fn=<Unique2Backward0>)
9045 masks_dr unique: tensor([-8.1162, -8.1145, -8.1135, ..., 13.2282, 13.2293, 13.2317],
           grad_fn=<Unique2Backward0>)
9047 Epoch 27/499: 94%| 94%| 151/160 [24:07<01:26, 9.60s/it]print_dice: 0.
    5609579682350159, print_iou: 0.38981348276138306
9048 masks_dr unique: tensor([-7.9800, -7.9688, -7.9600, ..., 13.0775, 13.0802, 13.0846],
9049
           grad_fn=<Unique2Backward0>)
9050 masks_dr unique: tensor([-7.9800, -7.9688, -7.9600, ..., 13.0775, 13.0802, 13.0846],
9051
           grad_fn=<Unique2Backward0>)
9052 print_dice: 0.5408186912536621, print_iou: 0.370631605386734
9053 Epoch 27/499: 95%
                        8059, -7.7972, -7.7750, ..., 11.7882, 11.7887, 11.7906],
9054
           grad_fn=<Unique2Backward0>)
9055 masks_dr unique: tensor([-7.8059, -7.7972, -7.7750, ..., 11.7882, 11.7887, 11.7906],
           grad_fn=<Unique2Backward0>)
9057 Epoch 27/499: 96%| 96%| 153/160 [24:26<01:07, 9.59s/it]print_dice: 0.
    6282695531845093, print_iou: 0.4580123722553253
9058 masks_dr unique: tensor([-7.9751, -7.9643, -7.9535, ..., 12.9212, 12.9214, 12.9218],
           grad fn=<Unique2Backward0>)
9059
9060 masks_dr unique: tensor([-7.9751, -7.9643, -7.9535, ..., 12.9212, 12.9214, 12.9218],
           grad fn=<Unique2Backward0>)
9061
9062 Epoch 27/499: 96%| 96%| 154/160 [24:35<00:57, 9.57s/it]print dice: 0.
```

```
print iou: 0.3851574957370758
9062 5561208724975586,
9063 masks_dr unique: tensor([-7.7243, -7.7079, -7.7002, ..., 12.1391, 12.1430, 12.1471],
           grad fn=<Unique2Backward0>)
9065 masks_dr unique: tensor([-7.7243, -7.7079, -7.7002, ..., 12.1391, 12.1430, 12.1471],
           grad_fn=<Unique2Backward0>)
9067 Epoch 27/499: 97%
                        155/160 [24:45<00:47, 9.56s/it]print_dice: 0.551013171672821
        print_iou: 0.38027480244636536
9068 masks_dr unique: tensor([-7.6009, -7.5985, -7.5806, ..., 12.0380, 12.0426, 12.0500],
           grad_fn=<Unique2Backward0>)
9070 masks dr unique: tensor([-7.6009, -7.5985, -7.5806, ..., 12.0380, 12.0426, 12.0500],
           grad fn=<Unique2Backward0>)
9072 Epoch 27/499: 98% 98% 156/160 [24:54<00:37, 9.49s/it]print_dice: 0.
    4283556342124939, print_iou: 0.2725525200366974
9073 masks dr unique: tensor([-7.8054, -7.7966, -7.7745, ..., 11.7914, 11.7916, 11.7944],
9074
           grad fn=<Unique2Backward0>)
9075 masks_dr unique: tensor([-7.8054, -7.7966, -7.7745, ..., 11.7914, 11.7916, 11.7944],
9076
           grad fn=<Unique2Backward0>)
9077 Epoch 27/499: 98%| 98%| 157/160 [25:03<00:28, 9.45s/it]print_dice: 0.
                      print_iou: 0.4511542320251465
    6217867136001587,
9078 masks_dr unique: tensor([-7.8026, -7.7939, -7.7717, ..., 11.7865, 11.7869, 11.7899],
9079
           grad_fn=<Unique2Backward0>)
9080 masks_dr unique: tensor([-7.8026, -7.7939, -7.7717, ..., 11.7865, 11.7869, 11.7899],
           grad fn=<Unique2Backward0>)
9081
9082 Epoch 27/499: 99%| 908 | 158/160 [25:13<00:18, 9.47s/it]print_dice: 0.
    5007867217063904, print_iou: 0.3340330123901367
9083 masks_dr unique: tensor([-7.8036, -7.7949, -7.7727, ..., 11.7907, 11.7911, 11.7941],
           grad fn=<Unique2Backward0>)
9085 masks_dr unique: tensor([-7.8036, -7.7949, -7.7727, ..., 11.7907, 11.7911, 11.7941],
9086
           grad fn=<Unique2Backward0>)
9087 print dice: 0.5966339707374573, print_iou: 0.4251449704170227
9088 Epoch 27/499: 99%| 900 | 159/160 [25:22<00:09, 9.44s/it]masks_dr unique: tensor([-7.
    8021, -7.7934, -7.7713, ..., 11.7932, 11.7934, 11.7965],
           grad fn=<Unique2Backward0>)
9090 masks_dr unique: tensor([-7.8021, -7.7934, -7.7713, ..., 11.7932, 11.7934, 11.7965],
           grad_fn=<Unique2Backward0>)
9092 print_dice: 0.5570866465568542, print_iou: 0.3860846161842346
9093
      [159/160] eta: 0:00:09 time: 9.5249 data: 0.0005
9094 Epoch 27/499: 100% | 160/160 [25:33<00:00, 9.58s/it]
9095 Total time: 0:25:33 (9.5814 s / it)
9096 Averaged stats: training_loss: 71.9934 (71.9934) loss_mask: 71.7212 (71.7212) loss_dice: 0
    .2722 (0.2722)
9097 Net parameter norm: 1054.4249908543425
9098 Validating...
9099 Valid dataloader len: 12
9100
                   | 0/12 [00:00<?, ?it/s]masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique
    sigmoid values: tensor([2.0011e-04, 2.0590e-04, 2.3649e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
9101
9102 masks_dr unique: tensor([3.9876e-04, 4.0048e-04, 4.0447e-04, ..., 1.0000e+00, 1.0000e+00,
9103
            1.0000e+00], grad_fn=<Unique2Backward0>)
9104 print_dice: 0.571906328201294, print_iou: 0.4004683792591095
      [ 0/12] eta: 0:02:06
9105
                             time: 10.5125 data: 4.9008
9106
                  | 1/12 [00:10<01:55, 10.51s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.8449e-04, 4.1066e-04, 4.2657e-04, ..., 9.9999e-01, 9.
    9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
9108 masks_dr unique: tensor([7.3213e-04, 7.4260e-04, 7.5306e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
9109
9110 print_dice: 0.611321747303009, print_iou: 0.44021841883659363
                   ]) unique sigmoid values: tensor([3.0552e-04, 3.7728e-04, 3.8399e-04, ..., 1.0000e+00, 1.
    0000e+00,
            1.0000e+00], grad_fn=<Unique2Backward0>)
9112
9113 masks_dr unique: tensor([5.6667e-04, 5.6961e-04, 5.7059e-04, ..., 1.0000e+00, 1.0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
9114
9115 print_dice: 0.5414285063743591, print_iou: 0.3712046146392822
                   ]) unique sigmoid values: tensor([2.2439e-04, 2.5328e-04, 2.5862e-04, ..., 1.0000e+00, 1.
    0000e+00,
9117
            1.0000e+00], grad fn=<Unique2Backward0>)
```

```
9118 masks dr unique: tensor([3.7096e-04, 3.7196e-04, 3.7705e-04, ..., 1.0000e+00, 1.0000e+00,
9119
            1.0000e+00], grad fn=<Unique2Backward0>)
9120 33%
                   | 4/12 [00:28<00:52, 6.53s/it]print dice: 0.522343099117279, print iou: 0.
    35349416732788086
9121 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.0425e-04, 3.
    1098e-04, 3.2575e-04, ..., 9.9999e-01, 9.9999e-01,
9122
            9.9999e-01], grad_fn=<Unique2Backward0>)
9123 masks_dr unique: tensor([4.6537e-04, 4.6924e-04, 4.8098e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
9125 print dice: 0.5886324048042297, print iou: 0.41706526279449463
                   | 5/12 [00:33<00:43, 6.26s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.0587e-04, 3.4017e-04, 3.5390e-04, ..., 1.0000e+00, 1.
    0000e+00,
            1.0000e+00], grad fn=<Unique2Backward0>)
9127
9128 masks_dr unique: tensor([4.8193e-04, 4.8637e-04, 4.8755e-04, ..., 1.0000e+00, 1.0000e+00,
9129
            1.0000e+00], grad fn=<Unique2Backward0>)
9130 print dice: 0.5179702043533325, print iou: 0.34950053691864014
                   6/12 [00:39<00:36, 6.06s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.0484e-04, 3.1007e-04, 3.2642e-04, ..., 9.9999e-01, 9.
    9999e-01,
9132
            9.9999e-01], grad_fn=<Unique2Backward0>)
9133 masks_dr unique: tensor([3.2176e-04, 3.3128e-04, 3.4044e-04, ..., 9.9999e-01, 9.9999e-01,
9134
            9.9999e-01], grad_fn=<Unique2Backward0>)
9135 58%
                   | 7/12 [00:45<00:30, 6.11s/it]print_dice: 0.44449716806411743, print_iou: 0
     .2857578694820404
9136 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.0449e-04, 3.
    1155e-04, 3.2615e-04, ..., 9.9999e-01, 9.9999e-01,
9137
            9.9999e-01], grad fn=<Unique2Backward0>)
9138 masks_dr unique: tensor([4.6544e-04, 4.6927e-04, 4.8097e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
9140 print dice: 0.5551366806030273, print iou: 0.38421395421028137
             8/12 [00:51<00:23, 5.98s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
    ]) unique sigmoid values: tensor([3.9675e-04, 4.0327e-04, 4.0356e-04, ..., 1.0000e+00, 1.
    0000e+00,
9142
            1.0000e+00], grad_fn=<Unique2Backward0>)
9143 masks_dr unique: tensor([6.0924e-04, 6.1153e-04, 6.1384e-04, ..., 1.0000e+00, 1.0000e+00,
9144
            1.0000e+00], grad_fn=<Unique2Backward0>)
9145 print_dice: 0.572994589805603, print_iou: 0.40153640508651733
                | 9/12 [00:57<00:18, 6.04s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([3.0458e-04, 3.1153e-04, 3.2589e-04, ..., 9.9999e-01, 9.
    9999e-01,
9147
            9.9999e-01], grad_fn=<Unique2Backward0>)
9148 masks_dr unique: tensor([4.6499e-04, 4.6886e-04, 4.8060e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad fn=<Unique2Backward0>)
                 10/12 [01:03<00:11, 5.93s/it]print_dice: 0.5891399383544922, print_iou: 0</pre>
9150 83%||
     .41757503151893616
9151 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.0595e-04, 3.
    4743e-04, 3.7854e-04, ..., 1.0000e+00, 1.0000e+00,
9152
            1.0000e+00], grad_fn=<Unique2Backward0>)
9153 masks_dr unique: tensor([5.3593e-04, 5.3745e-04, 5.3919e-04, ..., 1.0000e+00, 1.0000e+00,
9154
            1.0000e+00], grad_fn=<Unique2Backward0>)
9155 92%
                  | | 11/12 [01:08<00:05, 5.86s/it]print_dice: 0.6249974370002747, print_iou: 0
     .45454272627830505
9156 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.9333e-04, 3.
    1033e-04, 3.3000e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
9157
9158 masks_dr unique: tensor([5.8731e-04, 5.9606e-04, 5.9916e-04, ..., 9.9999e-01, 9.9999e-01,
            9.9999e-01], grad_fn=<Unique2Backward0>)
9160 print_dice: 0.5938441753387451, print_iou: 0.4223174452781677
                               time: 6.2178 data: 0.4087
9161
       [11/12] eta: 0:00:06
9162 100%
          12/12 [01:15<00:00, 6.26s/it]
9163 Total time: 0:01:15 (6.2551 s / it)
9164 ===========
9165 Averaged stats:
9166 Epoch 28/499:
                                 | 0/160 [00:00<?, ?it/s]epoch:
                    0%|
                                                                   28
                                                                        learning rate:
                                                                                         1e-07
9167 masks_dr unique: tensor([-7.8026, -7.7938, -7.7718, ..., 11.7939, 11.7942, 11.7972],
9168
           grad fn=<Unique2Backward0>)
9169 masks_dr unique: tensor([-7.8026, -7.7938, -7.7718, ..., 11.7939, 11.7942, 11.7972],
9170
           grad fn=<Unique2Backward0>)
```

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9171 print dice: 0.5739641189575195, print iou: 0.40248924493789673
     [ 0/160] eta: 0:36:47 time: 13.7981 data: 4.1803
9173 Epoch 28/499: 1%
                                 1/160 [00:13<36:33, 13.80s/it]masks dr unique: tensor([-7.
    8995, -7.8975, -7.8836, ..., 13.2416, 13.2421, 13.2423],
           grad fn=<Unique2Backward0>)
9175 masks_dr unique: tensor([-7.8995, -7.8975, -7.8836, ..., 13.2416, 13.2421, 13.2423],
           grad_fn=<Unique2Backward0>)
9176
9177 print_dice: 0.5751590132713318, print_iou: 0.4036654233932495
9178 Epoch 28/499: 1%||
                         2/160 [00:23<29:43, 11.29s/it]masks_dr unique: tensor([-7.
    5425, -7.5355, -7.5229, ..., 12.2454, 12.2512, 12.2567],
9179
           grad fn=<Unique2Backward0>)
9180 masks_dr unique: tensor([-7.5425, -7.5355, -7.5229, ..., 12.2454, 12.2512, 12.2567],
           grad_fn=<Unique2Backward0>)
9181
9182 Epoch 28/499:
                    2%||
                                 3/160 [00:32<27:23, 10.47s/it]print dice: 0.45118117332458496
        print iou: 0.29130661487579346
9183 masks_dr unique: tensor([-7.6113, -7.6103, -7.6022, ..., 13.1821, 13.1824, 13.1829],
           grad_fn=<Unique2Backward0>)
9185 masks dr unique: tensor([-7.6113, -7.6103, -7.6022, ..., 13.1821, 13.1824, 13.1829],
9186
           grad_fn=<Unique2Backward0>)
9187 print_dice: 0.5310440063476562, print_iou: 0.3615111708641052
9188 Epoch 28/499: 2%|| 4/160 [00:42<26:19, 10.13s/it]masks_dr unique: tensor([-7.
    8597, -7.8517, -7.8438, ..., 13.4116, 13.4124, 13.4171],
9189
           grad fn=<Unique2Backward0>)
9190 masks dr unique: tensor([-7.8597, -7.8517, -7.8438, ..., 13.4116, 13.4124, 13.4171],
           grad_fn=<Unique2Backward0>)
9192 Epoch 28/499:
                                 5/160 [00:51<25:30, 9.88s/it]print_dice: 0.600666344165802
                    3%||
        print iou: 0.42925170063972473
9193 masks_dr unique: tensor([-8.0911, -8.0876, -8.0807, ..., 12.9862, 12.9863, 12.9911],
           grad_fn=<Unique2Backward0>)
9195 masks_dr unique: tensor([-8.0911, -8.0876, -8.0807, ..., 12.9862, 12.9863, 12.9911],
           grad_fn=<Unique2Backward0>)
9197 print_dice: 0.517334520816803, print_iou: 0.3489219546318054
9198 Epoch 28/499: 4%|■
                           | 6/160 [01:01<24:59, 9.74s/it]masks_dr unique: tensor([-7.
    8035, -7.7947, -7.7726, ..., 11.7972, 11.7993, 11.8025],
9199
           grad fn=<Unique2Backward0>)
9200 masks_dr unique: tensor([-7.8035, -7.7947, -7.7726, ..., 11.7972, 11.7993, 11.8025],
9201
           grad_fn=<Unique2Backward0>)
9202 print_dice: 0.5220699906349182, print_iou: 0.3532440662384033
9203 Epoch 28/499: 4%|■
                          | 7/160 [01:10<24:29, 9.61s/it]masks_dr unique: tensor([-7.
    8021, -7.7934, -7.7713, ..., 11.7946, 11.7970, 11.7976],
9204
           grad_fn=<Unique2Backward0>)
9205 masks_dr unique: tensor([-7.8021, -7.7934, -7.7713, ..., 11.7946, 11.7970, 11.7976],
9206
           grad_fn=<Unique2Backward0>)
9207 Epoch 28/499:
                    5%||
                                 8/160 [01:20<24:10, 9.54s/it]print_dice: 0.49237093329429626
        print_iou: 0.3265862464904785
9208 masks_dr unique: tensor([-7.7753, -7.7633, -7.7594, ..., 12.8324, 12.8328, 12.8334],
           grad_fn=<Unique2Backward0>)
9209
9210 masks_dr unique: tensor([-7.7753, -7.7633, -7.7594, ..., 12.8324, 12.8328, 12.8334],
           grad fn=<Unique2Backward0>)
9211
9212 Epoch 28/499: 6%
                                 9/160 [01:29<23:59, 9.53s/it]print_dice: 0.5313676595687866
        print_iou: 0.36181122064590454
9213 masks_dr unique: tensor([-7.6348, -7.6252, -7.6161, ..., 12.1289, 12.1329, 12.1378],
           grad_fn=<Unique2Backward0>)
9215 masks_dr unique: tensor([-7.6348, -7.6252, -7.6161, ..., 12.1289, 12.1329, 12.1378],
           grad_fn=<Unique2Backward0>)
9217 Epoch 28/499: 6%|■
                                 | 10/160 [01:39<23:45, 9.50s/it]print_dice: 0.4977615177631378
        print iou: 0.3313465416431427
9218 masks dr unique: tensor([-7.8222, -7.8125, -7.8004, ..., 12.5622, 12.5636, 12.5695],
           grad fn=<Unique2Backward0>)
9220 masks_dr unique: tensor([-7.8222, -7.8125, -7.8004, ..., 12.5622, 12.5636, 12.5695],
           grad_fn=<Unique2Backward0>)
9221
                                 11/160 [01:48<23:41, 9.54s/it]print dice: 0.5643770694732666
9222 Epoch 28/499:
                    7%|
        print_iou: 0.39312347769737244
9223 masks dr unique: tensor([-7.6613, -7.6612, -7.6588, ..., 12.2471, 12.2541, 12.2604],
           grad fn=<Unique2Backward0>)
9225 masks dr unique: tensor([-7.6613, -7.6612, -7.6588, ..., 12.2471, 12.2541, 12.2604],
           grad fn=<Unique2Backward0>)
9226
9227 print_dice: 0.4936472475528717,
                                    print_iou: 0.32771027088165283
9228 Epoch 28/499:
                    8%|
                                 | 12/160 [01:58<23:36, 9.57s/it]masks_dr unique: tensor([-7.
```

```
9228 8544, -7.8449, -7.8367, ..., 11.9458, 11.9532, 11.9583],
           grad_fn=<Unique2Backward0>)
9230 masks dr unique: tensor([-7.8544, -7.8449, -7.8367, ..., 11.9458, 11.9532, 11.9583],
9231
           grad fn=<Unique2Backward0>)
                    8%
                                 | 13/160 [02:07<23:22, 9.54s/it]print dice: 0.
9232 Epoch 28/499:
    43748238682746887,
                         print_iou: 0.27998557686805725
9233 masks dr unique: tensor([-7.8151, -7.8075, -7.7926, ..., 12.0820, 12.0870, 12.0941],
9234
           grad_fn=<Unique2Backward0>)
9235 masks_dr unique: tensor([-7.8151, -7.8075, -7.7926, ..., 12.0820, 12.0870, 12.0941],
9236
           grad fn=<Unique2Backward0>)
9237 print dice: 0.5697190165519714, print iou: 0.3983266055583954
9238 Epoch 28/499: 9%| | 14/160 [02:17<23:20, 9.59s/it]masks dr unique: tensor([-7.
    8025, -7.7935, -7.7713, ..., 11.8032, 11.8040, 11.8070],
           grad fn=<Unique2Backward0>)
9239
9240 masks_dr unique: tensor([-7.8025, -7.7935, -7.7713, ..., 11.8032, 11.8040, 11.8070],
           grad_fn=<Unique2Backward0>)
9242 print dice: 0.5433841347694397, print_iou: 0.37304556369781494
9243 Epoch 28/499:
                    9%|
                               | 15/160 [02:26<23:07, 9.57s/it]masks_dr unique: tensor([-7.
    5739, -7.5583, -7.5562, ..., 12.0227, 12.0229, 12.0311],
9244
           grad_fn=<Unique2Backward0>)
9245 masks_dr unique: tensor([-7.5739, -7.5583, -7.5562, ..., 12.0227, 12.0229, 12.0311],
           grad_fn=<Unique2Backward0>)
9247 print_dice: 0.4761487543582916, print_iou: 0.31246405839920044
9248 Epoch 28/499: 10%
                           | 16/160 [02:36<23:00, 9.59s/it]masks_dr unique: tensor([-7.
    5903, -7.5769, -7.5700, ..., 11.9184, 11.9196, 11.9220],
           grad fn=<Unique2Backward0>)
9249
9250 masks dr unique: tensor([-7.5903, -7.5769, -7.5700, ..., 11.9184, 11.9196, 11.9220],
9251
           grad fn=<Unique2Backward0>)
9252 print_dice: 0.5521660447120667, print_iou: 0.3813738524913788
9253 Epoch 28/499: 11%
                                 | 17/160 [02:46<22:43, 9.53s/it]masks dr unique: tensor([-7.
    9777, -7.9743, -7.9618, ..., 12.4489, 12.4555, 12.4605],
9254
           grad_fn=<Unique2Backward0>)
9255 masks_dr unique: tensor([-7.9777, -7.9743, -7.9618, ..., 12.4489, 12.4555, 12.4605],
9256
           grad fn=<Unique2Backward0>)
9257 Epoch 28/499: 11%
                                 | 18/160 [02:55<22:43, 9.60s/it]print_dice: 0.5516879558563232
        print_iou: 0.38091787695884705
9258 masks_dr unique: tensor([-7.5702, -7.5586, -7.5495, ..., 11.2237, 11.2284, 11.2334],
           grad_fn=<Unique2Backward0>)
9260 masks_dr unique: tensor([-7.5702, -7.5586, -7.5495, ..., 11.2237, 11.2284, 11.2334],
           grad fn=<Unique2Backward0>)
9261
                                 | 19/160 [03:05<22:27, 9.55s/it]print_dice: 0.5890412330627441
9262 Epoch 28/499: 12%
        print_iou: 0.4174758493900299
9263 masks_dr unique: tensor([-7.8055, -7.7963, -7.7743, ..., 11.8046, 11.8065, 11.8098],
           grad_fn=<Unique2Backward0>)
9265 masks_dr unique: tensor([-7.8055, -7.7963, -7.7743, ..., 11.8046, 11.8065, 11.8098],
9266
           grad_fn=<Unique2Backward0>)
9267 Epoch 28/499: 12%
                                 20/160 [03:14<22:24, 9.61s/it]print_dice: 0.5339729189872742
        print_iou: 0.36423125863075256
9268 masks_dr unique: tensor([-7.6679, -7.6531, -7.6336, ..., 12.0364, 12.0412, 12.0472],
9269
           grad fn=<Unique2Backward0>)
9270 masks_dr unique: tensor([-7.6679, -7.6531, -7.6336, ..., 12.0364, 12.0412, 12.0472],
           grad fn=<Unique2Backward0>)
9271
                                 21/160 [03:24<22:09, 9.57s/it]print_dice: 0.523970365524292
9272 Epoch 28/499: 13%
        print_iou: 0.3549863398075104
9273 masks_dr unique: tensor([-7.7730, -7.7693, -7.7547, ..., 12.2569, 12.2579, 12.2593],
9274
           grad_fn=<Unique2Backward0>)
9275 masks_dr unique: tensor([-7.7730, -7.7693, -7.7547, ..., 12.2569, 12.2579, 12.2593],
           grad_fn=<Unique2Backward0>)
9276
9277 Epoch 28/499: 14%
                                 | 22/160 [03:33<21:59, 9.56s/it]print_dice: 0.5251801609992981
        print_iou: 0.35609784722328186
9278 masks_dr unique: tensor([-7.8037, -7.7945, -7.7725, ..., 11.8011, 11.8024, 11.8038],
           grad_fn=<Unique2Backward0>)
9279
9280 masks_dr unique: tensor([-7.8037, -7.7945, -7.7725, ..., 11.8011, 11.8024, 11.8038],
9281
           grad fn=<Unique2Backward0>)
9282 Epoch 28/499: 14%
                                 23/160 [03:43<21:43, 9.52s/it]print_dice: 0.4727432429790497
        print iou: 0.30953750014305115
9283 masks_dr unique: tensor([-7.4860, -7.4627, -7.4623, ..., 12.2473, 12.2524, 12.2592],
           grad_fn=<Unique2Backward0>)
9285 masks dr unique: tensor([-7.4860, -7.4627, -7.4623, ..., 12.2473, 12.2524, 12.2592],
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```
grad fn=<Unique2Backward0>)
9287 Epoch 28/499: 15%
                                 | 24/160 [03:53<21:38, 9.55s/it]print_dice: 0.5465819239616394
        print iou: 0.37606656551361084
9288 masks dr unique: tensor([-7.4086, -7.3851, -7.3787, ..., 11.9375, 11.9399, 11.9479],
           grad_fn=<Unique2Backward0>)
9290 masks dr unique: tensor([-7.4086, -7.3851, -7.3787, ..., 11.9375, 11.9399, 11.9479],
           grad fn=<Unique2Backward0>)
9291
9292 Epoch 28/499: 16%
                                 25/160 [04:02<21:28, 9.54s/it]print_dice: 0.5350130200386047
        print_iou: 0.36519983410835266
9293 masks_dr unique: tensor([-7.8042, -7.7949, -7.7731, ..., 11.7993, 11.7998, 11.8027],
           grad fn=<Unique2Backward0>)
9294
9295 masks_dr unique: tensor([-7.8042, -7.7949, -7.7731, ..., 11.7993, 11.7998, 11.8027],
           grad_fn=<Unique2Backward0>)
9296
9297 Epoch 28/499: 16%
                                 26/160 [04:11<21:15, 9.52s/it]print dice: 0.5124834775924683
        print iou: 0.3445228934288025
9298 masks_dr unique: tensor([-7.9787, -7.9677, -7.9665, ..., 12.3459, 12.3517, 12.3583],
           grad fn=<Unique2Backward0>)
9300 masks dr unique: tensor([-7.9787, -7.9677, -7.9665, ..., 12.3459, 12.3517, 12.3583],
9301
           grad_fn=<Unique2Backward0>)
9302 print_dice: 0.650958776473999, print_iou: 0.48253434896469116
9303 Epoch 28/499: 17%|■■ | 27/160 [04:21<21:02, 9.50s/it]masks_dr unique: tensor([-7.
    5666, -7.5516, -7.5476, ..., 12.6010, 12.6021, 12.6069],
9304
           grad fn=<Unique2Backward0>)
9305 masks dr unique: tensor([-7.5666, -7.5516, -7.5476, ..., 12.6010, 12.6021, 12.6069],
           grad fn=<Unique2Backward0>)
9307 Epoch 28/499: 18%
                                28/160 [04:30<20:54, 9.51s/it]print_dice: 0.5044105052947998
        print iou: 0.33726534247398376
9308 masks_dr unique: tensor([-7.5409, -7.5276, -7.5255, ..., 11.9378, 11.9447, 11.9494],
           grad_fn=<Unique2Backward0>)
9310 masks_dr unique: tensor([-7.5409, -7.5276, -7.5255, ..., 11.9378, 11.9447, 11.9494],
           grad_fn=<Unique2Backward0>)
9312 Epoch 28/499: 18%
                                 29/160 [04:40<20:44, 9.50s/it]print_dice: 0.4944179058074951
        print_iou: 0.32838985323905945
9313 masks_dr unique: tensor([-7.8057, -7.7962, -7.7746, ..., 11.8030, 11.8036, 11.8065],
           grad fn=<Unique2Backward0>)
9315 masks_dr unique: tensor([-7.8057, -7.7962, -7.7746, ..., 11.8030, 11.8036, 11.8065],
9316
           grad_fn=<Unique2Backward0>)
9317 print_dice: 0.5688150525093079, print_iou: 0.3974434435367584
9318 Epoch 28/499: 19%
    0672, -8.0567, -8.0461, ..., 13.1149, 13.1151, 13.1155],
9319
           grad fn=<Unique2Backward0>)
9320 masks_dr unique: tensor([-8.0672, -8.0567, -8.0461, ..., 13.1149, 13.1151, 13.1155],
9321
           grad_fn=<Unique2Backward0>)
9322 Epoch 28/499: 19%
                                 | 31/160 [04:59<20:28, 9.53s/it]print_dice: 0.6023275852203369
        print_iou: 0.43095046281814575
9323 masks_dr unique: tensor([-7.5603, -7.5540, -7.5363, ..., 12.1891, 12.1912, 12.1944],
           grad_fn=<Unique2Backward0>)
9324
9325 masks_dr unique: tensor([-7.5603, -7.5540, -7.5363, ..., 12.1891, 12.1912, 12.1944],
           grad fn=<Unique2Backward0>)
9326
9327 Epoch 28/499: 20%
                                | 32/160 [05:09<20:16, 9.50s/it]print_dice: 0.5220513343811035
        print iou: 0.3532269597053528
9328 masks_dr unique: tensor([-7.8061, -7.7965, -7.7751, ..., 11.8046, 11.8057, 11.8083],
           grad_fn=<Unique2Backward0>)
9330 masks_dr unique: tensor([-7.8061, -7.7965, -7.7751, ..., 11.8046, 11.8057, 11.8083],
           grad_fn=<Unique2Backward0>)
9332 Epoch 28/499: 21%
                           | 33/160 [05:18<20:09, 9.53s/it]print_dice: 0.5343202352523804
        print iou: 0.3645545542240143
9333 masks_dr unique: tensor([-7.5659, -7.5544, -7.5398, ..., 11.8679, 11.8706, 11.8761],
           grad_fn=<Unique2Backward0>)
9335 masks_dr unique: tensor([-7.5659, -7.5544, -7.5398, ..., 11.8679, 11.8706, 11.8761],
           grad_fn=<Unique2Backward0>)
9336
9337 Epoch 28/499: 21%
                                 34/160 [05:28<20:01, 9.54s/it]print_dice: 0.4626595973968506
        print_iou: 0.30094805359840393
9338 masks_dr unique: tensor([-6.9716, -6.9608, -6.9607, ..., 11.5088, 11.5110, 11.5112],
           grad_fn=<Unique2Backward0>)
9340 masks_dr unique: tensor([-6.9716, -6.9608, -6.9607, ..., 11.5088, 11.5110, 11.5112],
9341
           grad fn=<Unique2Backward0>)
                                 | 35/160 [05:37<19:49, 9.51s/it]print_dice: 0.5706608295440674
9342 Epoch 28/499: 22%
        print_iou: 0.39924803376197815
```

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9343 masks dr unique: tensor([-8.0183, -8.0173, -7.9887, ..., 12.4990, 12.5042, 12.5102],
           grad fn=<Unique2Backward0>)
9345 masks dr unique: tensor([-8.0183, -8.0173, -7.9887, ..., 12.4990, 12.5042, 12.5102],
9346
           grad fn=<Unique2Backward0>)
9347 print dice: 0.5926481485366821, print_iou: 0.4211086928844452
9348 Epoch 28/499: 22%
    7987, -7.7895, -7.7798, ..., 11.9974, 12.0025, 12.0074],
9349
           grad_fn=<Unique2Backward0>)
9350 masks_dr unique: tensor([-7.7987, -7.7895, -7.7798, ..., 11.9974, 12.0025, 12.0074],
           grad fn=<Unique2Backward0>)
9351
9352 Epoch 28/499: 23%
                               37/160 [05:56<19:29, 9.50s/it]print_dice: 0.5261865854263306
        print_iou: 0.35702386498451233
9353 masks_dr unique: tensor([-7.8063, -7.7966, -7.7754, ..., 11.8048, 11.8060, 11.8085],
           grad fn=<Unique2Backward0>)
9354
9355 masks_dr unique: tensor([-7.8063, -7.7966, -7.7754, ..., 11.8048, 11.8060, 11.8085],
           grad_fn=<Unique2Backward0>)
9356
9357 Epoch 28/499: 24%
                               | 38/160 [06:06<19:23, 9.53s/it]print_dice: 0.5152620077133179
        print_iou: 0.34703901410102844
9358 masks_dr unique: tensor([-7.8052, -7.7955, -7.7743, ..., 11.8034, 11.8040, 11.8068],
           grad_fn=<Unique2Backward0>)
9360 masks_dr unique: tensor([-7.8052, -7.7955, -7.7743, ..., 11.8034, 11.8040, 11.8068],
           grad_fn=<Unique2Backward0>)
9362 Epoch 28/499: 24%
                               | 39/160 [06:15<19:10, 9.51s/it]print_dice: 0.5343762040138245
        print iou: 0.364606648683548
9363 masks_dr unique: tensor([-7.8063, -7.7966, -7.7754, ..., 11.8052, 11.8058, 11.8087],
9364
           grad_fn=<Unique2Backward0>)
9365 masks dr unique: tensor([-7.8063, -7.7966, -7.7754, ..., 11.8052, 11.8058, 11.8087],
9366
           grad fn=<Unique2Backward0>)
9367 print dice: 0.5439553260803223, print_iou: 0.37358424067497253
9368 Epoch 28/499: 25%
                               | 40/160 [06:25<18:58, 9.49s/it]masks dr unique: tensor([-8.
    2039, -8.2035, -8.1893, ..., 13.4312, 13.4317, 13.4324],
9369
           grad_fn=<Unique2Backward0>)
9370 masks dr unique: tensor([-8.2039, -8.2035, -8.1893, ..., 13.4312, 13.4317, 13.4324],
9371
           grad_fn=<Unique2Backward0>)
9372 print_dice: 0.572057843208313, print_iou: 0.40061694383621216
9373 Epoch 28/499: 26%| 41/160 [06:34<18:50, 9.50s/it]masks_dr unique: tensor([-7.
    3447, -7.3422, -7.3398, ..., 12.8599, 12.8612, 12.8615],
9374
           grad_fn=<Unique2Backward0>)
9375 masks_dr unique: tensor([-7.3447, -7.3422, -7.3398, ..., 12.8599, 12.8612, 12.8615],
           grad fn=<Unique2Backward0>)
9376
9377 print_dice: 0.5038246512413025, print_iou: 0.33674174547195435
9378 Epoch 28/499: 26%
    6631, -7.6584, -7.6446, ..., 11.9724, 11.9775, 11.9832],
           grad fn=<Unique2Backward0>)
9380 masks_dr unique: tensor([-7.6631, -7.6584, -7.6446, ..., 11.9724, 11.9775, 11.9832],
9381
           grad_fn=<Unique2Backward0>)
9382 Epoch 28/499: 27%
                               43/160 [06:53<18:33, 9.51s/it]print_dice: 0.4290052652359009
        print_iou: 0.2730787396430969
9383 masks_dr unique: tensor([-7.8585, -7.8580, -7.8498, ..., 12.9901, 12.9925, 12.9929],
           grad fn=<Unique2Backward0>)
9385 masks_dr unique: tensor([-7.8585, -7.8580, -7.8498, ..., 12.9901, 12.9925, 12.9929],
9386
           grad_fn=<Unique2Backward0>)
9387 print_dice: 0.5006024241447449, print_iou: 0.33386901021003723
9388 Epoch 28/499: 28%
    8670, -7.8661, -7.8552, ..., 13.1373, 13.1373, 13.1379],
9389
           grad_fn=<Unique2Backward0>)
9390 masks_dr unique: tensor([-7.8670, -7.8661, -7.8552, ..., 13.1373, 13.1373, 13.1379],
9391
           grad_fn=<Unique2Backward0>)
9392 Epoch 28/499: 28%
                                45/160 [07:13<18:31, 9.66s/it]print_dice: 0.5493928790092468
        print_iou: 0.3787330687046051
9393 masks_dr unique: tensor([-7.8059, -7.7964, -7.7752, ..., 11.8071, 11.8080, 11.8106],
           grad fn=<Unique2Backward0>)
9395 masks_dr unique: tensor([-7.8059, -7.7964, -7.7752, ..., 11.8071, 11.8080, 11.8106],
           grad fn=<Unique2Backward0>)
9396
9397 print_dice: 0.47628191113471985,
                                     print_iou: 0.3125787675380707
9398 Epoch 28/499: 29%
                               46/160 [07:22<18:11, 9.57s/it]masks_dr unique: tensor([-7.
    4758, -7.4692, -7.4626, ..., 13.0409, 13.0416, 13.0445],
           grad_fn=<Unique2Backward0>)
9399
9400 masks dr unique: tensor([-7.4758, -7.4692, -7.4626, ..., 13.0409, 13.0416, 13.0445],
```

```
grad fn=<Unique2Backward0>)
9401
9402 Epoch 28/499: 29%
                                47/160 [07:32<18:02, 9.58s/it]print dice: 0.5655094981193542
        print iou: 0.39422324299812317
9403 masks_dr unique: tensor([-8.0116, -7.9990, -7.9921, ..., 13.1545, 13.1571, 13.1613],
           grad_fn=<Unique2Backward0>)
9405 masks_dr unique: tensor([-8.0116, -7.9990, -7.9921, ..., 13.1545, 13.1571, 13.1613],
           grad fn=<Unique2Backward0>)
9406
9407 Epoch 28/499: 30%
                                48/160 [07:41<17:51, 9.57s/it]print_dice: 0.5421469211578369
        print_iou: 0.37188032269477844
9408 masks_dr unique: tensor([-7.8319, -7.8175, -7.8121, ..., 12.0608, 12.0673, 12.0720],
           grad fn=<Unique2Backward0>)
9410 masks_dr unique: tensor([-7.8319, -7.8175, -7.8121, ..., 12.0608, 12.0673, 12.0720],
           grad_fn=<Unique2Backward0>)
9411
                                49/160 [07:51<17:40, 9.55s/it]print_dice: 0.5500214695930481
9412 Epoch 28/499: 31%
        print iou: 0.3793307840824127
9413 masks dr unique: tensor([-7.8042, -7.7948, -7.7737, ..., 11.8056, 11.8063, 11.8091],
           grad fn=<Unique2Backward0>)
9415 masks dr unique: tensor([-7.8042, -7.7948, -7.7737, ..., 11.8056, 11.8063, 11.8091],
9416
           grad_fn=<Unique2Backward0>)
9417 print_dice: 0.5332433581352234, print_iou: 0.36355268955230713
9418 Epoch 28/499: 31% 50/160 [08:00<17:27, 9.52s/it]masks_dr unique: tensor([-7.
    8058, -7.7963, -7.7752, ..., 11.8097, 11.8106, 11.8133],
9419
           grad_fn=<Unique2Backward0>)
9420 masks dr unique: tensor([-7.8058, -7.7963, -7.7752, ..., 11.8097, 11.8106, 11.8133],
           grad fn=<Unique2Backward0>)
9422 Epoch 28/499: 32%
                                51/160 [08:10<17:22, 9.56s/it]print_dice: 0.549137532711029
        print iou: 0.3784904181957245
9423 masks dr unique: tensor([-7.5477, -7.5417, -7.5357, ..., 12.4789, 12.4799, 12.4833],
           grad_fn=<Unique2Backward0>)
9425 masks_dr unique: tensor([-7.5477, -7.5417, -7.5357, ..., 12.4789, 12.4799, 12.4833],
           grad_fn=<Unique2Backward0>)
9427 print_dice: 0.5236570835113525, print_iou: 0.3546988368034363
9428 Epoch 28/499: 32% 52/160 [08:20<17:17, 9.60s/it]masks dr unique: tensor([-7.
    8038, -7.7943, -7.7734, ..., 11.8075, 11.8094, 11.8115],
9429
           grad_fn=<Unique2Backward0>)
9430 masks_dr unique: tensor([-7.8038, -7.7943, -7.7734, ..., 11.8075, 11.8094, 11.8115],
9431
           grad_fn=<Unique2Backward0>)
9432 print_dice: 0.5460711121559143, print_iou: 0.37558308243751526
9433 Epoch 28/499: 33%| | 53/160 [08:29<17:04, 9.58s/it]masks_dr unique: tensor([-7.
    4017, -7.4004, -7.3852, ..., 12.5056, 12.5071, 12.5078],
9434
           grad fn=<Unique2Backward0>)
9435 masks_dr unique: tensor([-7.4017, -7.4004, -7.3852, ..., 12.5056, 12.5071, 12.5078],
9436
           grad_fn=<Unique2Backward0>)
9437 print dice: 0.515862762928009, print iou: 0.3475842773914337
8036, -7.7940, -7.7732, ..., 11.8080, 11.8088, 11.8115],
9439
           grad_fn=<Unique2Backward0>)
9440 masks_dr unique: tensor([-7.8036, -7.7940, -7.7732, ..., 11.8080, 11.8088, 11.8115],
9441
           grad_fn=<Unique2Backward0>)
9442 Epoch 28/499: 34%
                               | 55/160 [08:48<16:47, 9.60s/it]print dice: 0.4520132839679718
        print iou: 0.29200077056884766
9443 masks_dr unique: tensor([-7.6946, -7.6912, -7.6778, ..., 12.4865, 12.4929, 12.4973],
           grad_fn=<Unique2Backward0>)
9445 masks_dr unique: tensor([-7.6946, -7.6912, -7.6778, ..., 12.4865, 12.4929, 12.4973],
           grad_fn=<Unique2Backward0>)
9447 Epoch 28/499: 35%
                           | 56/160 [08:58<16:39, 9.61s/it]print_dice: 0.5030023455619812
        print_iou: 0.3360074460506439
9448 masks_dr unique: tensor([-7.8275, -7.8274, -7.8148, ..., 13.1630, 13.1636, 13.1645],
           grad fn=<Unique2Backward0>)
9450 masks_dr unique: tensor([-7.8275, -7.8274, -7.8148, ..., 13.1630, 13.1636, 13.1645],
           grad_fn=<Unique2Backward0>)
9451
9452 print_dice: 0.5618801712989807, print_iou: 0.3907046914100647
9453 Epoch 28/499: 36%
                                57/160 [09:07<16:24, 9.56s/it]masks_dr unique: tensor([-7.
    7292, -7.7255, -7.7195, ..., 12.2398, 12.2404, 12.2428],
9454
           grad_fn=<Unique2Backward0>)
9455 masks_dr unique: tensor([-7.7292, -7.7255, -7.7195, ..., 12.2398, 12.2404, 12.2428],
9456
           grad fn=<Unique2Backward0>)
                                58/160 [09:17<16:15, 9.57s/it]print_dice: 0.5090376734733582
9457 Epoch 28/499: 36%
        print iou: 0.34141552448272705
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9458 masks dr unique: tensor([-7.5539, -7.5519, -7.5387, ..., 13.2221, 13.2222, 13.2268],
           grad fn=<Unique2Backward0>)
9460 masks_dr unique: tensor([-7.5539, -7.5519, -7.5387, ..., 13.2221, 13.2222, 13.2268],
9461
           grad fn=<Unique2Backward0>)
9462 print dice: 0.5049473643302917, print_iou: 0.3377455472946167
9463 Epoch 28/499: 37% 59/160 [09:26<15:59, 9.50s/it]masks_dr unique: tensor([-7.
    6229, -7.6105, -7.5993, ..., 12.2467, 12.2472, 12.2544],
9464
           grad_fn=<Unique2Backward0>)
9465 masks_dr unique: tensor([-7.6229, -7.6105, -7.5993, ..., 12.2467, 12.2472, 12.2544],
9466
           grad fn=<Unique2Backward0>)
9467 Epoch 28/499: 38%
                                60/160 [09:36<15:50, 9.51s/it]print dice: 0.5585767030715942
        print_iou: 0.38751745223999023
9468 masks_dr unique: tensor([-8.1415, -8.1320, -8.1310, ..., 12.6500, 12.6506, 12.6547],
           grad fn=<Unique2Backward0>)
9470 masks_dr unique: tensor([-8.1415, -8.1320, -8.1310, ..., 12.6500, 12.6506, 12.6547],
           grad_fn=<Unique2Backward0>)
9471
9472 Epoch 28/499: 38%
                               | 61/160 [09:45<15:40, 9.50s/it]print dice: 0.5155436992645264
        print_iou: 0.3472945988178253
9473 masks_dr unique: tensor([-7.8082, -7.7993, -7.7960, ..., 13.1459, 13.1470, 13.1472],
           grad_fn=<Unique2Backward0>)
9475 masks_dr unique: tensor([-7.8082, -7.7993, -7.7960, ..., 13.1459, 13.1470, 13.1472],
           grad_fn=<Unique2Backward0>)
9476
9477 Epoch 28/499: 39%
                                62/160 [09:55<15:33, 9.53s/it]print_dice: 0.547308087348938
        print iou: 0.37675443291664124
9478 masks_dr unique: tensor([-7.8835, -7.8812, -7.8688, ..., 13.2772, 13.2787, 13.2788],
           grad fn=<Unique2Backward0>)
9479
9480 masks dr unique: tensor([-7.8835, -7.8812, -7.8688, ..., 13.2772, 13.2787, 13.2788],
           grad fn=<Unique2Backward0>)
9482 print dice: 0.5358706712722778, print_iou: 0.36599957942962646
8024, -7.7927, -7.7718, ..., 11.8174, 11.8177, 11.8207],
9484
           grad_fn=<Unique2Backward0>)
9485 masks dr unique: tensor([-7.8024, -7.7927, -7.7718, ..., 11.8174, 11.8177, 11.8207],
9486
           grad fn=<Unique2Backward0>)
9487 Epoch 28/499: 40%
                                64/160 [10:14<15:07, 9.46s/it]print_dice: 0.5647594332695007
        print_iou: 0.3934946060180664
9488 masks_dr unique: tensor([-8.1615, -8.1489, -8.1412, ..., 13.1673, 13.1702, 13.1742],
           grad_fn=<Unique2Backward0>)
9490 masks_dr unique: tensor([-8.1615, -8.1489, -8.1412, ..., 13.1673, 13.1702, 13.1742],
           grad fn=<Unique2Backward0>)
9491
9492 print dice: 0.49358880519866943,
                                      print iou: 0.3276587426662445
9493 Epoch 28/499: 41% | 65/160 [10:23<15:02, 9.50s/it]masks_dr unique: tensor([-7.
    8028, -7.7932, -7.7721, ..., 11.8196, 11.8203, 11.8230],
           grad fn=<Unique2Backward0>)
9495 masks_dr unique: tensor([-7.8028, -7.7932, -7.7721, ..., 11.8196, 11.8203, 11.8230],
           grad_fn=<Unique2Backward0>)
9497 Epoch 28/499: 41%
                                66/160 [10:33<15:01, 9.59s/it]print_dice: 0.5853217244148254
        print_iou: 0.41374900937080383
9498 masks_dr unique: tensor([-7.8021, -7.7925, -7.7715, ..., 11.8181, 11.8193, 11.8218],
           grad fn=<Unique2Backward0>)
9500 masks_dr unique: tensor([-7.8021, -7.7925, -7.7715, ..., 11.8181, 11.8193, 11.8218],
9501
           grad_fn=<Unique2Backward0>)
9502 print_dice: 0.5722669363021851, print_iou: 0.40082210302352905
9503 Epoch 28/499: 42%| | 67/160 [10:43<14:47, 9.54s/it]masks_dr unique: tensor([-7.
    9837, -7.9782, -7.9727, ..., 12.8550, 12.8580, 12.8612],
9504
           grad_fn=<Unique2Backward0>)
9505 masks_dr unique: tensor([-7.9837, -7.9782, -7.9727, ..., 12.8550, 12.8580, 12.8612],
9506
           grad_fn=<Unique2Backward0>)
9507 Epoch 28/499: 42%|
                                | 68/160 [10:52<14:35, 9.51s/it]print_dice: 0.5039374232292175
        print_iou: 0.33684247732162476
9508 masks_dr unique: tensor([-7.8011, -7.7914, -7.7704, ..., 11.8188, 11.8191, 11.8221],
           grad fn=<Unique2Backward0>)
9509
9510 masks_dr unique: tensor([-7.8011, -7.7914, -7.7704, ..., 11.8188, 11.8191, 11.8221],
9511
           grad_fn=<Unique2Backward0>)
9512 print_dice: 0.5136730670928955, print_iou: 0.345598965883255
9513 Epoch 28/499: 43%
                                | 69/160 [11:02<14:30, 9.56s/it]masks_dr unique: tensor([-7.
    8026, -7.7929, -7.7719, ..., 11.8219, 11.8222, 11.8252],
9514
           grad_fn=<Unique2Backward0>)
9515 masks dr unique: tensor([-7.8026, -7.7929, -7.7719, ..., 11.8219, 11.8222, 11.8252],
```

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grad fn=<Unique2Backward0>)
9516
9517 print dice: 0.5505338907241821, print_iou: 0.3798184096813202
9518 Epoch 28/499: 44%| 70/160 [11:11<14:20, 9.56s/it]masks_dr unique: tensor([-8.
    0255, -8.0171, -8.0109, ..., 13.3822, 13.3845, 13.3880],
           grad_fn=<Unique2Backward0>)
9520 masks dr unique: tensor([-8.0255, -8.0171, -8.0109, ..., 13.3822, 13.3845, 13.3880],
           grad fn=<Unique2Backward0>)
9521
9522 Epoch 28/499: 44%
                                71/160 [11:21<14:09, 9.55s/it]print_dice: 0.5436378717422485
        print_iou: 0.37328484654426575
9523 masks_dr unique: tensor([-7.8021, -7.7925, -7.7713, ..., 11.8238, 11.8245, 11.8272],
           grad fn=<Unique2Backward0>)
9524
9525 masks dr unique: tensor([-7.8021, -7.7925, -7.7713, ..., 11.8238, 11.8245, 11.8272],
           grad fn=<Unique2Backward0>)
9526
9527 print dice: 0.4832214117050171, print iou: 0.31858399510383606
9528 Epoch 28/499: 45%| 72/160 [11:30<13:54, 9.49s/it]masks_dr unique: tensor([-8.
    0010, -7.9924, -7.9878, ..., 13.1748, 13.1758, 13.1762],
9529
           grad_fn=<Unique2Backward0>)
9530 masks_dr unique: tensor([-8.0010, -7.9924, -7.9878, ..., 13.1748, 13.1758, 13.1762],
9531
           grad_fn=<Unique2Backward0>)
9532 print_dice: 0.5965867638587952, print_iou: 0.4250970184803009
9533 Epoch 28/499: 46%
    8085, -7.8065, -7.7916, ..., 12.6799, 12.6828, 12.6848],
9534
           grad fn=<Unique2Backward0>)
9535 masks_dr unique: tensor([-7.8085, -7.8065, -7.7916, ..., 12.6799, 12.6828, 12.6848],
           grad fn=<Unique2Backward0>)
9537 Epoch 28/499: 46%
                                74/160 [11:49<13:44, 9.59s/it]print dice: 0.5007902979850769
        print iou: 0.3340362310409546
9538 masks_dr unique: tensor([-7.8048, -7.7953, -7.7741, ..., 11.8224, 11.8229, 11.8257],
           grad_fn=<Unique2Backward0>)
9540 masks_dr unique: tensor([-7.8048, -7.7953, -7.7741, ..., 11.8224, 11.8229, 11.8257],
           grad_fn=<Unique2Backward0>)
                                75/160 [11:59<13:29, 9.53s/it]print_dice: 0.5061364769935608
9542 Epoch 28/499: 47%
        print_iou: 0.33881041407585144
9543 masks_dr unique: tensor([-7.8185, -7.8081, -7.7977, ..., 13.2243, 13.2253, 13.2255],
           grad fn=<Unique2Backward0>)
9545 masks dr unique: tensor([-7.8185, -7.8081, -7.7977, ..., 13.2243, 13.2253, 13.2255],
9546
           grad fn=<Unique2Backward0>)
9547 Epoch 28/499: 48%
                                76/160 [12:08<13:16, 9.49s/it]print_dice: 0.5516535043716431
        print_iou: 0.3808850347995758
9548 masks_dr unique: tensor([-7.8033, -7.7939, -7.7726, ..., 11.8224, 11.8226, 11.8256],
           grad_fn=<Unique2Backward0>)
9549
9550 masks_dr unique: tensor([-7.8033, -7.7939, -7.7726, ..., 11.8224, 11.8226, 11.8256],
9551
           grad_fn=<Unique2Backward0>)
9552 Epoch 28/499: 48%
                                77/160 [12:18<13:11, 9.53s/it]print_dice: 0.4827475845813751
        print_iou: 0.31817224621772766
9553 masks_dr unique: tensor([-7.4298, -7.4138, -7.4069, ..., 12.0865, 12.0938, 12.0987],
           grad_fn=<Unique2Backward0>)
9554
9555 masks_dr unique: tensor([-7.4298, -7.4138, -7.4069, ..., 12.0865, 12.0938, 12.0987],
9556
           grad_fn=<Unique2Backward0>)
9557 print_dice: 0.5129525065422058, print_iou: 0.3449469804763794
9558 Epoch 28/499: 49%| | 78/160 [12:27<12:55, 9.45s/it]masks dr unique: tensor([-7.
    8749, -7.8745, -7.8711, ..., 12.1115, 12.1169, 12.1232],
9559
           grad_fn=<Unique2Backward0>)
9560 masks_dr unique: tensor([-7.8749, -7.8745, -7.8711, ..., 12.1115, 12.1169, 12.1232],
           grad_fn=<Unique2Backward0>)
9562 Epoch 28/499: 49%|
                             | 79/160 [12:37<12:46, 9.46s/it]print_dice: 0.5072414875030518
        print_iou: 0.33980146050453186
9563 masks dr unique: tensor([-7.6168, -7.6158, -7.6051, ..., 12.6785, 12.6788, 12.6789],
           grad_fn=<Unique2Backward0>)
9565 masks_dr unique: tensor([-7.6168, -7.6158, -7.6051, ..., 12.6785, 12.6788, 12.6789],
           grad_fn=<Unique2Backward0>)
9566
9567 print_dice: 0.5850327610969543, print_iou: 0.41346028447151184
                                | 80/160 [12:46<12:37, 9.47s/it]masks_dr unique: tensor([-7.
9568 Epoch 28/499: 50%
    7864, -7.7759, -7.7664, ..., 12.8542, 12.8544, 12.8549],
9569
           grad_fn=<Unique2Backward0>)
9570 masks_dr unique: tensor([-7.7864, -7.7759, -7.7664, ..., 12.8542, 12.8544, 12.8549],
9571
           grad fn=<Unique2Backward0>)
                                81/160 [12:56<12:32, 9.53s/it]print_dice: 0.5584566593170166
9572 Epoch 28/499: 51%
        print_iou: 0.38740190863609314
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9573 masks dr unique: tensor([-7.3446, -7.3344, -7.3285, ..., 11.3273, 11.3345, 11.3382],
           grad fn=<Unique2Backward0>)
9575 masks dr unique: tensor([-7.3446, -7.3344, -7.3285, ..., 11.3273, 11.3345, 11.3382],
9576
           grad fn=<Unique2Backward0>)
9577 print_dice: 0.5413939356803894, print_iou: 0.37117213010787964
9578 Epoch 28/499: 51%| | 82/160 [13:05<12:23, 9.54s/it]masks_dr unique: tensor([-7.
    6573, -7.6410, -7.6319, ..., 11.9054, 11.9112, 11.9164],
9579
           grad_fn=<Unique2Backward0>)
9580 masks_dr unique: tensor([-7.6573, -7.6410, -7.6319, ..., 11.9054, 11.9112, 11.9164],
9581
           grad fn=<Unique2Backward0>)
9582 print_dice: 0.544806182384491, print_iou: 0.37438735365867615
9583 Epoch 28/499: 52%| | 83/160 [13:15<12:14, 9.54s/it]masks_dr unique: tensor([-7.
    8783, -7.8738, -7.8601, ..., 13.1258, 13.1258, 13.1262],
9584
           grad fn=<Unique2Backward0>)
9585 masks_dr unique: tensor([-7.8783, -7.8738, -7.8601, ..., 13.1258, 13.1258, 13.1262],
           grad fn=<Unique2Backward0>)
9587 print dice: 0.5471187829971313, print iou: 0.3765750229358673
9588 Epoch 28/499: 52%| | 84/160 [13:25<12:08, 9.58s/it]masks_dr unique: tensor([-7.
    4728, -7.4588, -7.4473, ..., 11.9564, 11.9617, 11.9660],
9589
           grad_fn=<Unique2Backward0>)
9590 masks_dr unique: tensor([-7.4728, -7.4588, -7.4473, ..., 11.9564, 11.9617, 11.9660],
           grad_fn=<Unique2Backward0>)
9592 Epoch 28/499: 53%
                                 85/160 [13:34<11:59, 9.60s/it]print dice: 0.4664182662963867
        print iou: 0.30413657426834106
9593 masks_dr unique: tensor([-7.8051, -7.7958, -7.7744, ..., 11.8247, 11.8250, 11.8279],
9594
           grad_fn=<Unique2Backward0>)
9595 masks dr unique: tensor([-7.8051, -7.7958, -7.7744, ..., 11.8247, 11.8250, 11.8279],
           grad fn=<Unique2Backward0>)
9597 print dice: 0.5471729636192322, print_iou: 0.3766263723373413
9598 Epoch 28/499: 54%| | 86/160 [13:44<11:50, 9.59s/it]masks_dr unique: tensor([-7.
    8034, -7.7941, -7.7726, ..., 11.8255, 11.8257, 11.8287],
9599
           grad_fn=<Unique2Backward0>)
9600 masks dr unique: tensor([-7.8034, -7.7941, -7.7726, ..., 11.8255, 11.8257, 11.8287],
9601
           grad fn=<Unique2Backward0>)
9602 Epoch 28/499: 54%
                                87/160 [13:53<11:41, 9.61s/it]print_dice: 0.4662754535675049
        print_iou: 0.3040151298046112
9603 masks_dr unique: tensor([-7.8597, -7.8549, -7.8400, ..., 13.0017, 13.0020, 13.0026],
           grad_fn=<Unique2Backward0>)
9605 masks_dr unique: tensor([-7.8597, -7.8549, -7.8400, ..., 13.0017, 13.0020, 13.0026],
           grad fn=<Unique2Backward0>)
9606
9607 print_dice: 0.545642614364624, print_iou: 0.375177800655365
9608 Epoch 28/499: 55%| | 88/160 [14:03<11:34, 9.65s/it]masks_dr unique: tensor([-7.
    8060, -7.7968, -7.7751, ..., 11.8310, 11.8315, 11.8343],
           grad fn=<Unique2Backward0>)
9610 masks_dr unique: tensor([-7.8060, -7.7968, -7.7751, ..., 11.8310, 11.8315, 11.8343],
           grad_fn=<Unique2Backward0>)
9612 print_dice: 0.566562294960022, print_iou: 0.3952472507953644
9613 Epoch 28/499: 56%| | 89/160 [14:13<11:19, 9.58s/it]masks_dr unique: tensor([-8.
    0983, -8.0914, -8.0736, ..., 12.4076, 12.4086, 12.4122],
9614
           grad fn=<Unique2Backward0>)
9615 masks dr unique: tensor([-8.0983, -8.0914, -8.0736, ..., 12.4076, 12.4086, 12.4122],
9616
           grad_fn=<Unique2Backward0>)
9617 print_dice: 0.5435624122619629, print_iou: 0.37321367859840393
9618 Epoch 28/499: 56% 90/160 [14:22<11:09, 9.56s/it]masks_dr unique: tensor([-7.
    8064, -7.7971, -7.7755, ..., 11.8305, 11.8305, 11.8336],
9619
           grad_fn=<Unique2Backward0>)
9620 masks_dr unique: tensor([-7.8064, -7.7971, -7.7755, ..., 11.8305, 11.8305, 11.8336],
           grad fn=<Unique2Backward0>)
9622 print_dice: 0.5879219770431519, print_iou: 0.4163523316383362
9623 Epoch 28/499: 57%
                               91/160 [14:32<10:58, 9.54s/it]masks_dr unique: tensor([-7.
    8066, -7.7973, -7.7757, ..., 11.8317, 11.8319, 11.8349],
           grad fn=<Unique2Backward0>)
9624
9625 masks dr unique: tensor([-7.8066, -7.7973, -7.7757, ..., 11.8317, 11.8319, 11.8349],
           grad_fn=<Unique2Backward0>)
9626
9627 print_dice: 0.5501582026481628, print_iou: 0.379460871219635
9628 Epoch 28/499: 57%
                               92/160 [14:41<10:53, 9.60s/it]masks_dr unique: tensor([-7.
    5043, -7.4941, -7.4828, ..., 11.6109, 11.6163, 11.6230],
           grad_fn=<Unique2Backward0>)
9629
9630 masks dr unique: tensor([-7.5043, -7.4941, -7.4828, ..., 11.6109, 11.6163, 11.6230],
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9631
           grad fn=<Unique2Backward0>)
9632 Epoch 28/499: 58%
                               | 93/160 [14:51<10:45, 9.63s/it]print_dice: 0.4181055426597595
        print iou: 0.26430684328079224
9633 masks_dr unique: tensor([-7.8077, -7.7984, -7.7767, ..., 11.8328, 11.8329, 11.8359],
           grad_fn=<Unique2Backward0>)
9635 masks_dr unique: tensor([-7.8077, -7.7984, -7.7767, ..., 11.8328, 11.8329, 11.8359],
           grad fn=<Unique2Backward0>)
9636
9637 Epoch 28/499: 59%
                                 94/160 [15:01<10:36, 9.65s/it]print_dice: 0.5759860277175903
        print_iou: 0.40448063611984253
9638 masks_dr unique: tensor([-7.5930, -7.5892, -7.5801, ..., 12.2212, 12.2283, 12.2335],
           grad fn=<Unique2Backward0>)
9639
9640 masks dr unique: tensor([-7.5930, -7.5892, -7.5801, ..., 12.2212, 12.2283, 12.2335],
           grad_fn=<Unique2Backward0>)
9641
9642 Epoch 28/499: 59%
                                 95/160 [15:10<10:24, 9.61s/it]print dice: 0.509317934513092
        print_iou: 0.3416677415370941
9643 masks_dr unique: tensor([-7.9912, -7.9805, -7.9729, ..., 13.0479, 13.0484, 13.0499],
           grad fn=<Unique2Backward0>)
9645 masks_dr unique: tensor([-7.9912, -7.9805, -7.9729, ..., 13.0479, 13.0484, 13.0499],
9646
           grad_fn=<Unique2Backward0>)
9647 Epoch 28/499: 60%
                                96/160 [15:20<10:13, 9.59s/it]print_dice: 0.5962992310523987
        print_iou: 0.42480507493019104
9648 masks_dr unique: tensor([-7.8963, -7.8869, -7.8705, ..., 13.2625, 13.2645, 13.2648],
           grad fn=<Unique2Backward0>)
9650 masks dr unique: tensor([-7.8963, -7.8869, -7.8705, ..., 13.2625, 13.2645, 13.2648],
           grad fn=<Unique2Backward0>)
9652 print_dice: 0.4712735116481781, print_iou: 0.30827850103378296
9653 Epoch 28/499: 61%| 97/160 [15:29<10:00, 9.53s/it]masks_dr unique: tensor([-7.
    7321, -7.7207, -7.7165, ..., 11.9756, 11.9817, 11.9867],
9654
           grad_fn=<Unique2Backward0>)
9655 masks_dr unique: tensor([-7.7321, -7.7207, -7.7165, ..., 11.9756, 11.9817, 11.9867],
           grad_fn=<Unique2Backward0>)
                                 98/160 [15:39<09:54, 9.58s/it]print_dice: 0.5485318899154663
9657 Epoch 28/499: 61%
        print_iou: 0.37791523337364197
9658 masks_dr unique: tensor([-7.7456, -7.7437, -7.7302, ..., 13.2651, 13.2662, 13.2673],
           grad fn=<Unique2Backward0>)
9660 masks_dr unique: tensor([-7.7456, -7.7437, -7.7302, ..., 13.2651, 13.2662, 13.2673],
           grad_fn=<Unique2Backward0>)
9661
9662 Epoch 28/499: 62%
                                 99/160 [15:49<09:48, 9.64s/it]print_dice: 0.
    44647738337516785, print_iou: 0.28739675879478455
9663 masks dr unique: tensor([-7.8091, -7.7998, -7.7781, ..., 11.8340, 11.8341, 11.8371],
9664
           grad fn=<Unique2Backward0>)
9665 masks_dr unique: tensor([-7.8091, -7.7998, -7.7781, ..., 11.8340, 11.8341, 11.8371],
9666
           grad_fn=<Unique2Backward0>)
9667 print dice: 0.47698327898979187, print_iou: 0.3131832182407379
9668 Epoch 28/499: 62%| | 100/160 [15:58<09:37, 9.63s/it]masks_dr unique: tensor([-7.
    6617, -7.6607, -7.6486, ..., 13.3089, 13.3095, 13.3105],
           grad_fn=<Unique2Backward0>)
9669
9670 masks_dr unique: tensor([-7.6617, -7.6607, -7.6486, ..., 13.3089, 13.3095, 13.3105],
           grad fn=<Unique2Backward0>)
9671
9672 Epoch 28/499: 63% | 101/160 [16:08<09:24, 9.56s/it]print_dice: 0.
    5944715142250061, print_iou: 0.4229523241519928
      [100/160] eta: 0:09:35 time: 9.5936 data: 0.0001
9674 masks_dr unique: tensor([-7.8097, -7.8004, -7.7787, ..., 11.8330, 11.8330, 11.8361],
9675
           grad_fn=<Unique2Backward0>)
9676 masks_dr unique: tensor([-7.8097, -7.8004, -7.7787, ..., 11.8330, 11.8330, 11.8361],
9677
           grad_fn=<Unique2Backward0>)
9678 print_dice: 0.4399925172328949, print_iou: 0.2820451259613037
                               | 102/160 [16:17<09:18, 9.63s/it]masks dr unique: tensor([-7.
9679 Epoch 28/499: 64%
                         7557, -7.7507, -7.7440, ..., 13.1759, 13.1763, 13.1787],
9680
           grad_fn=<Unique2Backward0>)
9681 masks_dr unique: tensor([-7.7557, -7.7507, -7.7440, ..., 13.1759, 13.1763, 13.1787],
9682
           grad_fn=<Unique2Backward0>)
9683 print dice: 0.5871039628982544,
                                     print iou: 0.41553232073783875
9684 Epoch 28/499: 64%| 103/160 [16:27<09:07, 9.61s/it]masks_dr unique: tensor([-7.
    4703, -7.4659, -7.4616, ..., 12.9886, 12.9890, 12.9898],
           grad fn=<Unique2Backward0>)
9685
9686 masks dr unique: tensor([-7.4703, -7.4659, -7.4616, ..., 12.9886, 12.9890, 12.9898],
           grad fn=<Unique2Backward0>)
9687
9688 Epoch 28/499: 65%
                                 | 104/160 [16:37<08:58, 9.61s/it]print dice: 0.
```

```
print iou: 0.34395575523376465
9688 5118557810783386,
9689 masks_dr unique: tensor([-7.8147, -7.8054, -7.7835, ..., 11.8360, 11.8363, 11.8393],
           grad fn=<Unique2Backward0>)
9691 masks_dr unique: tensor([-7.8147, -7.8054, -7.7835, ..., 11.8360, 11.8363, 11.8393],
           grad fn=<Unique2Backward0>)
9693 print dice: 0.5137209296226501, print iou: 0.3456422984600067
9694 Epoch 28/499: 66%| | 105/160 [16:46<08:44, 9.54s/it]masks_dr unique: tensor([-7.
    8215, -7.8044, -7.7992, ..., 12.0584, 12.0643, 12.0696],
9695
           grad_fn=<Unique2Backward0>)
9696 masks_dr unique: tensor([-7.8215, -7.8044, -7.7992, ..., 12.0584, 12.0643, 12.0696],
           grad fn=<Unique2Backward0>)
9698 print_dice: 0.5597230195999146, print_iou: 0.38862180709838867
9699 Epoch 28/499: 66%| 106/160 [16:56<08:37, 9.59s/it]masks_dr unique: tensor([-7.
    9684, -7.9638, -7.9494, ..., 12.3132, 12.3209, 12.3240],
9700
           grad fn=<Unique2Backward0>)
9701 masks_dr unique: tensor([-7.9684, -7.9638, -7.9494, ..., 12.3132, 12.3209, 12.3240],
           grad fn=<Unique2Backward0>)
9703 print dice: 0.5956283807754517, print_iou: 0.42412450909614563
9704 Epoch 28/499: 67%| | 107/160 [17:05<08:29, 9.61s/it]masks_dr unique: tensor([-7.
    8169, -7.8076, -7.7857, ..., 11.8375, 11.8377, 11.8407],
9705
           grad_fn=<Unique2Backward0>)
9706 masks dr unique: tensor([-7.8169, -7.8076, -7.7857, ..., 11.8375, 11.8377, 11.8407],
9707
           grad fn=<Unique2Backward0>)
9708 Epoch 28/499: 68% | 108/160 [17:15<08:22, 9.67s/it]print_dice: 0.
    5118467211723328, print_iou: 0.3439475893974304
9709 masks_dr unique: tensor([-7.3435, -7.3352, -7.3225, ..., 11.6139, 11.6171, 11.6226],
9710
           grad fn=<Unique2Backward0>)
9711 masks_dr unique: tensor([-7.3435, -7.3352, -7.3225, ..., 11.6139, 11.6171, 11.6226],
           grad fn=<Unique2Backward0>)
9712
9713 print_dice: 0.5346970558166504, print_iou: 0.364905446767807
9714 Epoch 28/499: 68% | 109/160 [17:25<08:11, 9.63s/it]masks dr unique: tensor([-7.
    4239, -7.4227, -7.4160, ..., 12.6926, 12.6931, 12.6933],
           grad fn=<Unique2Backward0>)
9715
9716 masks_dr unique: tensor([-7.4239, -7.4227, -7.4160, ..., 12.6926, 12.6931, 12.6933],
9717
           grad fn=<Unique2Backward0>)
9718 print_dice: 0.4727834165096283, print_iou: 0.3095719516277313
9719 Epoch 28/499: 69%| | 110/160 [17:34<08:00, 9.62s/it]masks_dr unique: tensor([-7.
    7080, -7.6988, -7.6896, ..., 12.2543, 12.2606, 12.2643],
9720
           grad_fn=<Unique2Backward0>)
9721 masks_dr unique: tensor([-7.7080, -7.6988, -7.6896, ..., 12.2543, 12.2606, 12.2643],
9722
           grad fn=<Unique2Backward0>)
9723 print_dice: 0.5533506274223328, print_iou: 0.38250499963760376
9724 Epoch 28/499: 69%| | 111/160 [17:44<07:52, 9.63s/it]masks_dr unique: tensor([-7.
    8155, -7.8062, -7.7844, ..., 11.8385, 11.8386, 11.8417],
9725
           grad_fn=<Unique2Backward0>)
9726 masks_dr unique: tensor([-7.8155, -7.8062, -7.7844, ..., 11.8385, 11.8386, 11.8417],
           grad_fn=<Unique2Backward0>)
9728 print_dice: 0.5315309762954712, print_iou: 0.3619626760482788
9729 Epoch 28/499: 70%| | 112/160 [17:54<07:43, 9.65s/it]masks_dr unique: tensor([-8.
    0953, -8.0751, -8.0707, ..., 12.5249, 12.5283, 12.5352],
9730
           grad_fn=<Unique2Backward0>)
9731 masks dr unique: tensor([-8.0953, -8.0751, -8.0707, ..., 12.5249, 12.5283, 12.5352],
9732
           grad fn=<Unique2Backward0>)
9733 Epoch 28/499: 71% | 113/160 [18:03<07:31, 9.61s/it]print_dice: 0.
    5895966291427612, print_iou: 0.41803404688835144
9734 masks_dr unique: tensor([-7.8168, -7.8074, -7.7856, ..., 11.8379, 11.8379, 11.8410],
           grad_fn=<Unique2Backward0>)
9735
9736 masks_dr unique: tensor([-7.8168, -7.8074, -7.7856, ..., 11.8379, 11.8379, 11.8410],
           grad fn=<Unique2Backward0>)
                                 | 114/160 [18:13<07:19, 9.55s/it]print_dice: 0.
9738 Epoch 28/499: 71%
    48621711134910583, print iou: 0.3211934268474579
9739 masks dr unique: tensor([-7.9728, -7.9603, -7.9521, ..., 12.4787, 12.4788, 12.4802],
           grad_fn=<Unique2Backward0>)
9740
9741 masks_dr unique: tensor([-7.9728, -7.9603, -7.9521, ..., 12.4787, 12.4788, 12.4802],
9742
           grad fn=<Unique2Backward0>)
9743 print dice: 0.48567691445350647,
                                      print_iou: 0.3207221031188965
9744 Epoch 28/499: 72%
                                | 115/160 [18:22<07:10, 9.56s/it]masks_dr unique: tensor([-7.
    6831, -7.6772, -7.6722, ..., 13.3214, 13.3217, 13.3254],
9745
           grad fn=<Unique2Backward0>)
```

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9746 masks dr unique: tensor([-7.6831, -7.6772, -7.6722, ..., 13.3214, 13.3217, 13.3254],
           grad fn=<Unique2Backward0>)
9748 print dice: 0.5549153685569763, print iou: 0.3840020000934601
9749 Epoch 28/499: 72% | 116/160 [18:32<07:01, 9.59s/it]masks_dr unique: tensor([-7.
    3340, -7.3271, -7.3112, ..., 11.3726, 11.3747, 11.3768],
9750
           grad_fn=<Unique2Backward0>)
9751 masks_dr unique: tensor([-7.3340, -7.3271, -7.3112, ..., 11.3726, 11.3747, 11.3768],
9752
           grad fn=<Unique2Backward0>)
9753 Epoch 28/499: 73% | 117/160 [18:41<06:50, 9.55s/it]print_dice: 0.
    5291152596473694, print_iou: 0.35972586274147034
9754 masks_dr unique: tensor([-7.6739, -7.6712, -7.6567, ..., 13.3307, 13.3309, 13.3339],
9755
           grad_fn=<Unique2Backward0>)
9756 masks_dr unique: tensor([-7.6739, -7.6712, -7.6567, ..., 13.3307, 13.3309, 13.3339],
           grad fn=<Unique2Backward0>)
9758 print dice: 0.5807558298110962, print_iou: 0.4092008173465729
5920, -7.5915, -7.5821, ..., 13.2036, 13.2038, 13.2053],
9760
           grad_fn=<Unique2Backward0>)
9761 masks_dr unique: tensor([-7.5920, -7.5915, -7.5821, ..., 13.2036, 13.2038, 13.2053],
           grad fn=<Unique2Backward0>)
9763 print_dice: 0.5768006443977356, print_iou: 0.40528446435928345
9764 Epoch 28/499: 74%| 119/160 [19:00<06:31, 9.54s/it]masks_dr unique: tensor([-7.
    6633, -7.6529, -7.6319, ..., 12.9102, 12.9110, 12.9116],
9765
           grad fn=<Unique2Backward0>)
9766 masks_dr unique: tensor([-7.6633, -7.6529, -7.6319, ..., 12.9102, 12.9110, 12.9116],
9767
           grad_fn=<Unique2Backward0>)
9768 print dice: 0.4696548879146576, print iou: 0.3068947494029999
9769 Epoch 28/499: 75%| | 120/160 [19:10<06:23, 9.58s/it]masks_dr unique: tensor([-7.
    8708, -7.8560, -7.8498, ..., 12.1418, 12.1451, 12.1498],
           grad fn=<Unique2Backward0>)
9771 masks dr unique: tensor([-7.8708, -7.8560, -7.8498, ..., 12.1418, 12.1451, 12.1498],
9772
           grad_fn=<Unique2Backward0>)
9773 Epoch 28/499: 76%
                               | 121/160 [19:19<06:12, 9.56s/it]print dice: 0.
    5521427989006042, print_iou: 0.38135167956352234
9774 masks dr unique: tensor([-7.5284, -7.5261, -7.5239, ..., 11.7693, 11.7736, 11.7805],
9775
           grad_fn=<Unique2Backward0>)
9776 masks_dr unique: tensor([-7.5284, -7.5261, -7.5239, ..., 11.7693, 11.7736, 11.7805],
           grad_fn=<Unique2Backward0>)
9777
9778 Epoch 28/499: 76% | 122/160 [19:29<06:02, 9.53s/it]print_dice: 0.441548615694046
        print iou: 0.2833252251148224
9779 masks_dr unique: tensor([-8.0357, -8.0261, -8.0169, ..., 13.0597, 13.0606, 13.0620],
           grad_fn=<Unique2Backward0>)
9781 masks dr unique: tensor([-8.0357, -8.0261, -8.0169, ..., 13.0597, 13.0606, 13.0620],
           grad fn=<Unique2Backward0>)
9783 Epoch 28/499: 77% | 123/160 [19:38<05:51, 9.50s/it]print_dice: 0.
    6064868569374084, print_iou: 0.43522149324417114
9784 masks_dr unique: tensor([-7.6053, -7.5876, -7.5739, ..., 12.5595, 12.5615, 12.5626],
9785
           grad_fn=<Unique2Backward0>)
9786 masks_dr unique: tensor([-7.6053, -7.5876, -7.5739, ..., 12.5595, 12.5615, 12.5626],
           grad_fn=<Unique2Backward0>)
9788 Epoch 28/499: 78% | 124/160 [19:48<05:43, 9.53s/it]print_dice: 0.601624608039856
        print_iou: 0.43023112416267395
9789 masks_dr unique: tensor([-7.7574, -7.7561, -7.7351, ..., 12.1458, 12.1517, 12.1564],
9790
           grad_fn=<Unique2Backward0>)
9791 masks_dr unique: tensor([-7.7574, -7.7561, -7.7351, ..., 12.1458, 12.1517, 12.1564],
9792
           grad_fn=<Unique2Backward0>)
9793 Epoch 28/499: 78%| | 125/160 [19:58<05:34, 9.55s/it]print_dice: 0.
                       print_iou: 0.30692946910858154
    4696955382823944,
9794 masks_dr unique: tensor([-7.8172, -7.8074, -7.7861, ..., 11.8418, 11.8419, 11.8450],
           grad fn=<Unique2Backward0>)
9795
9796 masks_dr unique: tensor([-7.8172, -7.8074, -7.7861, ..., 11.8418, 11.8419, 11.8450],
           grad fn=<Unique2Backward0>)
9797
9798 Epoch 28/499: 79% | 126/160 [20:07<05:24, 9.53s/it]print_dice: 0.515343427658081
        print iou: 0.34711289405822754
9799 masks dr unique: tensor([-7.7456, -7.7409, -7.7375, ..., 12.3925, 12.3937, 12.3941],
           grad fn=<Unique2Backward0>)
9800
9801 masks_dr unique: tensor([-7.7456, -7.7409, -7.7375, ..., 12.3925, 12.3937, 12.3941],
           grad fn=<Unique2Backward0>)
9802
9803 Epoch 28/499: 79%| | 127/160 [20:17<05:14, 9.53s/it]print_dice: 0.
```

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9803 6151939034461975,
                     print iou: 0.4442455470561981
9804 masks_dr unique: tensor([-7.7765, -7.7615, -7.7589, ..., 12.0953, 12.1000, 12.1061],
           grad fn=<Unique2Backward0>)
9806 masks_dr unique: tensor([-7.7765, -7.7615, -7.7589, ..., 12.0953, 12.1000, 12.1061],
           grad_fn=<Unique2Backward0>)
9808 print_dice: 0.5116554498672485, print_iou: 0.34377485513687134
9809 Epoch 28/499: 80%| | 128/160 [20:26<05:04, 9.52s/it]masks_dr unique: tensor([-7.
    8636, -7.8557, -7.8477, ..., 12.5493, 12.5495, 12.5508],
9810
           grad_fn=<Unique2Backward0>)
9811 masks_dr unique: tensor([-7.8636, -7.8557, -7.8477, ..., 12.5493, 12.5495, 12.5508],
           grad_fn=<Unique2Backward0>)
9813 print dice: 0.5103768110275269, print iou: 0.34262141585350037
9814 Epoch 28/499: 81%| | 129/160 [20:36<04:54, 9.49s/it]masks_dr unique: tensor([-7.
    6526, -7.6414, -7.6303, ..., 11.7878, 11.7914, 11.7948],
9815
           grad_fn=<Unique2Backward0>)
9816 masks_dr unique: tensor([-7.6526, -7.6414, -7.6303, ..., 11.7878, 11.7914, 11.7948],
           grad_fn=<Unique2Backward0>)
9818 Epoch 28/499: 81%| | 130/160 [20:45<04:48, 9.63s/it]print_dice: 0.
    4328520596027374,
                     print_iou: 0.2762036919593811
9819 masks_dr unique: tensor([-7.8196, -7.8098, -7.7883, ..., 11.8453, 11.8454, 11.8485],
           grad_fn=<Unique2Backward0>)
9820
9821 masks_dr unique: tensor([-7.8196, -7.8098, -7.7883, ..., 11.8453, 11.8454, 11.8485],
9822
           grad_fn=<Unique2Backward0>)
9823 Epoch 28/499: 82%| | 131/160 [20:55<04:40, 9.67s/it]print_dice: 0.
    5033494830131531, print_iou: 0.3363173007965088
9824 masks dr unique: tensor([-7.7573, -7.7389, -7.7226, ..., 12.1191, 12.1242, 12.1263],
9825
           grad fn=<Unique2Backward0>)
9826 masks_dr unique: tensor([-7.7573, -7.7389, -7.7226, ..., 12.1191, 12.1242, 12.1263],
           grad_fn=<Unique2Backward0>)
9827
9828 print_dice: 0.5060868263244629, print_iou: 0.3387658894062042
4102, -7.4036, -7.3933, ..., 12.3187, 12.3198, 12.3234],
9830
           grad_fn=<Unique2Backward0>)
9831 masks dr unique: tensor([-7.4102, -7.4036, -7.3933, ..., 12.3187, 12.3198, 12.3234],
9832
           grad_fn=<Unique2Backward0>)
9833 Epoch 28/499: 83%| | 133/160 [21:14<04:19, 9.61s/it]print_dice: 0.
    4935603737831116, print_iou: 0.32763367891311646
9834 masks dr unique: tensor([-7.4512, -7.4498, -7.4339, ..., 12.7271, 12.7286, 12.7307],
9835
           grad_fn=<Unique2Backward0>)
9836 masks_dr unique: tensor([-7.4512, -7.4498, -7.4339, ..., 12.7271, 12.7286, 12.7307],
           grad_fn=<Unique2Backward0>)
9837
9838 print_dice: 0.4828193783760071, print_iou: 0.3182345926761627
7748, -7.7548, -7.7468, ..., 12.2433, 12.2449, 12.2481],
9840
           grad_fn=<Unique2Backward0>)
9841 masks_dr unique: tensor([-7.7748, -7.7548, -7.7468, ..., 12.2433, 12.2449, 12.2481],
           grad_fn=<Unique2Backward0>)
9843 Epoch 28/499: 84% | 135/160 [21:34<04:00, 9.63s/it]print_dice: 0.
    5275651216506958, print_iou: 0.35829436779022217
9844 masks dr unique: tensor([-7.8253, -7.8156, -7.7939, ..., 11.8463, 11.8468, 11.8497],
9845
           grad_fn=<Unique2Backward0>)
9846 masks_dr unique: tensor([-7.8253, -7.8156, -7.7939, ..., 11.8463, 11.8468, 11.8497],
           grad_fn=<Unique2Backward0>)
9847
9848 print dice: 0.6071324348449707, print iou: 0.4358867108821869
9849 Epoch 28/499: 85%| | 136/160 [21:43<03:50, 9.62s/it]masks_dr unique: tensor([-7.
    9178, -7.9067, -7.8931, ..., 12.5183, 12.5190, 12.5223],
           grad_fn=<Unique2Backward0>)
9850
9851 masks_dr unique: tensor([-7.9178, -7.9067, -7.8931, ..., 12.5183, 12.5190, 12.5223],
           grad_fn=<Unique2Backward0>)
9853 Epoch 28/499: 86%| | 137/160 [21:53<03:39, 9.56s/it]print_dice: 0.
    5625208020210266, print iou: 0.391324520111084
9854 masks dr unique: tensor([-7.5008, -7.4805, -7.4722, ..., 12.2832, 12.2840, 12.2851],
           grad fn=<Unique2Backward0>)
9855
9856 masks dr unique: tensor([-7.5008, -7.4805, -7.4722, ..., 12.2832, 12.2840, 12.2851],
9857
           grad_fn=<Unique2Backward0>)
9858 print dice: 0.5454896688461304,
                                    print_iou: 0.3750331997871399
9859 Epoch 28/499: 86%| | | 138/160 [22:02<03:31, 9.62s/it]masks_dr unique: tensor([-7.
    7788, -7.7736, -7.7586, ..., 11.9189, 11.9258, 11.9296],
9860
           grad fn=<Unique2Backward0>)
```

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9861 masks dr unique: tensor([-7.7788, -7.7736, -7.7586, ..., 11.9189, 11.9258, 11.9296],
                 grad fn=<Unique2Backward0>)
9863 Epoch 28/499: 87% | 139/160 [22:12<03:22, 9.66s/it]print dice: 0.
      5831082463264465,
                                 print_iou: 0.4115404188632965
9864 masks dr unique: tensor([-7.3112, -7.3102, -7.3000, ..., 12.0286, 12.0291, 12.0295],
                grad_fn=<Unique2Backward0>)
9866 masks_dr unique: tensor([-7.3112, -7.3102, -7.3000, ..., 12.0286, 12.0291, 12.0295],
                grad_fn=<Unique2Backward0>)
9867
9868 Epoch 28/499: 88% | 140/160 [22:22<03:13, 9.67s/it]print_dice: 0.
      5207798480987549, print_iou: 0.35206377506256104
9869 masks_dr unique: tensor([-8.1345, -8.1209, -8.1092, ..., 13.3954, 13.3960, 13.3989],
                grad_fn=<Unique2Backward0>)
9870
9871 masks_dr unique: tensor([-8.1345, -8.1209, -8.1092, ..., 13.3954, 13.3960, 13.3989],
                 grad fn=<Unique2Backward0>)
9873 Epoch 28/499: 88%| | | 141/160 [22:31<03:02, 9.60s/it]print_dice: 0.619889497756958
            print_iou: 0.44915932416915894
9874 masks_dr unique: tensor([-7.8253, -7.8158, -7.7938, ..., 11.8416, 11.8424, 11.8452],
                grad_fn=<Unique2Backward0>)
9876 masks_dr unique: tensor([-7.8253, -7.8158, -7.7938, ..., 11.8416, 11.8424, 11.8452],
                grad_fn=<Unique2Backward0>)
9878 print_dice: 0.5510066151618958, print_iou: 0.38026854395866394
9879 Epoch 28/499: 89%| 89%| 142/160 [22:41<02:53, 9.63s/it]masks_dr unique: tensor([-7.
      8781, -7.8644, -7.8584, ..., 12.5475, 12.5534, 12.5585],
9880
                 grad_fn=<Unique2Backward0>)
9881 masks dr unique: tensor([-7.8781, -7.8644, -7.8584, ..., 12.5475, 12.5534, 12.5585],
                 grad fn=<Unique2Backward0>)
9882
9883 Epoch 28/499: 89%| 9883 Epoch 28/499: 9883 Epoch 28/499
            print iou: 0.34280797839164734
9884 masks dr unique: tensor([-7.6922, -7.6758, -7.6712, ..., 12.3186, 12.3229, 12.3291],
                 grad fn=<Unique2Backward0>)
9886 masks_dr unique: tensor([-7.6922, -7.6758, -7.6712, ..., 12.3186, 12.3229, 12.3291],
9887
                grad_fn=<Unique2Backward0>)
9888 print_dice: 0.5371497273445129, print_iou: 0.36719390749931335
9889 Epoch 28/499: 90%| | 144/160 [23:00<02:33, 9.60s/it]masks_dr unique: tensor([-7.
      9000, -7.8883, -7.8766, ..., 12.8220, 12.8242, 12.8243],
9890
                grad_fn=<Unique2Backward0>)
9891 masks_dr unique: tensor([-7.9000, -7.8883, -7.8766, ..., 12.8220, 12.8242, 12.8243],
                grad_fn=<Unique2Backward0>)
9892
9893 Epoch 28/499: 91%| | 145/160 [23:09<02:22, 9.49s/it]print_dice: 0.
      4942726492881775, print_iou: 0.32826170325279236
9894 masks_dr unique: tensor([-7.8237, -7.8142, -7.7921, ..., 11.8445, 11.8454, 11.8481],
9895
                grad_fn=<Unique2Backward0>)
9896 masks_dr unique: tensor([-7.8237, -7.8142, -7.7921, ..., 11.8445, 11.8454, 11.8481],
                 grad_fn=<Unique2Backward0>)
9898 Epoch 28/499: 91%| | 146/160 [23:19<02:13, 9.51s/it]print_dice: 0.
      5395161509513855, print_iou: 0.3694092035293579
9899 masks_dr unique: tensor([-7.8213, -7.8119, -7.7898, ..., 11.8453, 11.8458, 11.8487],
                grad_fn=<Unique2Backward0>)
9900
9901 masks_dr unique: tensor([-7.8213, -7.8119, -7.7898, ..., 11.8453, 11.8458, 11.8487],
                grad fn=<Unique2Backward0>)
9903 print_dice: 0.5359899997711182, print_iou: 0.3661108911037445
9904 Epoch 28/499: 92%| 92%| | 147/160 [23:29<02:03, 9.53s/it]masks_dr unique: tensor([-7.
      9912, -7.9823, -7.9820, ..., 13.1561, 13.1580, 13.1583],
9905
                 grad_fn=<Unique2Backward0>)
9906 masks_dr unique: tensor([-7.9912, -7.9823, -7.9820, ..., 13.1561, 13.1580, 13.1583],
                grad_fn=<Unique2Backward0>)
9907
9908 Epoch 28/499: 92%| | 148/160 [23:38<01:54, 9.55s/it]print_dice: 0.
      5742186307907104,
                                  print_iou: 0.40273958444595337
9909 masks_dr unique: tensor([-8.2048, -8.1951, -8.1856, ..., 13.0122, 13.0134, 13.0146],
                 grad fn=<Unique2Backward0>)
9910
9911 masks_dr unique: tensor([-8.2048, -8.1951, -8.1856, ..., 13.0122, 13.0134, 13.0146],
                 grad fn=<Unique2Backward0>)
9912
9913 Epoch 28/499: 93%| | | 149/160 [23:48<01:44, 9.54s/it]print_dice: 0.
                                 print_iou: 0.3758881688117981
      5463934540748596,
9914 masks_dr unique: tensor([-7.8200, -7.8105, -7.7885, ..., 11.8423, 11.8427, 11.8457],
                 grad_fn=<Unique2Backward0>)
9915
9916 masks_dr unique: tensor([-7.8200, -7.8105, -7.7885, ..., 11.8423, 11.8427, 11.8457],
                 grad_fn=<Unique2Backward0>)
9917
9918 print_dice: 0.4937407970428467, print_iou: 0.3277927041053772
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9919 Epoch 28/499: 94%| | 150/160 [23:57<01:35, 9.55s/it]masks dr unique: tensor([-7.
    8206, -7.8110, -7.7890, ..., 11.8451, 11.8458, 11.8486],
9920
           grad fn=<Unique2Backward0>)
9921 masks_dr unique: tensor([-7.8206, -7.8110, -7.7890, ..., 11.8451, 11.8458, 11.8486],
           grad fn=<Unique2Backward0>)
9923 print_dice: 0.5107762813568115, print_iou: 0.3429815471172333
9924 Epoch 28/499: 94%| 94%| 151/160 [24:07<01:25, 9.55s/it]masks_dr unique: tensor([-7.
    8202, -7.8107, -7.7886, ..., 11.8434, 11.8438, 11.8468],
9925
           grad_fn=<Unique2Backward0>)
9926 masks_dr unique: tensor([-7.8202, -7.8107, -7.7886, ..., 11.8434, 11.8438, 11.8468],
           grad_fn=<Unique2Backward0>)
9928 print_dice: 0.5350867509841919, print_iou: 0.3652685582637787
9929 Epoch 28/499: 95%| 95%| 152/160 [24:17<01:16, 9.60s/it]masks_dr unique: tensor([-7.
    6956, -7.6858, -7.6754, ..., 12.0533, 12.0583, 12.0637],
9930
           grad_fn=<Unique2Backward0>)
9931 masks_dr unique: tensor([-7.6956, -7.6858, -7.6754, ..., 12.0533, 12.0583, 12.0637],
           grad fn=<Unique2Backward0>)
9933 Epoch 28/499: 96%| 96%| 153/160 [24:26<01:07, 9.61s/it]print_dice: 0.553622841835022
        print_iou: 0.3827652037143707
9934 masks_dr unique: tensor([-7.8197, -7.8102, -7.7880, ..., 11.8429, 11.8438, 11.8465],
           grad_fn=<Unique2Backward0>)
9935
9936 masks_dr unique: tensor([-7.8197, -7.8102, -7.7880, ..., 11.8429, 11.8438, 11.8465],
9937
           grad fn=<Unique2Backward0>)
9938 print_dice: 0.45995470881462097, print_iou: 0.29866310954093933
9939 Epoch 28/499: 96%| 96%| 154/160 [24:36<00:57, 9.60s/it]masks_dr unique: tensor([-7.
    8215, -7.8120, -7.7898, ..., 11.8511, 11.8514, 11.8545],
9940
           grad fn=<Unique2Backward0>)
9941 masks_dr unique: tensor([-7.8215, -7.8120, -7.7898, ..., 11.8511, 11.8514, 11.8545],
9942
           grad_fn=<Unique2Backward0>)
9943 print_dice: 0.5831517577171326, print_iou: 0.411583811044693
9944 Epoch 28/499: 97%| 97%| 155/160 [24:45<00:47, 9.56s/it]masks_dr unique: tensor([-7.
    6372, -7.6257, -7.6142, ..., 12.0662, 12.0717, 12.0761],
9945
           grad_fn=<Unique2Backward0>)
9946 masks_dr unique: tensor([-7.6372, -7.6257, -7.6142, ..., 12.0662, 12.0717, 12.0761],
           grad_fn=<Unique2Backward0>)
9948 print_dice: 0.4487869143486023, print_iou: 0.28931352496147156
9949 Epoch 28/499: 98%| 98%| 156/160 [24:55<00:38, 9.60s/it]masks_dr unique: tensor([-7.
    8194, -7.8100, -7.7878, ..., 11.8459, 11.8462, 11.8493],
9950
           grad_fn=<Unique2Backward0>)
9951 masks_dr unique: tensor([-7.8194, -7.8100, -7.7878, ..., 11.8459, 11.8462, 11.8493],
9952
           grad fn=<Unique2Backward0>)
9953 Epoch 28/499: 98%| 98%| 157/160 [25:04<00:28, 9.58s/it]print_dice: 0.
    47046294808387756, print_iou: 0.3075851798057556
9954 masks_dr unique: tensor([-7.4921, -7.4918, -7.4788, ..., 12.8780, 12.8783, 12.8792],
9955
           grad_fn=<Unique2Backward0>)
9956 masks_dr unique: tensor([-7.4921, -7.4918, -7.4788, ..., 12.8780, 12.8783, 12.8792],
           grad_fn=<Unique2Backward0>)
9957
9958 print dice: 0.46314263343811035, print_iou: 0.3013569414615631
9959 Epoch 28/499: 99%| 99%| 158/160 [25:14<00:19, 9.62s/it]masks_dr unique: tensor([-7.
    5562, -7.5448, -7.5397, ..., 12.1497, 12.1526, 12.1578],
9960
           grad_fn=<Unique2Backward0>)
9961 masks dr unique: tensor([-7.5562, -7.5448, -7.5397, ..., 12.1497, 12.1526, 12.1578],
9962
           grad fn=<Unique2Backward0>)
9963 Epoch 28/499: 99%| 159/160 [25:23<00:09, 9.51s/it]print_dice: 0.
    6137239933013916, print_iou: 0.442714124917984
9964 masks_dr unique: tensor([-7.7772, -7.7633, -7.7558, ..., 11.9943, 11.9998, 12.0049],
           grad_fn=<Unique2Backward0>)
9965
9966 masks_dr unique: tensor([-7.7772, -7.7633, -7.7558, ..., 11.9943, 11.9998, 12.0049],
           grad fn=<Unique2Backward0>)
9968 print_dice: 0.5636855959892273,
                                      print_iou: 0.39245280623435974
      [159/160] eta: 0:00:09
                                time: 9.5430 data: 0.0003
9970 Epoch 28/499: 100% | 100% | 160/160 [25:33<00:00, 9.59s/it]
9971 Total time: 0:25:33 (9.5871 s / it)
9972 Averaged stats: training_loss: -237.0675 (-237.0675) loss_mask: -237.0620 (-237.0620)
    loss_dice: -0.0055 (-0.0055)
                   | 0/12 [00:00<?, ?it/s]Net parameter norm: 1054.4253945135279
9973
      0%|
9974 Validating...
9975 Valid_dataloader len: 12
9976 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.2452e-04, 3.
```

```
9976 3423e-04, 3.5603e-04, ..., 9.9999e-01, 9.9999e-01,
9977
             9.9999e-01], grad_fn=<Unique2Backward0>)
9978 masks dr unique: tensor([5.2383e-04, 5.3376e-04, 5.4120e-04, ..., 9.9999e-01, 9.9999e-01,
9979
             9.9999e-01], grad fn=<Unique2Backward0>)
9980
                    .3860037326812744
                               time: 10.5723 data: 4.9155
9981 [ 0/12] eta: 0:02:06
9982 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.4449e-04, 2
      .7396e-04, 3.0983e-04, ..., 9.9999e-01, 9.9999e-01,
9983
             9.9999e-01], grad fn=<Unique2Backward0>)
9984 masks_dr unique: tensor([4.9163e-04, 4.9742e-04, 5.0195e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
9985
                    | 2/12 [00:16<01:18, 7.89s/it]print dice: 0.6082990765571594, print iou: 0
9986 17%
      .4370903968811035
9987 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.1195e-04, 3
      .8179e-04, 3.8671e-04, ..., 1.0000e+00, 1.0000e+00,
9988
             1.0000e+00], grad_fn=<Unique2Backward0>)
9989 masks_dr unique: tensor([5.8457e-04, 5.8697e-04, 5.8916e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
9991 print dice: 0.5250001549720764, print iou: 0.3559323251247406
                    | 3/12 [00:22<01:02, 6.90s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([3.4776e-04, 3.7342e-04, 3.7442e-04, ..., 9.9999e-01, 9.
     9999e-01,
9993
             9.9999e-01], grad_fn=<Unique2Backward0>)
9994 masks_dr unique: tensor([5.3421e-04, 5.3468e-04, 5.3714e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
9995
                    | 4/12 [00:28<00:52, 6.53s/it]print_dice: 0.5146951675415039, print_iou: 0
9996 33%
      .3465249240398407
9997 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.1620e-04, 2
      .3342e-04, 2.3745e-04, ..., 1.0000e+00, 1.0000e+00,
9998
             1.0000e+00], grad_fn=<Unique2Backward0>)
9999 masks_dr unique: tensor([3.7863e-04, 3.8324e-04, 3.8973e-04, ..., 1.0000e+00, 1.0000e+00,
10000
             1.0000e+00], grad_fn=<Unique2Backward0>)
10001 42%
                    | 5/12 [00:34<00:43, 6.25s/it]print_dice: 0.5754331350326538, print_iou: 0
      .4039355218410492
10002 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.1346e-04, 3
      .3266e-04, 3.5281e-04, ..., 9.9999e-01, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
10003
10004 masks_dr unique: tensor([5.0907e-04, 5.2245e-04, 5.2648e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad fn=<Unique2Backward0>)
10005
10006 print_dice: 0.5035372376441956, print_iou: 0.3364849388599396
                    | 6/12 [00:39<00:36, 6.07s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([4.1435e-04, 4.9985e-04, 5.0726e-04, ..., 1.0000e+00, 1.
     0000e+00,
10008
             1.0000e+00], grad_fn=<Unique2Backward0>)
10009 masks_dr unique: tensor([5.4122e-04, 5.5577e-04, 5.6870e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
10010
                    7/12 [00:45<00:30, 6.09s/it]print_dice: 0.43653884530067444, print_iou:
10011 58%
     0.2792131006717682
10012 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.1914e-04, 2
      .4561e-04, 2.4974e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
10013
10014 masks dr unique: tensor([3.5900e-04, 3.6434e-04, 3.6971e-04, ..., 1.0000e+00, 1.0000e+00,
10015
             1.0000e+00], grad_fn=<Unique2Backward0>)
10016 print_dice: 0.5429520606994629, print_iou: 0.372638463973999
10017 67%||
                  8/12 [00:51<00:23, 5.96s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([3.7355e-04, 4.1755e-04, 4.2536e-04, ..., 9.9999e-01, 9.
     9999e-01,
             9.9999e-01], grad fn=<Unique2Backward0>)
10018
10019 masks_dr unique: tensor([5.3675e-04, 5.4719e-04, 5.5242e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
10020
10021 print_dice: 0.5620679259300232, print_iou: 0.3908863067626953
               9/12 [00:58<00:18, 6.12s/it]masks dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([3.2501e-04, 3.8797e-04, 3.9203e-04, ..., 9.9999e-01, 9.
     9999e-01,
             9.9999e-01], grad fn=<Unique2Backward0>)
10023
10024 masks dr unique: tensor([6.8891e-04, 6.9267e-04, 6.9555e-04, ..., 9.9999e-01, 9.9999e-01,
10025
             9.9999e-01], grad fn=<Unique2Backward0>)
10026 print dice: 0.5735844373703003, print iou: 0.40211594104766846
```

```
| 10/12 [01:03<00:12, 6.01s/it]masks dr shape: torch.Size([1, 1, 32, 32, 32
10027 83%
     ]) unique sigmoid values: tensor([2.4250e-04, 2.5670e-04, 2.6384e-04, ..., 1.0000e+00, 1.
     0000e+00,
             1.0000e+00], grad fn=<Unique2Backward0>)
10028
10029 masks_dr unique: tensor([4.5470e-04, 4.5517e-04, 4.6135e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
10031 print dice: 0.6144582033157349, print iou: 0.44347861409187317
             ]) unique sigmoid values: tensor([2.9914e-04, 3.1910e-04, 3.2582e-04, ..., 9.9999e-01, 9.
     9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
10033
10034 masks_dr unique: tensor([4.5497e-04, 4.5937e-04, 4.7180e-04, ..., 9.9999e-01, 9.9999e-01,
10035
             9.9999e-01], grad_fn=<Unique2Backward0>)
0.40634623169898987
10037
      [11/12] eta: 0:00:06
                            time: 6.2690 data: 0.4104
10038 Total time: 0:01:15 (6.3032 s / it)
10039 ============
10040 Averaged stats:
10041 100% | 12/12 [01:15<00:00, 6.30s/it]
10042 Epoch 29/499: 0% | 0/160 [00:00<?, ?it/s]epoch: 29 learning rate:
10043 masks_dr unique: tensor([-7.5553, -7.5492, -7.5432, ..., 12.5112, 12.5114, 12.5121],
10044
            grad fn=<Unique2Backward0>)
10045 masks_dr unique: tensor([-7.5553, -7.5492, -7.5432, ..., 12.5112, 12.5114, 12.5121],
            grad_fn=<Unique2Backward0>)
10047 print dice: 0.526447594165802, print iou: 0.3572642505168915
10048 [ 0/160] eta: 0:36:00 time: 13.5012 data: 4.0785
                           | 1/160 [00:13<35:46, 13.50s/it]masks_dr unique: tensor([-7.
10049 Epoch 29/499:
                    1%|
     8627, -7.8538, -7.8462, ..., 12.0133, 12.0141, 12.0181],
            grad fn=<Unique2Backward0>)
10051 masks_dr unique: tensor([-7.8627, -7.8538, -7.8462, ..., 12.0133, 12.0141, 12.0181],
10052
            grad_fn=<Unique2Backward0>)
10053 print_dice: 0.4433528780937195, print_iou: 0.28481271862983704
10054 Epoch 29/499: 1%
                         | 2/160 [00:23<29:41, 11.28s/it]masks_dr unique: tensor([-7.
     5569, -7.5391, -7.5299, ..., 12.2753, 12.2779, 12.2824],
10055
           grad_fn=<Unique2Backward0>)
10056 masks_dr unique: tensor([-7.5569, -7.5391, -7.5299, ..., 12.2753, 12.2779, 12.2824],
10057
            grad_fn=<Unique2Backward0>)
                                | 3/160 [00:32<27:36, 10.55s/it]print_dice: 0.5906510949134827
10058 Epoch 29/499:
                    2%||
         print iou: 0.4190950393676758
10059 masks dr unique: tensor([-8.0739, -8.0610, -8.0537, ..., 13.0452, 13.0477, 13.0502],
           grad_fn=<Unique2Backward0>)
10061 masks_dr unique: tensor([-8.0739, -8.0610, -8.0537, ..., 13.0452, 13.0477, 13.0502],
            grad_fn=<Unique2Backward0>)
10063 Epoch 29/499:
                                4/160 [00:42<26:24, 10.16s/it]print_dice: 0.576048731803894
                    2%|
         print_iou: 0.404542475938797
10064 masks_dr unique: tensor([-7.8180, -7.8086, -7.7863, ..., 11.8497, 11.8505, 11.8532],
            grad_fn=<Unique2Backward0>)
10065
10066 masks_dr unique: tensor([-7.8180, -7.8086, -7.7863, ..., 11.8497, 11.8505, 11.8532],
            grad_fn=<Unique2Backward0>)
10067
                                | 5/160 [00:51<25:31, 9.88s/it]print dice: 0.5585653185844421
10068 Epoch 29/499:
                    3%|
         print_iou: 0.38750651478767395
10069 masks_dr unique: tensor([-7.5111, -7.5083, -7.4896, ..., 11.8607, 11.8651, 11.8701],
10070
            grad_fn=<Unique2Backward0>)
10071 masks_dr unique: tensor([-7.5111, -7.5083, -7.4896, ..., 11.8607, 11.8651, 11.8701],
            grad_fn=<Unique2Backward0>)
10072
                                   print iou: 0.3668525516986847
10073 print_dice: 0.5367843508720398,
                                | 6/160 [01:01<24:59, 9.74s/it]masks dr unique: tensor([-7.
10074 Epoch 29/499:
                    4%|
     8816, -7.8711, -7.8605, ..., 12.9849, 12.9871, 12.9878],
10075
            grad_fn=<Unique2Backward0>)
10076 masks_dr unique: tensor([-7.8816, -7.8711, -7.8605, ..., 12.9849, 12.9871, 12.9878],
            grad fn=<Unique2Backward0>)
                                     print_iou: 0.3686702251434326
10078 print dice: 0.5387275815010071,
                                7/160 [01:10<24:36, 9.65s/it]masks dr unique: tensor([-7.
10079 Epoch 29/499:
                    4%
     5811, -7.5642, -7.5611, ..., 12.2298, 12.2303, 12.2372],
10080
            grad_fn=<Unique2Backward0>)
10081 masks_dr unique: tensor([-7.5811, -7.5642, -7.5611, ..., 12.2298, 12.2303, 12.2372],
10082
            grad fn=<Unique2Backward0>)
10083 Epoch 29/499:
                    5%||
                                8/160 [01:20<24:15, 9.57s/it]print_dice: 0.
```

```
10083 44277292490005493, print iou: 0.2843341827392578
10084 masks_dr unique: tensor([-8.1288, -8.1177, -8.1076, ..., 12.6460, 12.6463, 12.6493],
           grad_fn=<Unique2Backward0>)
10086 masks_dr unique: tensor([-8.1288, -8.1177, -8.1076, ..., 12.6460, 12.6463, 12.6493],
           grad_fn=<Unique2Backward0>)
10087
10088 Epoch 29/499:
                    6%|
                                | 9/160 [01:30<24:18, 9.66s/it]print_dice: 0.5060074925422668
         print iou: 0.33869481086730957
10089 masks_dr unique: tensor([-7.2391, -7.2222, -7.2140, ..., 11.6316, 11.6352, 11.6399],
           grad_fn=<Unique2Backward0>)
10091 masks_dr unique: tensor([-7.2391, -7.2222, -7.2140, ..., 11.6316, 11.6352, 11.6399],
            grad_fn=<Unique2Backward0>)
10093 print_dice: 0.49859511852264404, print_iou: 0.3320856988430023
10094 Epoch 29/499: 6% ■ | 10/160 [01:39<24:02, 9.62s/it] masks_dr unique: tensor([-8.
     1243, -8.1176, -8.1145, ..., 13.2222, 13.2240, 13.2247],
10095
            grad_fn=<Unique2Backward0>)
10096 masks_dr unique: tensor([-8.1243, -8.1176, -8.1145, ..., 13.2222, 13.2240, 13.2247],
           grad_fn=<Unique2Backward0>)
10098 Epoch 29/499:
                                | 11/160 [01:49<23:48, 9.59s/it]print_dice: 0.
     6031280755996704, print_iou: 0.4317705035209656
10099 masks_dr unique: tensor([-7.8150, -7.8055, -7.7831, ..., 11.8505, 11.8517, 11.8542],
            grad_fn=<Unique2Backward0>)
10100
10101 masks_dr unique: tensor([-7.8150, -7.8055, -7.7831, ..., 11.8505, 11.8517, 11.8542],
10102
            grad fn=<Unique2Backward0>)
                                | 12/160 [01:58<23:35, 9.57s/it]print dice: 0.
10103 Epoch 29/499: 8%
     5023415088653564, print_iou: 0.33541789650917053
10104 masks_dr unique: tensor([-7.9085, -7.8954, -7.8833, ..., 12.8330, 12.8354, 12.8356],
10105
            grad fn=<Unique2Backward0>)
10106 masks_dr unique: tensor([-7.9085, -7.8954, -7.8833, ..., 12.8330, 12.8354, 12.8356],
           grad fn=<Unique2Backward0>)
10107
10108 print_dice: 0.4922105371952057, print_iou: 0.3264451324939728
0056, -7.9949, -7.9855, ..., 13.0801, 13.0812, 13.0826],
           grad_fn=<Unique2Backward0>)
10111 masks_dr unique: tensor([-8.0056, -7.9949, -7.9855, ..., 13.0801, 13.0812, 13.0826],
           grad fn=<Unique2Backward0>)
10112
10113 Epoch 29/499:
                   9%|
                                | 14/160 [02:17<23:02, 9.47s/it]print_dice: 0.
     6040991544723511, print_iou: 0.43276655673980713
10114 masks_dr unique: tensor([-7.7880, -7.7823, -7.7819, ..., 12.5608, 12.5681, 12.5723],
           grad_fn=<Unique2Backward0>)
10115
10116 masks_dr unique: tensor([-7.7880, -7.7823, -7.7819, ..., 12.5608, 12.5681, 12.5723],
            grad_fn=<Unique2Backward0>)
10117
10118 print_dice: 0.47367286682128906, print_iou: 0.31033506989479065
8145, -7.8052, -7.7825, ..., 11.8524, 11.8524, 11.8556],
10120
            grad_fn=<Unique2Backward0>)
10121 masks_dr unique: tensor([-7.8145, -7.8052, -7.7825, ..., 11.8524, 11.8524, 11.8556],
            grad_fn=<Unique2Backward0>)
                          | 16/160 [02:36<22:37, 9.43s/it]print_dice: 0.
10123 Epoch 29/499: 10%
     5290426015853882, print_iou: 0.3596586585044861
10124 masks_dr unique: tensor([-7.5082, -7.4962, -7.4844, ..., 12.2392, 12.2417, 12.2467],
10125
            grad_fn=<Unique2Backward0>)
10126 masks_dr unique: tensor([-7.5082, -7.4962, -7.4844, ..., 12.2392, 12.2417, 12.2467],
            grad fn=<Unique2Backward0>)
10127
10128 print_dice: 0.5196409225463867, print_iou: 0.3510235846042633
10129 Epoch 29/499: 11%
                          | 17/160 [02:45<22:30, 9.44s/it]masks_dr unique: tensor([-7.
     8140, -7.8047, -7.7818, ..., 11.8541, 11.8541, 11.8572],
            grad_fn=<Unique2Backward0>)
10130
10131 masks dr unique: tensor([-7.8140, -7.8047, -7.7818, ..., 11.8541, 11.8541, 11.8572],
            grad fn=<Unique2Backward0>)
                                 18/160 [02:55<22:28,
10133 Epoch 29/499: 11%
                                                       9.50s/it]print_dice: 0.
     5053163170814514, print_iou: 0.33807572722435
10134 masks_dr unique: tensor([-7.8140, -7.8048, -7.7818,
                                                       ..., 11.8524, 11.8524, 11.8556],
            grad_fn=<Unique2Backward0>)
10135
                                                       ..., 11.8524, 11.8524, 11.8556],
10136 masks_dr unique: tensor([-7.8140, -7.8048, -7.7818,
            grad_fn=<Unique2Backward0>)
10137
10138 Epoch 29/499: 12% ■
                                 19/160 [03:04<22:23,
                                                       9.53s/it]print_dice: 0.
                         print iou: 0.31683817505836487
     48121050000190735,
10139 masks_dr unique: tensor([-7.9273, -7.9169, -7.9050, ..., 13.3773, 13.3796, 13.3798],
10140
            grad fn=<Unique2Backward0>)
```

```
10141 masks dr unique: tensor([-7.9273, -7.9169, -7.9050, ..., 13.3773, 13.3796, 13.3798],
            grad fn=<Unique2Backward0>)
10143 print dice: 0.4720580279827118, print iou: 0.3089502453804016
10144 Epoch 29/499: 12%| | 20/160 [03:14<22:10, 9.50s/it]masks_dr unique: tensor([-7. 6437, -7.6318, -7.6284, ..., 11.9596, 11.9641, 11.9688],
10145
            grad_fn=<Unique2Backward0>)
10146 masks_dr unique: tensor([-7.6437, -7.6318, -7.6284, ..., 11.9596, 11.9641, 11.9688],
            grad_fn=<Unique2Backward0>)
10148 Epoch 29/499: 13%
                                21/160 [03:23<22:06, 9.54s/it]print_dice: 0.511202335357666
         print iou: 0.343365877866745
10149 masks_dr unique: tensor([-7.4760, -7.4622, -7.4393, ..., 11.8910, 11.8929, 11.8970],
            grad fn=<Unique2Backward0>)
10151 masks_dr unique: tensor([-7.4760, -7.4622, -7.4393, ..., 11.8910, 11.8929, 11.8970],
            grad fn=<Unique2Backward0>)
                                 22/160 [03:33<21:58, 9.55s/it]print_dice: 0.
10153 Epoch 29/499: 14%
     5625334978103638, print_iou: 0.3913367688655853
10154 masks_dr unique: tensor([-7.6753, -7.6739, -7.6672, ..., 13.2635, 13.2638, 13.2646],
            grad_fn=<Unique2Backward0>)
10156 masks_dr unique: tensor([-7.6753, -7.6739, -7.6672, ..., 13.2635, 13.2638, 13.2646],
            grad fn=<Unique2Backward0>)
10158 print_dice: 0.5176845788955688, print_iou: 0.3492404818534851
10159 Epoch 29/499: 14%
                             | 23/160 [03:43<21:46, 9.53s/it]masks_dr unique: tensor([-7.
     8157, -7.8065, -7.7834, ..., 11.8542, 11.8552, 11.8578],
10160
            grad_fn=<Unique2Backward0>)
10161 masks_dr unique: tensor([-7.8157, -7.8065, -7.7834, ..., 11.8542, 11.8552, 11.8578],
10162
            grad_fn=<Unique2Backward0>)
10163 print dice: 0.5130246877670288, print iou: 0.34501224756240845
10164 Epoch 29/499: 15% | 24/160 [03:52<21:32, 9.50s/it]masks_dr unique: tensor([-7.
     8172, -7.8081, -7.7851, ..., 11.8538, 11.8538, 11.8570],
10165
            grad fn=<Unique2Backward0>)
10166 masks_dr unique: tensor([-7.8172, -7.8081, -7.7851, ..., 11.8538, 11.8538, 11.8570],
            grad fn=<Unique2Backward0>)
10167
10168 print dice: 0.5014846920967102, print iou: 0.3346543312072754
5216, -7.5120, -7.5097, ..., 11.9673, 11.9721, 11.9761],
10170
            grad_fn=<Unique2Backward0>)
10171 masks_dr unique: tensor([-7.5216, -7.5120, -7.5097, ..., 11.9673, 11.9721, 11.9761],
            grad_fn=<Unique2Backward0>)
10172
10173 Epoch 29/499: 16%
                              26/160 [04:11<21:20, 9.55s/it]print_dice: 0.
     5002788305282593, print iou: 0.33358123898506165
10174 masks_dr unique: tensor([-7.8186, -7.8094, -7.7864, ..., 11.8538, 11.8546, 11.8573],
            grad_fn=<Unique2Backward0>)
10175
10176 masks_dr unique: tensor([-7.8186, -7.8094, -7.7864, ..., 11.8538, 11.8546, 11.8573],
            grad_fn=<Unique2Backward0>)
10178 Epoch 29/499: 17%|■
                                 | 27/160 [04:21<21:12, 9.57s/it]print_dice: 0.
     5631973147392273, print_iou: 0.3919795751571655
10179 masks_dr unique: tensor([-8.2116, -8.1989, -8.1878, ..., 13.2030, 13.2059, 13.2088],
            grad_fn=<Unique2Backward0>)
10180
10181 masks_dr unique: tensor([-8.2116, -8.1989, -8.1878, ..., 13.2030, 13.2059, 13.2088],
            grad fn=<Unique2Backward0>)
10183 print_dice: 0.48739081621170044,
                                       print_iou: 0.3222185969352722
                             | 28/160 [04:30<21:04, 9.58s/it]masks_dr unique: tensor([-8.
10184 Epoch 29/499: 18%
     2531, -8.2435, -8.2299, ..., 13.2725, 13.2756, 13.2785],
            grad fn=<Unique2Backward0>)
10185
10186 masks_dr unique: tensor([-8.2531, -8.2435, -8.2299, ..., 13.2725, 13.2756, 13.2785],
10187
            grad_fn=<Unique2Backward0>)
10188 Epoch 29/499: 18%
                                  29/160 [04:40<20:47, 9.52s/it]print_dice: 0.491354376077652
         print_iou: 0.32569238543510437
10189 masks_dr unique: tensor([-7.7960, -7.7902, -7.7736, ..., 13.0796, 13.0804, 13.0832],
10190
            grad_fn=<Unique2Backward0>)
10191 masks_dr unique: tensor([-7.7960, -7.7902, -7.7736, ..., 13.0796, 13.0804, 13.0832],
            grad_fn=<Unique2Backward0>)
10192
                                                         9.52s/it]print dice: 0.
10193 Epoch 29/499: 19%
                                  30/160 [04:49<20:38,
     5373488664627075, print iou: 0.3673800826072693
10194 masks_dr unique: tensor([-8.0602, -8.0594, -8.0508,
                                                        ..., 13.1969, 13.1977, 13.1984],
            grad_fn=<Unique2Backward0>)
10195
10196 masks_dr unique: tensor([-8.0602, -8.0594, -8.0508, ..., 13.1969, 13.1977, 13.1984],
            grad_fn=<Unique2Backward0>)
10197
10198 Epoch 29/499: 19%
                                  | 31/160 [04:59<20:27, 9.52s/it]print dice: 0.
```

```
10198 5140215158462524,
                       print iou: 0.3459145426750183
10199 masks_dr unique: tensor([-7.8395, -7.8335, -7.8329, ..., 12.8984, 12.8996, 12.9000],
            grad fn=<Unique2Backward0>)
10201 masks_dr unique: tensor([-7.8395, -7.8335, -7.8329, ..., 12.8984, 12.8996, 12.9000],
10202
            grad_fn=<Unique2Backward0>)
10203 Epoch 29/499: 20%
                             | 32/160 [05:08<20:20, 9.53s/it]print_dice: 0.
     4847477376461029, print_iou: 0.31991222500801086
10204 masks_dr unique: tensor([-8.1117, -8.0986, -8.0888, ..., 13.1565, 13.1594, 13.1624],
            grad_fn=<Unique2Backward0>)
10205
10206 masks_dr unique: tensor([-8.1117, -8.0986, -8.0888, ..., 13.1565, 13.1594, 13.1624],
            grad fn=<Unique2Backward0>)
10207
10208 print_dice: 0.5667238831520081, print_iou: 0.39540451765060425
10209 Epoch 29/499: 21% 33/160 [05:18<20:05, 9.49s/it] masks_dr unique: tensor([-7.
     9193, -7.9029, -7.8952, ..., 12.5639, 12.5703, 12.5741],
10210
            grad_fn=<Unique2Backward0>)
10211 masks_dr unique: tensor([-7.9193, -7.9029, -7.8952, ..., 12.5639, 12.5703, 12.5741],
            grad_fn=<Unique2Backward0>)
10213 Epoch 29/499: 21%
                           | 34/160 [05:27<19:57, 9.50s/it]print_dice: 0.
     5913344025611877, print_iou: 0.41978341341018677
10214 masks_dr unique: tensor([-7.8191, -7.8102, -7.7874, ..., 11.8561, 11.8561, 11.8593],
            grad_fn=<Unique2Backward0>)
10215
10216 masks_dr unique: tensor([-7.8191, -7.8102, -7.7874, ..., 11.8561, 11.8561, 11.8593],
10217
            grad fn=<Unique2Backward0>)
10218 print_dice: 0.5652656555175781, print_iou: 0.3939862549304962
10219 Epoch 29/499: 22%
                             | 35/160 [05:37<19:48, 9.51s/it]masks_dr unique: tensor([-7.
     8178, -7.8089, -7.7861, ..., 11.8544, 11.8544, 11.8575],
            grad fn=<Unique2Backward0>)
10220
10221 masks_dr unique: tensor([-7.8178, -7.8089, -7.7861, ..., 11.8544, 11.8544, 11.8575],
10222
            grad_fn=<Unique2Backward0>)
10223 print_dice: 0.5142512917518616,
                                    print_iou: 0.346122682094574
10224 Epoch 29/499: 22% ■ 36/160 [05:46<19:39, 9.51s/it]masks_dr unique: tensor([-7.
     7913, -7.7855, -7.7806, ..., 13.2388, 13.2390, 13.2407],
            grad fn=<Unique2Backward0>)
10226 masks_dr unique: tensor([-7.7913, -7.7855, -7.7806, ..., 13.2388, 13.2390, 13.2407],
10227
            grad_fn=<Unique2Backward0>)
10228 Epoch 29/499: 23%
                                | 37/160 [05:56<19:32, 9.53s/it]print_dice: 0.
     5588520765304565, print_iou: 0.38778257369995117
10229 masks_dr unique: tensor([-7.9248, -7.9126, -7.9005, ..., 13.0106, 13.0123, 13.0126],
            grad_fn=<Unique2Backward0>)
10230
10231 masks_dr unique: tensor([-7.9248, -7.9126, -7.9005, ..., 13.0106, 13.0123, 13.0126],
            grad fn=<Unique2Backward0>)
10232
10233 Epoch 29/499: 24%
                                 | 38/160 [06:05<19:21, 9.52s/it]print_dice: 0.
     4609656035900116, print_iou: 0.29951611161231995
10234 masks_dr unique: tensor([-7.8455, -7.8437, -7.8221, ..., 12.4331, 12.4393, 12.4443],
10235
            grad_fn=<Unique2Backward0>)
10236 masks_dr unique: tensor([-7.8455, -7.8437, -7.8221, ..., 12.4331, 12.4393, 12.4443],
            grad_fn=<Unique2Backward0>)
10238 print_dice: 0.5352435111999512, print_iou: 0.36541470885276794
7380, -7.7311, -7.7302, ..., 12.5168, 12.5170, 12.5230],
10240
            grad_fn=<Unique2Backward0>)
10241 masks_dr unique: tensor([-7.7380, -7.7311, -7.7302, ..., 12.5168, 12.5170, 12.5230],
10242
            grad_fn=<Unique2Backward0>)
10243 Epoch 29/499: 25%
                             | 40/160 [06:24<19:02, 9.52s/it]print_dice: 0.
     5406808853149414, print_iou: 0.37050214409828186
10244 masks_dr unique: tensor([-7.4651, -7.4512, -7.4474, ..., 12.1851, 12.1912, 12.1944],
            grad_fn=<Unique2Backward0>)
10245
10246 masks_dr unique: tensor([-7.4651, -7.4512, -7.4474, ..., 12.1851, 12.1912, 12.1944],
            grad_fn=<Unique2Backward0>)
10248 Epoch 29/499: 26%
                                 41/160 [06:34<18:54,
                                                        9.54s/it]print_dice: 0.
     5264754891395569, print iou: 0.35728996992111206
10249 masks dr unique: tensor([-7.5606, -7.5517, -7.5418,
                                                        ..., 12.1736, 12.1798, 12.1864],
10250
            grad_fn=<Unique2Backward0>)
10251 masks_dr unique: tensor([-7.5606, -7.5517, -7.5418,
                                                        ..., 12.1736, 12.1798, 12.1864],
10252
            grad_fn=<Unique2Backward0>)
10253 Epoch 29/499: 26%
                                 42/160 [06:43<18:43,
                                                        9.52s/it]print_dice: 0.
     5406821966171265,
                        print_iou: 0.37050342559814453
10254 masks_dr unique: tensor([-7.8245, -7.8157, -7.7931, ..., 11.8540, 11.8541, 11.8572],
            grad fn=<Unique2Backward0>)
10255
```

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10256 masks_dr unique: tensor([-7.8245, -7.8157, -7.7931, ..., 11.8540, 11.8541, 11.8572],
            grad fn=<Unique2Backward0>)
10258 print dice: 0.5181986093521118, print iou: 0.34970855712890625
                            | 43/160 [06:53<18:27, 9.47s/it]masks_dr unique: tensor([-7.
10259 Epoch 29/499: 27%
     6686, -7.6640, -7.6603, ..., 11.9287, 11.9358, 11.9410],
10260
            grad_fn=<Unique2Backward0>)
10261 masks_dr unique: tensor([-7.6686, -7.6640, -7.6603, ..., 11.9287, 11.9358, 11.9410],
            grad_fn=<Unique2Backward0>)
10262
10263 Epoch 29/499: 28%
                              44/160 [07:02<18:17, 9.46s/it]print_dice: 0.
     5611141324043274, print iou: 0.3899642825126648
10264 masks dr unique: tensor([-7.4973, -7.4789, -7.4756, ..., 11.4584, 11.4637, 11.4688],
            grad fn=<Unique2Backward0>)
10265
10266 masks dr unique: tensor([-7.4973, -7.4789, -7.4756, ..., 11.4584, 11.4637, 11.4688],
            grad fn=<Unique2Backward0>)
10268 Epoch 29/499: 28%
                                45/160 [07:12<18:14, 9.52s/it]print_dice: 0.
     5523102283477783, print_iou: 0.3815114498138428
10269 masks_dr unique: tensor([-7.8276, -7.8187, -7.7961, ..., 11.8583, 11.8592, 11.8619],
            grad_fn=<Unique2Backward0>)
10271 masks_dr unique: tensor([-7.8276, -7.8187, -7.7961, ..., 11.8583, 11.8592, 11.8619],
            grad_fn=<Unique2Backward0>)
10272
10273 Epoch 29/499: 29%
                             46/160 [07:21<18:03, 9.50s/it]print_dice: 0.
     5838015675544739, print_iou: 0.4122315049171448
10274 masks_dr unique: tensor([-7.8280, -7.8191, -7.7964, ..., 11.8578, 11.8585, 11.8613],
10275
            grad_fn=<Unique2Backward0>)
10276 masks_dr unique: tensor([-7.8280, -7.8191, -7.7964, ..., 11.8578, 11.8585, 11.8613],
10277
            grad_fn=<Unique2Backward0>)
10278 print dice: 0.5342597365379333, print_iou: 0.3644982576370239
10279 Epoch 29/499: 29% 47/160 [07:31<17:50, 9.47s/it] masks_dr unique: tensor([-7.
     4126, -7.3976, -7.3946, ..., 12.5697, 12.5703, 12.5705],
10280
            grad fn=<Unique2Backward0>)
10281 masks_dr unique: tensor([-7.4126, -7.3976, -7.3946, ..., 12.5697, 12.5703, 12.5705],
10282
            grad_fn=<Unique2Backward0>)
10283 print_dice: 0.514312207698822, print_iou: 0.346177875995636
10284 Epoch 29/499: 30% 48/160 [07:40<17:39, 9.46s/it] masks_dr unique: tensor([-7.
     5688, -7.5637, -7.5634, ..., 11.5146, 11.5174, 11.5201],
10285
            grad_fn=<Unique2Backward0>)
10286 masks_dr unique: tensor([-7.5688, -7.5637, -7.5634, ..., 11.5146, 11.5174, 11.5201],
10287
            grad_fn=<Unique2Backward0>)
10288 print_dice: 0.5019544363021851, print_iou: 0.33507290482521057
5183, -7.5108, -7.5103, ..., 11.7751, 11.7759, 11.7793],
10290
            grad_fn=<Unique2Backward0>)
10291 masks_dr unique: tensor([-7.5183, -7.5108, -7.5103, ..., 11.7751, 11.7759, 11.7793],
            grad fn=<Unique2Backward0>)
10293 print_dice: 0.5612841844558716,
                                    print_iou: 0.39012861251831055
10294 Epoch 29/499: 31%| | 50/160 [07:59<17:24, 9.50s/it]masks_dr unique: tensor([-7.
     8325, -7.8220, -7.8095, ..., 12.4350, 12.4428, 12.4477],
10295
            grad_fn=<Unique2Backward0>)
10296 masks_dr unique: tensor([-7.8325, -7.8220, -7.8095, ..., 12.4350, 12.4428, 12.4477],
            grad_fn=<Unique2Backward0>)
10298 Epoch 29/499: 32%
                             51/160 [08:09<17:20, 9.54s/it]print_dice: 0.
     4541926681995392, print_iou: 0.293822318315506
10299 masks_dr unique: tensor([-7.9931, -7.9829, -7.9795, ..., 12.9416, 12.9444, 12.9472],
            grad_fn=<Unique2Backward0>)
10300
10301 masks_dr unique: tensor([-7.9931, -7.9829, -7.9795, ..., 12.9416, 12.9444, 12.9472],
            grad_fn=<Unique2Backward0>)
10302
10303 print_dice: 0.4986550509929657,
                                    print_iou: 0.33213889598846436
                                | 52/160 [08:18<17:02, 9.47s/it]masks_dr unique: tensor([-7.
10304 Epoch 29/499: 32%|
     8323, -7.8235, -7.8008, ..., 11.8568, 11.8574, 11.8602],
10305
            grad_fn=<Unique2Backward0>)
10306 masks dr unique: tensor([-7.8323, -7.8235, -7.8008, ..., 11.8568, 11.8574, 11.8602],
            grad_fn=<Unique2Backward0>)
10308 print dice: 0.5526254177093506,
                                     print_iou: 0.38181227445602417
10309 Epoch 29/499: 33%
                                 53/160 [08:28<16:50, 9.45s/it]masks_dr unique: tensor([-7.
     8329, -7.8240, -7.8013, ..., 11.8558, 11.8560, 11.8590],
10310
            grad_fn=<Unique2Backward0>)
10311 masks_dr unique: tensor([-7.8329, -7.8240, -7.8013, ..., 11.8558, 11.8560, 11.8590],
10312
            grad_fn=<Unique2Backward0>)
10313 Epoch 29/499: 34%
                                 54/160 [08:37<16:46, 9.50s/it]print dice: 0.
```

```
print iou: 0.39157775044441223
10313 5627824068069458,
10314 masks_dr unique: tensor([-7.8841, -7.8833, -7.8566, ..., 12.1987, 12.2042, 12.2107],
            grad fn=<Unique2Backward0>)
10316 masks_dr unique: tensor([-7.8841, -7.8833, -7.8566, ..., 12.1987, 12.2042, 12.2107],
            grad_fn=<Unique2Backward0>)
10318 Epoch 29/499: 34%
                               | 55/160 [08:47<16:39, 9.52s/it]print_dice: 0.53726726770401
         print_iou: 0.3673037588596344
10319 masks_dr unique: tensor([-7.7326, -7.7255, -7.7184, ..., 13.1475, 13.1488, 13.1492],
            grad_fn=<Unique2Backward0>)
10321 masks_dr unique: tensor([-7.7326, -7.7255, -7.7184, ..., 13.1475, 13.1488, 13.1492],
            grad_fn=<Unique2Backward0>)
10322
                                 | 56/160 [08:56<16:32, 9.54s/it]print dice: 0.
10323 Epoch 29/499: 35%
     5346684455871582, print_iou: 0.3648788332939148
10324 masks_dr unique: tensor([-7.8337, -7.8249, -7.8022, ..., 11.8555, 11.8564, 11.8590],
            grad_fn=<Unique2Backward0>)
10325
10326 masks_dr unique: tensor([-7.8337, -7.8249, -7.8022, ..., 11.8555, 11.8564, 11.8590],
            grad_fn=<Unique2Backward0>)
10328 Epoch 29/499: 36%
                                | 57/160 [09:06<16:23, 9.55s/it]print_dice: 0.
     4328315556049347, print_iou: 0.276187002658844
10329 masks_dr unique: tensor([-7.8366, -7.8278, -7.8051, ..., 11.8550, 11.8554, 11.8583],
            grad_fn=<Unique2Backward0>)
10330
10331 masks_dr unique: tensor([-7.8366, -7.8278, -7.8051, ..., 11.8550, 11.8554, 11.8583],
10332
            grad fn=<Unique2Backward0>)
10333 print_dice: 0.5294671654701233, print_iou: 0.3600512146949768
10334 Epoch 29/499: 36% 58/160 [09:15<16:08, 9.50s/it] masks_dr unique: tensor([-7.
     8389, -7.8302, -7.8075, ..., 11.8553, 11.8559, 11.8587],
10335
            grad fn=<Unique2Backward0>)
10336 masks_dr unique: tensor([-7.8389, -7.8302, -7.8075, ..., 11.8553, 11.8559, 11.8587],
            grad fn=<Unique2Backward0>)
10337
10338 print_dice: 0.5408799648284912, print_iou: 0.37068915367126465
10339 Epoch 29/499: 37% 59/160 [09:25<16:03, 9.54s/it] masks_dr unique: tensor([-7.
     9772, -7.9571, -7.9546, ..., 11.9712, 11.9721, 11.9778],
            grad_fn=<Unique2Backward0>)
10341 masks_dr unique: tensor([-7.9772, -7.9571, -7.9546, ..., 11.9712, 11.9721, 11.9778],
10342
            grad_fn=<Unique2Backward0>)
10343 Epoch 29/499: 38%
                               60/160 [09:35<15:53, 9.54s/it]print_dice: 0.
     4896748960018158, print_iou: 0.324218213558197
10344 masks_dr unique: tensor([-7.8372, -7.8285, -7.8059, ..., 11.8529, 11.8534, 11.8562],
            grad_fn=<Unique2Backward0>)
10345
10346 masks_dr unique: tensor([-7.8372, -7.8285, -7.8059, ..., 11.8529, 11.8534, 11.8562],
10347
            grad fn=<Unique2Backward0>)
10348 print_dice: 0.5625852942466736, print_iou: 0.3913869261741638
5526, -7.5507, -7.5297, ..., 12.3655, 12.3697, 12.3712],
10350
            grad_fn=<Unique2Backward0>)
10351 masks_dr unique: tensor([-7.5526, -7.5507, -7.5297, ..., 12.3655, 12.3697, 12.3712],
            grad_fn=<Unique2Backward0>)
10353 Epoch 29/499: 39%
                             62/160 [09:54<15:31, 9.51s/it]print_dice: 0.
     4975718855857849, print_iou: 0.3311785161495209
10354 masks_dr unique: tensor([-7.8759, -7.8638, -7.8554, ..., 13.2283, 13.2293, 13.2296],
10355
            grad_fn=<Unique2Backward0>)
10356 masks_dr unique: tensor([-7.8759, -7.8638, -7.8554, ..., 13.2283, 13.2293, 13.2296],
            grad_fn=<Unique2Backward0>)
10357
10358 Epoch 29/499: 39% 63/160 [10:03<15:22, 9.51s/it]print_dice: 0.
     5007721185684204, print_iou: 0.33402004837989807
10359 masks_dr unique: tensor([-7.8390, -7.8303, -7.8077, ..., 11.8522, 11.8526, 11.8555],
            grad_fn=<Unique2Backward0>)
10360
10361 masks_dr unique: tensor([-7.8390, -7.8303, -7.8077, ..., 11.8522, 11.8526, 11.8555],
            grad_fn=<Unique2Backward0>)
                                     print_iou: 0.36885538697242737
10363 print dice: 0.538925290107727,
10364 Epoch 29/499: 40%
                                 64/160 [10:13<15:11, 9.50s/it]masks_dr unique: tensor([-8.
     0134, -8.0025, -7.9884, ..., 12.3511, 12.3530, 12.3538],
            grad fn=<Unique2Backward0>)
10365
10366 masks dr unique: tensor([-8.0134, -8.0025, -7.9884, ..., 12.3511, 12.3530, 12.3538],
            grad fn=<Unique2Backward0>)
10367
10368 Epoch 29/499: 41%
                                 65/160 [10:22<15:12, 9.61s/it]print dice: 0.
     5495749115943909,
                        print iou: 0.37890610098838806
10369 masks_dr unique: tensor([-7.6438, -7.6400, -7.6260, ..., 11.5276, 11.5341, 11.5396],
            grad_fn=<Unique2Backward0>)
10370
```

```
10371 masks dr unique: tensor([-7.6438, -7.6400, -7.6260, ..., 11.5276, 11.5341, 11.5396],
            grad fn=<Unique2Backward0>)
10372
10373 Epoch 29/499: 41%
                                 66/160 [10:32<15:02, 9.60s/it]print dice: 0.
                       print_iou: 0.37907251715660095
     5497499704360962,
10374 masks_dr unique: tensor([-7.7975, -7.7935, -7.7795, ..., 13.2306, 13.2317, 13.2352],
10375
            grad_fn=<Unique2Backward0>)
10376 masks_dr unique: tensor([-7.7975, -7.7935, -7.7795, ..., 13.2306, 13.2317, 13.2352],
            grad_fn=<Unique2Backward0>)
10377
10378 Epoch 29/499: 42%
                              67/160 [10:42<14:56, 9.64s/it]print_dice: 0.
     5927457809448242, print iou: 0.4212073087692261
10379 masks_dr unique: tensor([-7.9098, -7.9058, -7.8908, ..., 13.0540, 13.0541, 13.0548],
10380
            grad_fn=<Unique2Backward0>)
10381 masks dr unique: tensor([-7.9098, -7.9058, -7.8908, ..., 13.0540, 13.0541, 13.0548],
            grad fn=<Unique2Backward0>)
10383 print_dice: 0.5427700877189636.
                                      print_iou: 0.372467041015625
10384 Epoch 29/499: 42% 68/160 [10:51<14:41, 9.58s/it] masks_dr unique: tensor([-7.
     8418, -7.8332, -7.8107, ..., 11.8534, 11.8542, 11.8569],
            grad_fn=<Unique2Backward0>)
10385
10386 masks_dr unique: tensor([-7.8418, -7.8332, -7.8107, ..., 11.8534, 11.8542, 11.8569],
            grad_fn=<Unique2Backward0>)
10388 Epoch 29/499: 43% 69/160 [11:01<14:34, 9.61s/it]print_dice: 0.
     4276687204837799, print_iou: 0.2719965875148773
10389 masks dr unique: tensor([-7.8429, -7.8342, -7.8116, ..., 11.8609, 11.8619, 11.8645],
            grad_fn=<Unique2Backward0>)
10391 masks_dr unique: tensor([-7.8429, -7.8342, -7.8116, ..., 11.8609, 11.8619, 11.8645],
            grad_fn=<Unique2Backward0>)
10392
10393 Epoch 29/499: 44%
                                 | 70/160 [11:10<14:23, 9.60s/it]print dice: 0.
     6014025211334229, print_iou: 0.4300040006637573
10394 masks_dr unique: tensor([-7.6982, -7.6821, -7.6741, ..., 11.7254, 11.7323, 11.7375],
            grad fn=<Unique2Backward0>)
10395
10396 masks_dr unique: tensor([-7.6982, -7.6821, -7.6741, ..., 11.7254, 11.7323, 11.7375],
10397
            grad_fn=<Unique2Backward0>)
10398 Epoch 29/499: 44%
                                 71/160 [11:20<14:09, 9.54s/it]print_dice: 0.517035961151123
         print_iou: 0.34865039587020874
10399 masks_dr unique: tensor([-7.8889, -7.8793, -7.8711, ..., 12.3555, 12.3563, 12.3575],
            grad_fn=<Unique2Backward0>)
10401 masks_dr unique: tensor([-7.8889, -7.8793, -7.8711, ..., 12.3555, 12.3563, 12.3575],
            grad_fn=<Unique2Backward0>)
10402
10403 print_dice: 0.442534863948822, print_iou: 0.28413787484169006
10404 Epoch 29/499: 45%| 72/160 [11:29<13:59, 9.54s/it]masks_dr unique: tensor([-7.
     6846, -7.6843, -7.6840, ..., 13.3544, 13.3544, 13.3555],
10405
            grad_fn=<Unique2Backward0>)
10406 masks_dr unique: tensor([-7.6846, -7.6843, -7.6840, ..., 13.3544, 13.3544, 13.3555],
            grad_fn=<Unique2Backward0>)
10408 Epoch 29/499: 46% 73/160 [11:39<13:50, 9.55s/it]print_dice: 0.599678099155426
         print_iou: 0.4282430410385132
10409 masks_dr unique: tensor([-7.3478, -7.3408, -7.3330, ..., 11.6765, 11.6820, 11.6865],
            grad_fn=<Unique2Backward0>)
10410
10411 masks_dr unique: tensor([-7.3478, -7.3408, -7.3330, ..., 11.6765, 11.6820, 11.6865],
            grad fn=<Unique2Backward0>)
10412
10413 Epoch 29/499: 46% 74/160 [11:49<13:40, 9.54s/it]print dice: 0.
     5392393469810486, print_iou: 0.36914971470832825
10414 masks dr unique: tensor([-7.8459, -7.8373, -7.8149, ..., 11.8620, 11.8624, 11.8654],
10415
            grad_fn=<Unique2Backward0>)
10416 masks_dr unique: tensor([-7.8459, -7.8373, -7.8149, ..., 11.8620, 11.8624, 11.8654],
            grad_fn=<Unique2Backward0>)
10417
10418 print_dice: 0.5258772969245911,
                                     print_iou: 0.3567391633987427
                        | 75/160 [11:58<13:33, 9.57s/it]masks_dr unique: tensor([-7.
10419 Epoch 29/499: 47%|
     7606, -7.7588, -7.7310, ..., 11.8732, 11.8772, 11.8828],
10420
            grad_fn=<Unique2Backward0>)
10421 masks dr unique: tensor([-7.7606, -7.7588, -7.7310, ..., 11.8732, 11.8772, 11.8828],
            grad_fn=<Unique2Backward0>)
10423 print dice: 0.5193513631820679,
                                      print_iou: 0.350759357213974
10424 Epoch 29/499: 48%
                                76/160 [12:08<13:25, 9.59s/it]masks_dr unique: tensor([-8.
     0979, -8.0903, -8.0710, ..., 13.4772, 13.4796, 13.4828],
10425
            grad_fn=<Unique2Backward0>)
10426 masks_dr unique: tensor([-8.0979, -8.0903, -8.0710, ..., 13.4772, 13.4796, 13.4828],
10427
            grad fn=<Unique2Backward0>)
10428 Epoch 29/499: 48%
                                 77/160 [12:17<13:07, 9.49s/it]print dice: 0.
```

```
print iou: 0.3734011948108673
10428 5437613129615784,
10429 masks_dr unique: tensor([-7.5470, -7.5385, -7.5379, ..., 11.8775, 11.8822, 11.8863],
            grad fn=<Unique2Backward0>)
10431 masks_dr unique: tensor([-7.5470, -7.5385, -7.5379, ..., 11.8775, 11.8822, 11.8863],
            grad_fn=<Unique2Backward0>)
10433 print_dice: 0.5109041333198547, print_iou: 0.34309685230255127
10434 Epoch 29/499: 49% | 78/160 [12:26<12:57, 9.48s/it] masks_dr unique: tensor([-7.
     7647, -7.7634, -7.7407, ..., 12.2135, 12.2198, 12.2252],
            grad_fn=<Unique2Backward0>)
10435
10436 masks dr unique: tensor([-7.7647, -7.7634, -7.7407, ..., 12.2135, 12.2198, 12.2252],
            grad_fn=<Unique2Backward0>)
10438 print_dice: 0.47500088810920715, print_iou: 0.3114761710166931
8458, -7.8372, -7.8147, ..., 11.8637, 11.8643, 11.8671],
10440
            grad fn=<Unique2Backward0>)
10441 masks_dr unique: tensor([-7.8458, -7.8372, -7.8147, ..., 11.8637, 11.8643, 11.8671],
            grad fn=<Unique2Backward0>)
10443 print_dice: 0.5057477355003357, print_iou: 0.33846208453178406
10444 Epoch 29/499: 50% 80/160 [12:46<12:44, 9.55s/it] masks_dr unique: tensor([-7.
     8464, -7.8378, -7.8153, ..., 11.8611, 11.8624, 11.8648],
            grad_fn=<Unique2Backward0>)
10445
10446 masks_dr unique: tensor([-7.8464, -7.8378, -7.8153, ..., 11.8611, 11.8624, 11.8648],
10447
            grad_fn=<Unique2Backward0>)
10448 Epoch 29/499: 51%
                             81/160 [12:55<12:30, 9.50s/it]print_dice: 0.
     5732673406600952, print_iou: 0.4018043279647827
10449 masks_dr unique: tensor([-7.9348, -7.9311, -7.9173, ..., 13.1837, 13.1840, 13.1848],
            grad fn=<Unique2Backward0>)
10451 masks_dr unique: tensor([-7.9348, -7.9311, -7.9173, ..., 13.1837, 13.1840, 13.1848],
10452
            grad_fn=<Unique2Backward0>)
10453 Epoch 29/499: 51%
                                 82/160 [13:05<12:21, 9.51s/it]print_dice: 0.
     5480660200119019, print iou: 0.3774730861186981
10454 masks_dr unique: tensor([-7.8670, -7.8616, -7.8480, ..., 12.4382, 12.4401, 12.4433],
            grad fn=<Unique2Backward0>)
10456 masks dr unique: tensor([-7.8670, -7.8616, -7.8480, ..., 12.4382, 12.4401, 12.4433],
10457
            grad_fn=<Unique2Backward0>)
10458 Epoch 29/499: 52%
                                | 83/160 [13:14<12:16, 9.57s/it]print_dice: 0.
     5487557053565979, print_iou: 0.37812772393226624
10459 masks_dr unique: tensor([-7.4535, -7.4455, -7.4375, ..., 13.0056, 13.0056, 13.0057],
            grad_fn=<Unique2Backward0>)
10460
10461 masks_dr unique: tensor([-7.4535, -7.4455, -7.4375, ..., 13.0056, 13.0056, 13.0057],
10462
            grad fn=<Unique2Backward0>)
10463 Epoch 29/499: 52%
                                | 84/160 [13:24<12:06, 9.57s/it]print_dice: 0.
     5123934149742126, print_iou: 0.3444414734840393
10464 masks_dr unique: tensor([-7.8461, -7.8376, -7.8151, ..., 11.8670, 11.8672, 11.8702],
            grad_fn=<Unique2Backward0>)
10465
10466 masks_dr unique: tensor([-7.8461, -7.8376, -7.8151, ..., 11.8670, 11.8672, 11.8702],
            grad_fn=<Unique2Backward0>)
10468 Epoch 29/499: 53%
                                85/160 [13:33<11:56, 9.56s/it]print_dice: 0.
     5127419829368591, print_iou: 0.344756543636322
10469 masks_dr unique: tensor([-8.2295, -8.2148, -8.2118, ..., 13.3894, 13.3916, 13.3923],
10470
            grad_fn=<Unique2Backward0>)
10471 masks dr unique: tensor([-8.2295, -8.2148, -8.2118, ..., 13.3894, 13.3916, 13.3923],
10472
            grad_fn=<Unique2Backward0>)
10473 print_dice: 0.5585379004478455, print_iou: 0.38748010993003845
10474 Epoch 29/499: 54%| | 86/160 [13:43<11:47, 9.56s/it]masks_dr unique: tensor([-8.
     0551, -8.0545, -8.0453, ..., 13.3745, 13.3766, 13.3788],
            grad_fn=<Unique2Backward0>)
10475
10476 masks dr unique: tensor([-8.0551, -8.0545, -8.0453, ..., 13.3745, 13.3766, 13.3788],
            grad_fn=<Unique2Backward0>)
                                 | 87/160 [13:53<11:36, 9.55s/it]print_dice: 0.
10478 Epoch 29/499: 54%
     4734170138835907, print iou: 0.3101154863834381
10479 masks_dr unique: tensor([-7.6833, -7.6551, -7.6508, ..., 11.8370, 11.8412, 11.8474],
            grad_fn=<Unique2Backward0>)
10480
10481 masks_dr unique: tensor([-7.6833, -7.6551, -7.6508, ..., 11.8370, 11.8412, 11.8474],
10482
            grad_fn=<Unique2Backward0>)
10483 print_dice: 0.6074278354644775,
                                     print iou: 0.43619129061698914
10484 Epoch 29/499: 55%
                                 | 88/160 [14:03<11:38, 9.70s/it]masks_dr unique: tensor([-7.
     8401, -7.8377, -7.8183, ..., 12.0867, 12.0894, 12.0943],
10485
            grad fn=<Unique2Backward0>)
```

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10486 masks_dr unique: tensor([-7.8401, -7.8377, -7.8183, ..., 12.0867, 12.0894, 12.0943],
10487
            grad fn=<Unique2Backward0>)
10488 print dice: 0.5887438058853149, print iou: 0.41717714071273804
10489 Epoch 29/499: 56% 89/160 [14:12<11:27, 9.68s/it] masks_dr unique: tensor([-7.
     5857, -7.5826, -7.5688, ..., 13.3582, 13.3601, 13.3632],
10490
            grad_fn=<Unique2Backward0>)
10491 masks_dr unique: tensor([-7.5857, -7.5826, -7.5688, ..., 13.3582, 13.3601, 13.3632],
            grad_fn=<Unique2Backward0>)
10493 Epoch 29/499: 56%
                                90/160 [14:22<11:13, 9.62s/it]print_dice: 0.459412544965744
         print iou: 0.29820606112480164
10494 masks_dr unique: tensor([-8.0152, -8.0097, -8.0047, ..., 13.1116, 13.1117, 13.1117],
            grad_fn=<Unique2Backward0>)
10496 masks_dr unique: tensor([-8.0152, -8.0097, -8.0047, ..., 13.1116, 13.1117, 13.1117],
            grad fn=<Unique2Backward0>)
10498 Epoch 29/499: 57%
                                 91/160 [14:31<11:03, 9.61s/it]print_dice: 0.
     44062331318855286, print_iou: 0.2825637459754944
10499 masks_dr unique: tensor([-7.8495, -7.8411, -7.8186, ..., 11.8703, 11.8707, 11.8736],
            grad_fn=<Unique2Backward0>)
10501 masks_dr unique: tensor([-7.8495, -7.8411, -7.8186, ..., 11.8703, 11.8707, 11.8736],
            grad_fn=<Unique2Backward0>)
10503 Epoch 29/499: 57%
                               92/160 [14:41<10:52,
                                                        9.60s/it]print_dice: 0.
     48904088139533997, print_iou: 0.32366254925727844
10504 masks_dr unique: tensor([-7.8516, -7.8431, -7.8206, ..., 11.8707, 11.8709, 11.8740],
10505
            grad_fn=<Unique2Backward0>)
10506 masks_dr unique: tensor([-7.8516, -7.8431, -7.8206, ..., 11.8707, 11.8709, 11.8740],
            grad fn=<Unique2Backward0>)
10507
10508 print_dice: 0.5789276361465454, print_iou: 0.4073878824710846
10509 Epoch 29/499: 58% | 93/160 [14:50<10:40, 9.55s/it]masks_dr unique: tensor([-7.
     8263, -7.8126, -7.8092, ..., 12.7609, 12.7610, 12.7623],
            grad fn=<Unique2Backward0>)
10510
10511 masks_dr unique: tensor([-7.8263, -7.8126, -7.8092, ..., 12.7609, 12.7610, 12.7623],
10512
            grad_fn=<Unique2Backward0>)
10513 print_dice: 0.4161874055862427, print_iou: 0.2627756595611572
10514 Epoch 29/499: 59% 94/160 [15:00<10:28, 9.53s/it] masks_dr unique: tensor([-7.
     8527, -7.8443, -7.8219, ..., 11.8730, 11.8738, 11.8765],
10515
            grad_fn=<Unique2Backward0>)
10516 masks_dr unique: tensor([-7.8527, -7.8443, -7.8219, ..., 11.8730, 11.8738, 11.8765],
            grad_fn=<Unique2Backward0>)
10517
10518 Epoch 29/499: 59% | 95/160 [15:09<10:17, 9.49s/it]print_dice: 0.
     5874630212783813, print iou: 0.4158921539783478
10519 masks_dr unique: tensor([-7.4740, -7.4739, -7.4720, ..., 12.7790, 12.7798, 12.7828],
10520
            grad_fn=<Unique2Backward0>)
10521 masks_dr unique: tensor([-7.4740, -7.4739, -7.4720, ..., 12.7790, 12.7798, 12.7828],
            grad_fn=<Unique2Backward0>)
                                 96/160 [15:19<10:05, 9.45s/it]print_dice: 0.
10523 Epoch 29/499: 60%
     48711228370666504, print_iou: 0.3219751715660095
10524 masks_dr unique: tensor([-8.1761, -8.1693, -8.1625, ..., 12.5018, 12.5029, 12.5036],
            grad_fn=<Unique2Backward0>)
10525
10526 masks_dr unique: tensor([-8.1761, -8.1693, -8.1625, ..., 12.5018, 12.5029, 12.5036],
10527
            grad_fn=<Unique2Backward0>)
10528 Epoch 29/499: 61% | 10528 | 97/160 [15:28<09:58,
                                                        9.51s/it]print_dice: 0.
     44715484976768494, print_iou: 0.28795841336250305
10529 masks_dr unique: tensor([-7.7311, -7.7097, -7.7009, ..., 12.7513, 12.7549, 12.7585],
            grad_fn=<Unique2Backward0>)
10530
10531 masks_dr unique: tensor([-7.7311, -7.7097, -7.7009, ..., 12.7513, 12.7549, 12.7585],
            grad_fn=<Unique2Backward0>)
10532
10533 print_dice: 0.5733854174613953,
                                    print_iou: 0.401920348405838
                         98/160 [15:38<09:49, 9.50s/it]masks dr unique: tensor([-7.
10534 Epoch 29/499: 61%||
     8548, -7.8464, -7.8240, ..., 11.8715, 11.8719, 11.8749],
10535
            grad_fn=<Unique2Backward0>)
10536 masks_dr unique: tensor([-7.8548, -7.8464, -7.8240, ..., 11.8715, 11.8719, 11.8749],
            grad fn=<Unique2Backward0>)
10537
10538 print_dice: 0.5286172032356262,
                                     print_iou: 0.3592655658721924
10539 Epoch 29/499: 62% 99/160 [15:47<09:39, 9.50s/it]masks_dr unique: tensor([-7.
     5210, -7.5166, -7.5025, ..., 11.5851, 11.5912, 11.5965],
10540
            grad_fn=<Unique2Backward0>)
10541 masks_dr unique: tensor([-7.5210, -7.5166, -7.5025, ..., 11.5851, 11.5912, 11.5965],
10542
            grad_fn=<Unique2Backward0>)
10543 print dice: 0.5383754372596741,
                                     print_iou: 0.368340402841568
```

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10544 Epoch 29/499: 62% 100/160 [15:56<09:24, 9.41s/it] masks dr unique: tensor([-7.
     8564, -7.8480, -7.8256, ..., 11.8716, 11.8725, 11.8752],
            grad fn=<Unique2Backward0>)
10546 masks_dr unique: tensor([-7.8564, -7.8480, -7.8256, ..., 11.8716, 11.8725, 11.8752],
            grad_fn=<Unique2Backward0>)
10548 print dice: 0.5121116042137146,
                                     print_iou: 0.34418684244155884
10549
       [100/160] eta: 0:09:34
                                time: 9.5417 data: 0.0003
10550 Epoch 29/499: 63% | 101/160 [16:06<09:18, 9.46s/it]masks_dr unique: tensor([-7.
     8569, -7.8486, -7.8262, ..., 11.8695, 11.8700, 11.8729],
10551
            grad fn=<Unique2Backward0>)
10552 masks_dr unique: tensor([-7.8569, -7.8486, -7.8262, ..., 11.8695, 11.8700, 11.8729],
10553
            grad_fn=<Unique2Backward0>)
5420545339584351, print iou: 0.3717934489250183
10555 masks_dr unique: tensor([-7.8564, -7.8481, -7.8258, ..., 11.8714, 11.8718, 11.8748],
            grad_fn=<Unique2Backward0>)
10557 masks_dr unique: tensor([-7.8564, -7.8481, -7.8258, ..., 11.8714, 11.8718, 11.8748],
10558
            grad fn=<Unique2Backward0>)
10559 print_dice: 0.5289472341537476, print_iou: 0.35957053303718567
10560 Epoch 29/499: 64% | 103/160 [16:25<09:06, 9.58s/it]masks_dr unique: tensor([-8.
     0918, -8.0766, -8.0757, ..., 13.2985, 13.3010, 13.3013],
            grad_fn=<Unique2Backward0>)
10561
10562 masks_dr unique: tensor([-8.0918, -8.0766, -8.0757, ..., 13.2985, 13.3010, 13.3013],
            grad fn=<Unique2Backward0>)
10563
10564 print dice: 0.46304386854171753, print iou: 0.30127331614494324
10565 Epoch 29/499: 65% | 104/160 [16:35<08:53, 9.53s/it] masks_dr unique: tensor([-7.
     6890, -7.6817, -7.6744, ..., 12.9986, 12.9988, 12.9997],
            grad fn=<Unique2Backward0>)
10566
10567 masks dr unique: tensor([-7.6890, -7.6817, -7.6744, ..., 12.9986, 12.9988, 12.9997],
            grad fn=<Unique2Backward0>)
10568
10569 print_dice: 0.6456050872802734, print_iou: 0.4766741693019867
10570 Epoch 29/499: 66% | 105/160 [16:44<08:42, 9.50s/it]masks_dr unique: tensor([-7.
     8989, -7.8896, -7.8825, ..., 13.2228, 13.2233, 13.2242],
            grad fn=<Unique2Backward0>)
10571
10572 masks_dr unique: tensor([-7.8989, -7.8896, -7.8825, ..., 13.2228, 13.2233, 13.2242],
            grad_fn=<Unique2Backward0>)
10574 Epoch 29/499: 66%
                                | 106/160 [16:54<08:34, 9.52s/it]print_dice: 0.54603511095047
         print_iou: 0.3755490481853485
10575 masks_dr unique: tensor([-7.8567, -7.8484, -7.8262, ..., 11.8733, 11.8737, 11.8767],
            grad_fn=<Unique2Backward0>)
10576
10577 masks_dr unique: tensor([-7.8567, -7.8484, -7.8262, ..., 11.8733, 11.8737, 11.8767],
            grad_fn=<Unique2Backward0>)
10579 print_dice: 0.4827234745025635, print_iou: 0.3181512951850891
10580 Epoch 29/499: 67% | 107/160 [17:03<08:27, 9.57s/it] masks_dr unique: tensor([-7.
     8598, -7.8515, -7.8293, ..., 11.8757, 11.8769, 11.8794],
10581
            grad_fn=<Unique2Backward0>)
10582 masks_dr unique: tensor([-7.8598, -7.8515, -7.8293, ..., 11.8757, 11.8769, 11.8794],
            grad_fn=<Unique2Backward0>)
10583
10584 print_dice: 0.5902258157730103, print_iou: 0.41866692900657654
10585 Epoch 29/499: 68% | | 108/160 [17:13<08:16, 9.54s/it]masks_dr unique: tensor([-7.
     8608, -7.8526, -7.8304, ..., 11.8760, 11.8770, 11.8796],
10586
            grad_fn=<Unique2Backward0>)
10587 masks_dr unique: tensor([-7.8608, -7.8526, -7.8304, ..., 11.8760, 11.8770, 11.8796],
10588
            grad_fn=<Unique2Backward0>)
10589 Epoch 29/499: 68% | 109/160 [17:22<08:07, 9.56s/it]print_dice: 0.
     6158391237258911, print_iou: 0.44491875171661377
10590 masks_dr unique: tensor([-7.9363, -7.9342, -7.9201, ..., 13.4024, 13.4044, 13.4063],
            grad_fn=<Unique2Backward0>)
10591
10592 masks_dr unique: tensor([-7.9363, -7.9342, -7.9201, ..., 13.4024, 13.4044, 13.4063],
10593
            grad_fn=<Unique2Backward0>)
10594 Epoch 29/499: 69% | 110/160 [17:32<07:56, 9.53s/it]print_dice: 0.
                       print_iou: 0.3475411832332611
     5158153176307678,
10595 masks_dr unique: tensor([-7.8289, -7.8167, -7.8117, ..., 12.1731, 12.1782, 12.1839],
            grad fn=<Unique2Backward0>)
10597 masks_dr unique: tensor([-7.8289, -7.8167, -7.8117, ..., 12.1731, 12.1782, 12.1839],
            grad fn=<Unique2Backward0>)
10598
10599 Epoch 29/499: 69%| | 111/160 [17:41<07:46, 9.52s/it]print_dice: 0.
     49919456243515015, print_iou: 0.33261775970458984
10600 masks_dr unique: tensor([-7.8624, -7.8599, -7.8556, ..., 12.0771, 12.0831, 12.0890],
```

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10601
            grad fn=<Unique2Backward0>)
10602 masks_dr unique: tensor([-7.8624, -7.8599, -7.8556, ..., 12.0771, 12.0831, 12.0890],
            grad fn=<Unique2Backward0>)
10604 print_dice: 0.5056324601173401,
                                      print iou: 0.3383588492870331
10605 Epoch 29/499: 70% | 112/160 [17:51<07:38, 9.56s/it]masks_dr unique: tensor([-7.
     7019, -7.6999, -7.6866, ..., 13.3843, 13.3853, 13.3885],
            grad fn=<Unique2Backward0>)
10606
10607 masks_dr unique: tensor([-7.7019, -7.6999, -7.6866, ..., 13.3843, 13.3853, 13.3885],
            grad_fn=<Unique2Backward0>)
10609 Epoch 29/499: 71%
                                | 113/160 [18:01<07:29, 9.57s/it]print dice: 0.
     583627462387085,
                       print iou: 0.41205787658691406
10610 masks_dr unique: tensor([-7.8614, -7.8531, -7.8309, ..., 11.8834, 11.8837, 11.8868],
            grad_fn=<Unique2Backward0>)
10611
10612 masks dr unique: tensor([-7.8614, -7.8531, -7.8309, ..., 11.8834, 11.8837, 11.8868],
            grad fn=<Unique2Backward0>)
10613
10614 print_dice: 0.5603585839271545, print_iou: 0.38923484086990356
10615 Epoch 29/499: 71%| | 114/160 [18:10<07:19, 9.55s/it]masks_dr unique: tensor([-7.
     8450, -7.8319, -7.8260, ..., 13.0939, 13.0953, 13.0958],
10616
            grad_fn=<Unique2Backward0>)
10617 masks_dr unique: tensor([-7.8450, -7.8319, -7.8260, ..., 13.0939, 13.0953, 13.0958],
            grad_fn=<Unique2Backward0>)
10618
10619 Epoch 29/499: 72%
                                 | 115/160 [18:20<07:09, 9.54s/it]print_dice: 0.
     5341042280197144, print_iou: 0.3643534779548645
10620 masks_dr unique: tensor([-7.5996, -7.5963, -7.5797, ..., 11.9965, 12.0038, 12.0084],
            grad fn=<Unique2Backward0>)
10621
10622 masks_dr unique: tensor([-7.5996, -7.5963, -7.5797, ..., 11.9965, 12.0038, 12.0084],
            grad fn=<Unique2Backward0>)
10623
10624 Epoch 29/499: 72% | 116/160 [18:29<06:59, 9.54s/it]print_dice: 0.
     5664592981338501, print_iou: 0.39514702558517456
10625 masks_dr unique: tensor([-7.8270, -7.8263, -7.8186, ..., 12.8881, 12.8894, 12.8896],
            grad fn=<Unique2Backward0>)
10627 masks_dr unique: tensor([-7.8270, -7.8263, -7.8186, ..., 12.8881, 12.8894, 12.8896],
            grad fn=<Unique2Backward0>)
10629 print_dice: 0.45080944895744324, print_iou: 0.2909967601299286
10630 Epoch 29/499: 73% 73% 1 117/160 [18:39<06:51, 9.56s/it]masks_dr unique: tensor([-8.
     0661, -8.0654, -8.0571, ..., 13.2990, 13.3003, 13.3009],
            grad fn=<Unique2Backward0>)
10631
10632 masks_dr unique: tensor([-8.0661, -8.0654, -8.0571, ..., 13.2990, 13.3003, 13.3009],
            grad_fn=<Unique2Backward0>)
10633
10634 print dice: 0.5849940776824951,
                                      print iou: 0.4134216606616974
10635 Epoch 29/499: 74% | 118/160 [18:48<06:41, 9.56s/it]masks dr unique: tensor([-7.
     8635, -7.8551, -7.8328, ..., 11.8842, 11.8844, 11.8875],
10636
            grad_fn=<Unique2Backward0>)
10637 masks_dr unique: tensor([-7.8635, -7.8551, -7.8328, ..., 11.8842, 11.8844, 11.8875],
10638
            grad_fn=<Unique2Backward0>)
10639 Epoch 29/499: 74%| | 119/160 [18:58<06:29, 9.51s/it]print_dice: 0.
     5312271118164062, print_iou: 0.36168089509010315
10640 masks_dr unique: tensor([-7.5613, -7.5563, -7.5513, ..., 13.0464, 13.0472, 13.0473],
            grad fn=<Unique2Backward0>)
10641
10642 masks_dr unique: tensor([-7.5613, -7.5563, -7.5513, ..., 13.0464, 13.0472, 13.0473],
10643
            grad_fn=<Unique2Backward0>)
10644 print_dice: 0.5156755447387695, print_iou: 0.3474142849445343
10645 Epoch 29/499: 75% | 120/160 [19:07<06:22, 9.56s/it]masks_dr unique: tensor([-7.
     8666, -7.8581, -7.8356, ..., 11.8887, 11.8888, 11.8920],
            grad_fn=<Unique2Backward0>)
10647 masks_dr unique: tensor([-7.8666, -7.8581, -7.8356, ..., 11.8887, 11.8888, 11.8920],
            grad_fn=<Unique2Backward0>)
10648
10649 Epoch 29/499: 76%
                                 | 121/160 [19:17<06:13, 9.57s/it]print_dice: 0.
     5907638669013977,
                        print_iou: 0.4192085564136505
10650 masks_dr unique: tensor([-7.6171, -7.6161, -7.6085, ..., 13.3103, 13.3110, 13.3111],
            grad fn=<Unique2Backward0>)
10651
10652 masks_dr unique: tensor([-7.6171, -7.6161, -7.6085, ..., 13.3103, 13.3110, 13.3111],
            grad fn=<Unique2Backward0>)
10653
10654 print dice: 0.6174646615982056,
                                     print_iou: 0.44661763310432434
10655 Epoch 29/499: 76% | 122/160 [19:27<06:03, 9.56s/it]masks_dr unique: tensor([-7.
     9145, -7.9039, -7.8950, ..., 13.1414, 13.1419, 13.1432],
10656
            grad fn=<Unique2Backward0>)
10657 masks_dr unique: tensor([-7.9145, -7.9039, -7.8950, ..., 13.1414, 13.1419, 13.1432],
            grad_fn=<Unique2Backward0>)
10658
```

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10659 print dice: 0.5828022956848145, print iou: 0.4112356901168823
10660 Epoch 29/499: 77% | 123/160 [19:36<05:53, 9.56s/it]masks_dr unique: tensor([-7.
     9580, -7.9578, -7.9328, ..., 12.3669, 12.3719, 12.3784],
10661
            grad fn=<Unique2Backward0>)
10662 masks_dr unique: tensor([-7.9580, -7.9578, -7.9328, ..., 12.3669, 12.3719, 12.3784],
            grad_fn=<Unique2Backward0>)
10664 Epoch 29/499: 78% | 124/160 [19:46<05:44, 9.57s/it]print dice: 0.
     5170512795448303, print_iou: 0.3486643135547638
10665 masks_dr unique: tensor([-7.8689, -7.8603, -7.8376, ..., 11.8890, 11.8894, 11.8924],
            grad fn=<Unique2Backward0>)
10666
10667 masks dr unique: tensor([-7.8689, -7.8603, -7.8376, ..., 11.8890, 11.8894, 11.8924],
            grad fn=<Unique2Backward0>)
10668
10669 Epoch 29/499: 78% | 125/160 [19:55<05:35, 9.60s/it]print_dice: 0.
     5297208428382874, print iou: 0.3602858781814575
10670 masks_dr unique: tensor([-7.9509, -7.9371, -7.9336, ..., 13.2418, 13.2442, 13.2445],
            grad_fn=<Unique2Backward0>)
10672 masks_dr unique: tensor([-7.9509, -7.9371, -7.9336, ..., 13.2418, 13.2442, 13.2445],
            grad_fn=<Unique2Backward0>)
10673
10674 Epoch 29/499: 79% | 126/160 [20:05<05:25, 9.57s/it]print_dice: 0.
     5414026975631714, print_iou: 0.37118038535118103
10675 masks_dr unique: tensor([-7.8658, -7.8572, -7.8345, ..., 11.8889, 11.8890, 11.8922],
            grad_fn=<Unique2Backward0>)
10677 masks_dr unique: tensor([-7.8658, -7.8572, -7.8345, ..., 11.8889, 11.8890, 11.8922],
            grad fn=<Unique2Backward0>)
10678
10679 print_dice: 0.4908410310745239, print_iou: 0.32524144649505615
10680 Epoch 29/499: 79% | 127/160 [20:14<05:15, 9.56s/it] masks_dr unique: tensor([-7.
     9383, -7.9276, -7.9238, ..., 12.5470, 12.5517, 12.5578],
            grad fn=<Unique2Backward0>)
10681
10682 masks_dr unique: tensor([-7.9383, -7.9276, -7.9238, ..., 12.5470, 12.5517, 12.5578],
10683
            grad fn=<Unique2Backward0>)
10684 Epoch 29/499: 80% | 128/160 [20:24<05:06, 9.58s/it]print_dice: 0.
     5000094771385193, print_iou: 0.3333417475223541
10685 masks_dr unique: tensor([-7.8666, -7.8579, -7.8352, ..., 11.8909, 11.8910, 11.8941],
10686
            grad fn=<Unique2Backward0>)
10687 masks_dr unique: tensor([-7.8666, -7.8579, -7.8352, ..., 11.8909, 11.8910, 11.8941],
            grad_fn=<Unique2Backward0>)
10689 print_dice: 0.4805268347263336, print_iou: 0.3162456750869751
10690 Epoch 29/499: 81% | 129/160 [20:33<04:54, 9.51s/it]masks_dr unique: tensor([-7.
     8684, -7.8597, -7.8369, ..., 11.8953, 11.8954, 11.8986],
            grad fn=<Unique2Backward0>)
10691
10692 masks_dr unique: tensor([-7.8684, -7.8597, -7.8369, ..., 11.8953, 11.8954, 11.8986],
            grad_fn=<Unique2Backward0>)
10694 print_dice: 0.5186583399772644, print_iou: 0.3501274287700653
10695 Epoch 29/499: 81% | 130/160 [20:43<04:46, 9.55s/it]masks_dr unique: tensor([-7.
     8683, -7.8596, -7.8368, ..., 11.8960, 11.8962, 11.8993],
10696
            grad_fn=<Unique2Backward0>)
10697 masks_dr unique: tensor([-7.8683, -7.8596, -7.8368, ..., 11.8960, 11.8962, 11.8993],
            grad_fn=<Unique2Backward0>)
10698
10699 Epoch 29/499: 82%| | 131/160 [20:53<04:36, 9.55s/it]print_dice: 0.
     5502380728721619, print_iou: 0.37953683733940125
10700 masks_dr unique: tensor([-7.9581, -7.9472, -7.9363, ..., 13.3754, 13.3768, 13.3769],
            grad fn=<Unique2Backward0>)
10701
10702 masks_dr unique: tensor([-7.9581, -7.9472, -7.9363, ..., 13.3754, 13.3768, 13.3769],
10703
            grad fn=<Unique2Backward0>)
10704 Epoch 29/499: 82%| | 132/160 [21:02<04:27, 9.56s/it]print_dice: 0.
     5514025092124939, print_iou: 0.380645751953125
10705 masks_dr unique: tensor([-8.1677, -8.1615, -8.1436, ..., 12.4744, 12.4763, 12.4798],
            grad_fn=<Unique2Backward0>)
10706
10707 masks_dr unique: tensor([-8.1677, -8.1615, -8.1436, ..., 12.4744, 12.4763, 12.4798],
10708
            grad_fn=<Unique2Backward0>)
10709 print dice: 0.5393097400665283, print iou: 0.3692156672477722
10710 Epoch 29/499: 83% | 133/160 [21:12<04:18, 9.58s/it]masks_dr unique: tensor([-8.
     0140, -8.0036, -8.0026, ..., 12.2529, 12.2583, 12.2641],
            grad fn=<Unique2Backward0>)
10711
10712 masks dr unique: tensor([-8.0140, -8.0036, -8.0026, ..., 12.2529, 12.2583, 12.2641],
            grad fn=<Unique2Backward0>)
10713
                                      print_iou: 0.38960888981819153
10714 print dice: 0.5607460737228394,
10715 Epoch 29/499: 84% | 134/160 [21:21<04:09, 9.60s/it]masks_dr unique: tensor([-7.
     8680, -7.8593, -7.8365, ..., 11.8989, 11.8995, 11.9024],
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grad fn=<Unique2Backward0>)
10716
10717 masks_dr unique: tensor([-7.8680, -7.8593, -7.8365, ..., 11.8989, 11.8995, 11.9024],
            grad fn=<Unique2Backward0>)
10719 Epoch 29/499: 84%| | 135/160 [21:31<04:01, 9.65s/it]print_dice: 0.
     5643167495727539, print_iou: 0.3930649161338806
10720 masks_dr unique: tensor([-7.9593, -7.9524, -7.9487, ..., 12.8440, 12.8451, 12.8452],
            grad fn=<Unique2Backward0>)
10722 masks_dr unique: tensor([-7.9593, -7.9524, -7.9487, ..., 12.8440, 12.8451, 12.8452],
            grad_fn=<Unique2Backward0>)
10723
10724 Epoch 29/499: 85% | 85% | 136/160 [21:41<03:51, 9.64s/it]print_dice: 0.
                       print_iou: 0.42007625102996826
     591624915599823,
10725 masks_dr unique: tensor([-7.8676, -7.8588, -7.8360, ..., 11.8979, 11.8986, 11.9014],
            grad_fn=<Unique2Backward0>)
10726
10727 masks_dr unique: tensor([-7.8676, -7.8588, -7.8360, ..., 11.8979, 11.8986, 11.9014],
            grad_fn=<Unique2Backward0>)
10728
10729 Epoch 29/499: 86% | 86% | 137/160 [21:50<03:40, 9.58s/it]print_dice: 0.
     5676260590553284, print_iou: 0.39628344774246216
10730 masks_dr unique: tensor([-7.5039, -7.4980, -7.4875, ..., 11.6641, 11.6679, 11.6720],
10731
            grad_fn=<Unique2Backward0>)
10732 masks_dr unique: tensor([-7.5039, -7.4980, -7.4875, ..., 11.6641, 11.6679, 11.6720],
10733
            grad fn=<Unique2Backward0>)
10734 print_dice: 0.507255494594574, print_iou: 0.3398139774799347
10735 Epoch 29/499: 86% | 10735 Epoch 29/499: 86% | 138/160 [22:00<03:29, 9.52s/it]masks_dr unique: tensor([-7.
     8668, -7.8579, -7.8350, ..., 11.9016, 11.9018, 11.9050],
            grad_fn=<Unique2Backward0>)
10736
10737 masks_dr unique: tensor([-7.8668, -7.8579, -7.8350, ..., 11.9016, 11.9018, 11.9050],
            grad fn=<Unique2Backward0>)
10739 print dice: 0.5616742372512817, print iou: 0.3905055820941925
10740 Epoch 29/499: 87% | 139/160 [22:09<03:20, 9.56s/it]masks_dr unique: tensor([-7.
     7070, -7.6933, -7.6816, ..., 12.0735, 12.0737, 12.0790],
            grad_fn=<Unique2Backward0>)
10741
10742 masks_dr unique: tensor([-7.7070, -7.6933, -7.6816, ..., 12.0735, 12.0737, 12.0790],
            grad_fn=<Unique2Backward0>)
10744 Epoch 29/499: 88%| | | 140/160 [22:19<03:11, 9.58s/it]print_dice: 0.
     5313021540641785, print iou: 0.3617504835128784
10745 masks_dr unique: tensor([-7.8664, -7.8575, -7.8345, ..., 11.9018, 11.9026, 11.9054],
10746
            grad_fn=<Unique2Backward0>)
10747 masks_dr unique: tensor([-7.8664, -7.8575, -7.8345, ..., 11.9018, 11.9026, 11.9054],
            grad_fn=<Unique2Backward0>)
10748
10749 Epoch 29/499: 88% | 88% | 141/160 [22:28<03:01, 9.57s/it]print dice: 0.
     5254557132720947, print_iou: 0.35635125637054443
10750 masks_dr unique: tensor([-8.1383, -8.1276, -8.1183, ..., 13.1130, 13.1136, 13.1150],
            grad_fn=<Unique2Backward0>)
10751
10752 masks_dr unique: tensor([-8.1383, -8.1276, -8.1183, ..., 13.1130, 13.1136, 13.1150],
10753
            grad_fn=<Unique2Backward0>)
10754 print_dice: 0.5524082183837891, print_iou: 0.38160496950149536
10755 Epoch 29/499: 89% | 10755 Epoch 29/499: 89% | 142/160 [22:38<02:52, 9.57s/it]masks_dr unique: tensor([-7.
     8707, -7.8617, -7.8387, ..., 11.9013, 11.9020, 11.9048],
            grad fn=<Unique2Backward0>)
10756
10757 masks_dr unique: tensor([-7.8707, -7.8617, -7.8387, ..., 11.9013, 11.9020, 11.9048],
10758
            grad_fn=<Unique2Backward0>)
10759 Epoch 29/499: 89%| | 143/160 [22:48<02:43, 9.62s/it]print_dice: 0.
     619082510471344, print_iou: 0.4483124911785126
10760 masks_dr unique: tensor([-7.7804, -7.7568, -7.7542, ..., 12.4893, 12.4930, 12.4994],
            grad_fn=<Unique2Backward0>)
10762 masks_dr unique: tensor([-7.7804, -7.7568, -7.7542, ..., 12.4893, 12.4930, 12.4994],
            grad fn=<Unique2Backward0>)
10763
10764 print_dice: 0.4711647629737854,
                                       print iou: 0.3081854581832886
10765 Epoch 29/499: 90%
                                | | 144/160 [22:57<02:32, 9.56s/it]masks_dr unique: tensor([-7.
     9367, -7.9293, -7.9117, ..., 13.2855, 13.2878, 13.2880],
10766
            grad fn=<Unique2Backward0>)
10767 masks_dr unique: tensor([-7.9367, -7.9293, -7.9117, ..., 13.2855, 13.2878, 13.2880],
            grad fn=<Unique2Backward0>)
10768
10769 Epoch 29/499: 91% | 145/160 [23:07<02:23, 9.57s/it]print_dice: 0.
     4934910535812378, print_iou: 0.32757261395454407
10770 masks_dr unique: tensor([-7.8682, -7.8591, -7.8360, ..., 11.9047, 11.9055, 11.9083],
            grad fn=<Unique2Backward0>)
10771
10772 masks_dr unique: tensor([-7.8682, -7.8591, -7.8360, ..., 11.9047, 11.9055, 11.9083],
10773
            grad fn=<Unique2Backward0>)
```

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10774 print dice: 0.547928512096405, print iou: 0.37734267115592957
10775 Epoch 29/499: 91% | 146/160 [23:16<02:14, 9.58s/it]masks_dr unique: tensor([-7.
     5239, -7.5167, -7.5041, ..., 12.1799, 12.1873, 12.1914],
            grad fn=<Unique2Backward0>)
10776
10777 masks_dr unique: tensor([-7.5239, -7.5167, -7.5041, ..., 12.1799, 12.1873, 12.1914],
            grad_fn=<Unique2Backward0>)
10779 print_dice: 0.4867127537727356, print_iou: 0.3216261565685272
10780 Epoch 29/499: 92%| 10780 | 147/160 [23:26<02:04, 9.55s/it]masks_dr unique: tensor([-8.
     0504, -8.0501, -8.0235, ..., 12.2397, 12.2452, 12.2508],
10781
            grad fn=<Unique2Backward0>)
10782 masks_dr unique: tensor([-8.0504, -8.0501, -8.0235, ..., 12.2397, 12.2452, 12.2508],
10783
            grad_fn=<Unique2Backward0>)
10784 Epoch 29/499: 92% | 148/160 [23:35<01:54, 9.51s/it]print_dice: 0.
     5386729836463928, print iou: 0.36861902475357056
10785 masks_dr unique: tensor([-7.7502, -7.7456, -7.7286, ..., 12.3522, 12.3524, 12.3541],
            grad_fn=<Unique2Backward0>)
10787 masks_dr unique: tensor([-7.7502, -7.7456, -7.7286, ..., 12.3522, 12.3524, 12.3541],
            grad_fn=<Unique2Backward0>)
10788
10789 Epoch 29/499: 93% | 149/160 [23:45<01:44, 9.54s/it]print_dice: 0.
     5450019836425781, print_iou: 0.3745723366737366
10790 masks_dr unique: tensor([-7.9013, -7.8872, -7.8815, ..., 11.7793, 11.7857, 11.7898],
            grad_fn=<Unique2Backward0>)
10792 masks_dr unique: tensor([-7.9013, -7.8872, -7.8815, ..., 11.7793, 11.7857, 11.7898],
            grad fn=<Unique2Backward0>)
10793
10794 Epoch 29/499: 94% | 150/160 [23:55<01:35, 9.55s/it]print dice: 0.
     4653806984424591, print_iou: 0.3032548129558563
10795 masks dr unique: tensor([-7.6101, -7.5975, -7.5971, ..., 12.4056, 12.4125, 12.4186],
            grad fn=<Unique2Backward0>)
10796
10797 masks_dr unique: tensor([-7.6101, -7.5975, -7.5971, ..., 12.4056, 12.4125, 12.4186],
            grad fn=<Unique2Backward0>)
10798
10799 print_dice: 0.5560828447341919, print iou: 0.3851209878921509
5939, -7.5892, -7.5855, ..., 11.8511, 11.8573, 11.8625],
10801
            grad_fn=<Unique2Backward0>)
10802 masks_dr unique: tensor([-7.5939, -7.5892, -7.5855, ..., 11.8511, 11.8573, 11.8625],
            grad_fn=<Unique2Backward0>)
10804 Epoch 29/499: 95% | 152/160 [24:13<01:15, 9.46s/it]print dice: 0.
     47319671511650085, print_iou: 0.30992645025253296
10805 masks_dr unique: tensor([-8.4232, -8.4137, -8.4098, ..., 13.6345, 13.6355, 13.6402],
            grad fn=<Unique2Backward0>)
10806
10807 masks_dr unique: tensor([-8.4232, -8.4137, -8.4098, ..., 13.6345, 13.6355, 13.6402],
            grad_fn=<Unique2Backward0>)
10808
10809 Epoch 29/499: 96%| | 153/160 [24:23<01:06, 9.50s/it]print_dice: 0.
     4633713364601135, print_iou: 0.30155062675476074
10810 masks_dr unique: tensor([-7.5340, -7.5158, -7.5128, ..., 11.8550, 11.8618, 11.8669],
10811
            grad_fn=<Unique2Backward0>)
10812 masks_dr unique: tensor([-7.5340, -7.5158, -7.5128, ..., 11.8550, 11.8618, 11.8669],
            grad_fn=<Unique2Backward0>)
10813
10814 print_dice: 0.47264209389686584, print_iou: 0.30945077538490295
10815 Epoch 29/499: 96% 96% 154/160 [24:33<00:57, 9.55s/it] masks dr unique: tensor([-7.
     8695, -7.8604, -7.8372, ..., 11.9107, 11.9108, 11.9140],
            grad fn=<Unique2Backward0>)
10816
10817 masks_dr unique: tensor([-7.8695, -7.8604, -7.8372, ..., 11.9107, 11.9108, 11.9140],
10818
            grad fn=<Unique2Backward0>)
10819 Epoch 29/499: 97% | 155/160 [24:42<00:47, 9.52s/it]print_dice: 0.
     5938220620155334, print_iou: 0.42229509353637695
10820 masks_dr unique: tensor([-7.5153, -7.5150, -7.5021, ..., 12.9257, 12.9266, 12.9268],
            grad fn=<Unique2Backward0>)
10821
10822 masks_dr unique: tensor([-7.5153, -7.5150, -7.5021, ..., 12.9257, 12.9266, 12.9268],
            grad fn=<Unique2Backward0>)
10823
10824 Epoch 29/499: 98% | 156/160 [24:51<00:37, 9.49s/it]print_dice: 0.
                       print_iou: 0.30449944734573364
     4668448865413666,
10825 masks_dr unique: tensor([-7.9077, -7.8980, -7.8978, ..., 12.6624, 12.6709, 12.6745],
10826
            grad fn=<Unique2Backward0>)
10827 masks_dr unique: tensor([-7.9077, -7.8980, -7.8978, ..., 12.6624, 12.6709, 12.6745],
            grad fn=<Unique2Backward0>)
10828
10829 Epoch 29/499: 98%
                                157/160 [25:01<00:28, 9.52s/it]print_dice: 0.
     599104642868042,
                       print iou: 0.4276583790779114
10830 masks_dr unique: tensor([-7.8547, -7.8497, -7.8475, ..., 13.3387, 13.3394, 13.3399],
```

```
10831
            grad fn=<Unique2Backward0>)
10832 masks_dr unique: tensor([-7.8547, -7.8497, -7.8475, ..., 13.3387, 13.3394, 13.3399],
            grad_fn=<Unique2Backward0>)
10834 Epoch 29/499: 99% | 158/160 [25:11<00:19, 9.54s/it]print_dice: 0.
     43611305952072144, print iou: 0.2788648307323456
10835 masks_dr unique: tensor([-7.8708, -7.8617, -7.8386, ..., 11.9106, 11.9106, 11.9139],
            grad fn=<Unique2Backward0>)
10836
10837 masks_dr unique: tensor([-7.8708, -7.8617, -7.8386, ..., 11.9106, 11.9106, 11.9139],
            grad_fn=<Unique2Backward0>)
10838
10839 print dice: 0.5100662112236023, print iou: 0.3423415422439575
10840 Epoch 29/499: 99%| 10840 159/160 [25:20<00:09, 9.55s/it]masks_dr unique: tensor([-8.
     0498, -8.0379, -8.0364, ..., 13.4850, 13.4866, 13.4871],
10841
            grad_fn=<Unique2Backward0>)
10842 masks dr unique: tensor([-8.0498, -8.0379, -8.0364, ..., 13.4850, 13.4866, 13.4871],
10843
            grad fn=<Unique2Backward0>)
10844 print_dice: 0.5077152252197266, print_iou: 0.34022679924964905
10845
       [159/160] eta: 0:00:09 time: 9.5338 data: 0.0004
10846 Epoch 29/499: 100% | 100% | 160/160 [25:30<00:00, 9.57s/it]
10847 Total time: 0:25:30 (9.5675 s / it)
10848 Averaged stats: training_loss: -235.4322 (-235.4322) loss_mask: -235.5922 (-235.5922)
     loss_dice: 0.1599 (0.1599)
10849 Net parameter norm: 1054.4257171165664
10850 Validating...
10851 Valid dataloader len: 12
                    | 0/12 [00:00<?, ?it/s]masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique
10852
      sigmoid values: tensor([2.9457e-04, 3.0387e-04, 3.1055e-04, ..., 9.9999e-01, 9.9999e-01,
10853
             9.9999e-01], grad fn=<Unique2Backward0>)
10854 masks dr unique: tensor([4.1970e-04, 4.2336e-04, 4.3505e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
10855
10856 print_dice: 0.5598191022872925, print_iou: 0.38871443271636963
                              time: 10.4697 data: 4.7818
       [ 0/12] eta: 0:02:05
                    | 1/12 [00:10<01:55, 10.47s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
10858
     ]) unique sigmoid values: tensor([2.9417e-04, 3.0366e-04, 3.0974e-04, ..., 9.9999e-01, 9.
     9999e-01,
10859
             9.9999e-01], grad_fn=<Unique2Backward0>)
10860 masks_dr unique: tensor([4.1972e-04, 4.2336e-04, 4.3500e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
10861
10862 print_dice: 0.6133316159248352, print_iou: 0.44230592250823975
                   | 2/12 [00:16<01:17, 7.79s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
10863 17%
     ]) unique sigmoid values: tensor([3.1283e-04, 3.1505e-04, 3.3788e-04, ..., 9.9999e-01, 9.
     9999e-01,
10864
             9.9999e-01], grad_fn=<Unique2Backward0>)
10865 masks_dr unique: tensor([5.3109e-04, 5.4119e-04, 5.4664e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
10867 print_dice: 0.536588728427887, print_iou: 0.36666980385780334
                   | 3/12 [00:22<01:01, 6.82s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([4.5066e-04, 5.3303e-04, 5.5716e-04, ..., 1.0000e+00, 1.
     0000e+00,
10869
             1.0000e+00], grad_fn=<Unique2Backward0>)
10870 masks_dr unique: tensor([6.0263e-04, 6.1464e-04, 6.2665e-04, ..., 9.9999e-01, 9.9999e-01,
10871
             9.9999e-01], grad_fn=<Unique2Backward0>)
10872 33%
                    4/12 [00:28<00:52, 6.59s/it]print_dice: 0.5177859663963318, print_iou: 0
      .3493327796459198
10873 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.8978e-04, 3
      .0394e-04, 3.2129e-04, ..., 1.0000e+00, 1.0000e+00,
10874
             1.0000e+00], grad_fn=<Unique2Backward0>)
10875 masks_dr unique: tensor([5.4645e-04, 5.4839e-04, 5.5034e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad fn=<Unique2Backward0>)
10876
10877 print dice: 0.5829015374183655, print iou: 0.4113345146179199
                    | 5/12 [00:34<00:44, 6.31s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
10878 42%
     ]) unique sigmoid values: tensor([2.9006e-04, 3.3191e-04, 3.4299e-04, ..., 1.0000e+00, 1.
     0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
10879
10880 masks_dr unique: tensor([4.6116e-04, 4.6453e-04, 4.7489e-04, ..., 1.0000e+00, 1.0000e+00,
10881
             1.0000e+00], grad_fn=<Unique2Backward0>)
10882 print dice: 0.5080522298812866, print iou: 0.34052950143814087
                    10883 50%
     ]) unique sigmoid values: tensor([3.1361e-04, 3.3557e-04, 3.7650e-04, ..., 9.9999e-01, 9.
     9999e-01,
```

```
9.9999e-01], grad fn=<Unique2Backward0>)
10884
10885 masks_dr unique: tensor([5.0918e-04, 5.1725e-04, 5.3503e-04, ..., 9.9999e-01, 9.9999e-01,
                   9.9999e-01], grad fn=<Unique2Backward0>)
10887 print_dice: 0.4380165934562683, print_iou: 0.2804233431816101
                           ]) unique sigmoid values: tensor([2.9446e-04, 3.0414e-04, 3.0984e-04, ..., 9.9999e-01, 9.
        9999e-01,
                   9.9999e-01], grad_fn=<Unique2Backward0>)
10889
10890 masks_dr unique: tensor([4.1987e-04, 4.2346e-04, 4.3505e-04, ..., 9.9999e-01, 9.9999e-01,
10891
                   9.9999e-01], grad fn=<Unique2Backward0>)
                            | 8/12 [00:51<00:24, 6.01s/it]print_dice: 0.5476513504981995, print iou: 0
10892 67%
         .3770798146724701
10893 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([1.8704e-04, 1
        .8954e-04, 2.1940e-04, ..., 9.9999e-01, 1.0000e+00,
                   1.0000e+00], grad fn=<Unique2Backward0>)
10894
10895 masks_dr unique: tensor([3.4955e-04, 3.5061e-04, 3.6287e-04, ..., 9.9999e-01, 9.9999e-01,
                   9.9999e-01], grad_fn=<Unique2Backward0>)
10897 75%
                            | 9/12 [00:58<00:18, 6.08s/it]print_dice: 0.5717967748641968, print_iou: 0
         .40036094188690186
10898 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.2675e-04, 3
        .5802e-04, 3.6838e-04, ..., 9.9999e-01, 9.9999e-01,
                   9.9999e-01], grad_fn=<Unique2Backward0>)
10899
10900 masks_dr unique: tensor([5.6287e-04, 5.6426e-04, 5.6936e-04, ..., 9.9999e-01, 9.9999e-01,
10901
                   9.9999e-01], grad_fn=<Unique2Backward0>)
10902 83% | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000
        0.41386133432388306
10903 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.9393e-04, 3
        .4752e-04, 3.5819e-04, ..., 1.0000e+00, 1.0000e+00,
10904
                   1.0000e+00], grad_fn=<Unique2Backward0>)
10905 masks dr unique: tensor([5.0006e-04, 5.0073e-04, 5.0856e-04, ..., 1.0000e+00, 1.0000e+00,
                   1.0000e+00], grad_fn=<Unique2Backward0>)
10907 print_dice: 0.6180840730667114, print_iou: 0.44726601243019104
                    ]) unique sigmoid values: tensor([1.8117e-04, 2.2451e-04, 2.4357e-04, ..., 1.0000e+00, 1.
        0000e+00,
10909
                   1.0000e+00], grad_fn=<Unique2Backward0>)
10910 masks_dr unique: tensor([3.9601e-04, 3.9809e-04, 3.9947e-04, ..., 1.0000e+00, 1.0000e+00,
                   1.0000e+00], grad_fn=<Unique2Backward0>)
10912 print_dice: 0.5848863124847412, print_iou: 0.41331401467323303
           [11/12] eta: 0:00:06
                                              time: 6.2369 data: 0.3987
10913
10914 100%
                    12/12 [01:15<00:00, 6.27s/it]
10915 Total time: 0:01:15 (6.2693 s / it)
10916 =============
10917 Averaged stats:
10918 epoch:
                             learning rate:
                                                     1e-07
                      30
10919 Epoch 30/499:
                              0%|
                                               | 0/160 [00:00<?, ?it/s]masks_dr unique: tensor([-7.8724, -7.
        8633, -7.8403, ..., 11.9111, 11.9113, 11.9145],
                  grad_fn=<Unique2Backward0>)
10920
10921 masks_dr unique: tensor([-7.8724, -7.8633, -7.8403, ..., 11.9111, 11.9113, 11.9145],
                  grad fn=<Unique2Backward0>)
10923 print_dice: 0.5364363193511963,
                                                        print_iou: 0.3665274977684021
10924
           [ 0/160] eta: 0:37:04
                                                 time: 13.9026 data: 4.2906
10925 Epoch 30/499:
                              1%|
                                                 | 1/160 [00:13<36:50, 13.90s/it]masks_dr unique: tensor([-7.
        8729, -7.8639, -7.8408, ..., 11.9107, 11.9110, 11.9141],
                  grad_fn=<Unique2Backward0>)
10927 masks_dr unique: tensor([-7.8729, -7.8639, -7.8408, ..., 11.9107, 11.9110, 11.9141],
                  grad_fn=<Unique2Backward0>)
10928
                                                        print iou: 0.3582289218902588
10929 print_dice: 0.5274941921234131,
10930 Epoch 30/499:
                               1%||
                                                 | 2/160 [00:23<29:58, 11.38s/it]masks_dr unique: tensor([-7.
        6120, -7.6000, -7.5898, ..., 11.9740, 11.9761, 11.9820],
10931
                  grad_fn=<Unique2Backward0>)
10932 masks dr unique: tensor([-7.6120, -7.6000, -7.5898, ..., 11.9740, 11.9761, 11.9820],
                  grad fn=<Unique2Backward0>)
10933
10934 Epoch 30/499:
                               2%||
                                                  3/160 [00:32<27:18, 10.43s/it]print_dice: 0.6106345057487488
              print_iou: 0.43950605392456055
10935 masks_dr unique: tensor([-7.8719, -7.8629, -7.8398, ..., 11.9111, 11.9112, 11.9144],
10936
                  grad fn=<Unique2Backward0>)
10937 masks_dr unique: tensor([-7.8719, -7.8629, -7.8398, ..., 11.9111, 11.9112, 11.9144],
                  grad fn=<Unique2Backward0>)
10938
```

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10939 print dice: 0.46787917613983154, print iou: 0.30538007616996765
                             | 4/160 [00:42<26:07, 10.05s/it]masks_dr unique: tensor([-7.
10940 Epoch 30/499:
                     2%|
     5586, -7.5566, -7.5437, ..., 13.3252, 13.3266, 13.3311],
10941
            grad fn=<Unique2Backward0>)
10942 masks dr unique: tensor([-7.5586, -7.5566, -7.5437, ..., 13.3252, 13.3266, 13.3311],
            grad_fn=<Unique2Backward0>)
10944 Epoch 30/499:
                     3%||
                                  | 5/160 [00:52<25:42, 9.95s/it]print_dice: 0.
     48823535442352295, print_iou: 0.32295724749565125
10945 masks_dr unique: tensor([-7.8739, -7.8649, -7.8418, ..., 11.9090, 11.9099, 11.9127],
            grad fn=<Unique2Backward0>)
10947 masks_dr unique: tensor([-7.8739, -7.8649, -7.8418, ..., 11.9090, 11.9099, 11.9127],
            grad fn=<Unique2Backward0>)
10948
                     4%|
                                  6/160 [01:01<25:16, 9.85s/it]print_dice: 0.548439085483551
10949 Epoch 30/499:
         print iou: 0.37782710790634155
10950 masks_dr unique: tensor([-8.0260, -8.0139, -8.0130, ..., 13.4527, 13.4532, 13.4535],
            grad fn=<Unique2Backward0>)
10952 masks_dr unique: tensor([-8.0260, -8.0139, -8.0130, ..., 13.4527, 13.4532, 13.4535],
            grad fn=<Unique2Backward0>)
10954 print_dice: 0.5126941800117493, print_iou: 0.34471336007118225
10955 Epoch 30/499: 4%|■
                           | 7/160 [01:11<24:49, 9.73s/it]masks_dr unique: tensor([-7.
     8745, -7.8654, -7.8424, ..., 11.9113, 11.9115, 11.9147],
            grad_fn=<Unique2Backward0>)
10956
10957 masks_dr unique: tensor([-7.8745, -7.8654, -7.8424, ..., 11.9113, 11.9115, 11.9147],
            grad fn=<Unique2Backward0>)
10958
10959 Epoch 30/499:
                     5%||
                                  8/160 [01:20<24:33, 9.70s/it]print_dice: 0.4905637800693512
         print_iou: 0.32499802112579346
10960 masks dr unique: tensor([-7.9833, -7.9706, -7.9580, ..., 12.8699, 12.8709, 12.8712],
            grad fn=<Unique2Backward0>)
10961
10962 masks dr unique: tensor([-7.9833, -7.9706, -7.9580, ..., 12.8699, 12.8709, 12.8712],
            grad fn=<Unique2Backward0>)
10963
10964 print_dice: 0.4978823959827423, print_iou: 0.3314536511898041
                          | 9/160 [01:30<24:21, 9.68s/it]masks_dr unique: tensor([-7.
10965 Epoch 30/499: 6%|■
     8527, -7.8451, -7.8374, ..., 13.2074, 13.2082, 13.2087],
            grad fn=<Unique2Backward0>)
10966
10967 masks_dr unique: tensor([-7.8527, -7.8451, -7.8374, ..., 13.2074, 13.2082, 13.2087],
            grad_fn=<Unique2Backward0>)
10969 Epoch 30/499:
                     6%
                                  | 10/160 [01:39<24:02, 9.62s/it]print_dice: 0.
     5036072731018066, print_iou: 0.33654749393463135
10970 masks_dr unique: tensor([-8.0474, -8.0349, -8.0251, ..., 12.5441, 12.5443, 12.5453],
            grad fn=<Unique2Backward0>)
10971
10972 masks_dr unique: tensor([-8.0474, -8.0349, -8.0251, ..., 12.5441, 12.5443, 12.5453],
            grad_fn=<Unique2Backward0>)
10973
10974 Epoch 30/499:
                     7%|
                                 | 11/160 [01:49<23:50, 9.60s/it]print_dice: 0.
     48927977681159973, print_iou: 0.3238718807697296
10975 masks_dr unique: tensor([-7.9368, -7.9249, -7.9148, ..., 12.2740, 12.2752, 12.2755],
10976
            grad_fn=<Unique2Backward0>)
10977 masks_dr unique: tensor([-7.9368, -7.9249, -7.9148, ..., 12.2740, 12.2752, 12.2755],
            grad_fn=<Unique2Backward0>)
10978
10979 Epoch 30/499:
                     8%
                                  | 12/160 [01:59<23:38, 9.59s/it]print_dice: 0.519711971282959
         print iou: 0.35108843445777893
10980 masks dr unique: tensor([-7.7348, -7.7300, -7.7283, ..., 12.1894, 12.1941, 12.1991],
10981
            grad_fn=<Unique2Backward0>)
10982 masks_dr unique: tensor([-7.7348, -7.7300, -7.7283, ..., 12.1894, 12.1941, 12.1991],
10983
            grad fn=<Unique2Backward0>)
10984 Epoch 30/499: 8% ■
                             | 13/160 [02:08<23:40, 9.66s/it]print_dice: 0.
     6176507472991943, print_iou: 0.44681236147880554
10985 masks dr unique: tensor([-7.8763, -7.8673, -7.8443, ..., 11.9121, 11.9122, 11.9154],
            grad_fn=<Unique2Backward0>)
10986
10987 masks_dr unique: tensor([-7.8763, -7.8673, -7.8443, ..., 11.9121, 11.9122, 11.9154],
10988
            grad_fn=<Unique2Backward0>)
10989 Epoch 30/499:
                     9%
                                  | 14/160 [02:18<23:22, 9.61s/it]print_dice: 0.
     5308011174201965,
                         print_iou: 0.36128610372543335
10990 masks_dr unique: tensor([-8.1451, -8.1418, -8.1271, ..., 12.7218, 12.7219, 12.7224],
            grad fn=<Unique2Backward0>)
10992 masks_dr unique: tensor([-8.1451, -8.1418, -8.1271, ..., 12.7218, 12.7219, 12.7224],
10993
            grad_fn=<Unique2Backward0>)
10994 print dice: 0.5096045732498169,
                                       print_iou: 0.3419257402420044
                                  | 15/160 [02:27<23:03, 9.54s/it]masks_dr unique: tensor([-7.
10995 Epoch 30/499:
                     9%
     8796, -7.8705, -7.8476, ..., 11.9110, 11.9118, 11.9146],
```

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10996
            grad fn=<Unique2Backward0>)
10997 masks dr unique: tensor([-7.8796, -7.8705, -7.8476, ..., 11.9110, 11.9118, 11.9146],
            grad fn=<Unique2Backward0>)
10999 print_dice: 0.5800822377204895,
                                      print iou: 0.4085322916507721
                                | 16/160 [02:37<22:48, 9.51s/it]masks_dr unique: tensor([-7.
11000 Epoch 30/499: 10%
     5852, -7.5807, -7.5761, ..., 13.0788, 13.0792, 13.0794],
            grad fn=<Unique2Backward0>)
11001
11002 masks_dr unique: tensor([-7.5852, -7.5807, -7.5761, ..., 13.0788, 13.0792, 13.0794],
            grad_fn=<Unique2Backward0>)
11003
11004 Epoch 30/499: 11%
                                 | 17/160 [02:46<22:30, 9.45s/it]print dice: 0.
     5173217058181763, print_iou: 0.34891027212142944
11005 masks_dr unique: tensor([-7.8769, -7.8680, -7.8453, ..., 11.9106, 11.9106, 11.9139],
            grad_fn=<Unique2Backward0>)
11006
11007 masks_dr unique: tensor([-7.8769, -7.8680, -7.8453, ..., 11.9106, 11.9106, 11.9139],
            grad fn=<Unique2Backward0>)
11008
11009 Epoch 30/499: 11%|■
                                 | 18/160 [02:55<22:21, 9.45s/it]print_dice: 0.
     4603842794895172, print_iou: 0.29902544617652893
11010 masks_dr unique: tensor([-7.8799, -7.8709, -7.8480, ..., 11.9097, 11.9107, 11.9134],
11011
            grad_fn=<Unique2Backward0>)
11012 masks_dr unique: tensor([-7.8799, -7.8709, -7.8480, ..., 11.9097, 11.9107, 11.9134],
            grad_fn=<Unique2Backward0>)
11013
11014 print_dice: 0.5822263360023499, print_iou: 0.41066238284111023
0058, -7.9933, -7.9862, ..., 13.2366, 13.2366, 13.2376],
11016
            grad_fn=<Unique2Backward0>)
11017 masks_dr unique: tensor([-8.0058, -7.9933, -7.9862, ..., 13.2366, 13.2366, 13.2376],
            grad fn=<Unique2Backward0>)
11018
11019 Epoch 30/499: 12%
                                20/160 [03:15<22:08,
                                                        9.49s/it|print dice: 0.
     47696658968925476, print_iou: 0.31316882371902466
11020 masks dr unique: tensor([-8.2919, -8.2888, -8.2741, ..., 12.9039, 12.9040, 12.9044],
            grad_fn=<Unique2Backward0>)
11022 masks_dr unique: tensor([-8.2919, -8.2888, -8.2741, ..., 12.9039, 12.9040, 12.9044],
            grad_fn=<Unique2Backward0>)
11024 Epoch 30/499: 13%
                                 21/160 [03:24<22:01, 9.51s/it]print_dice: 0.524039089679718
         print_iou: 0.3550494313240051
11025 masks_dr unique: tensor([-8.2333, -8.2169, -8.2144, ..., 13.3027, 13.3048, 13.3050],
            grad_fn=<Unique2Backward0>)
11026
11027 masks_dr unique: tensor([-8.2333, -8.2169, -8.2144, ..., 13.3027, 13.3048, 13.3050],
            grad_fn=<Unique2Backward0>)
11028
                                 | 22/160 [03:34<21:56, 9.54s/it]print_dice: 0.
11029 Epoch 30/499: 14%
     5356464385986328, print_iou: 0.36579033732414246
11030 masks_dr unique: tensor([-7.9263, -7.9221, -7.9137, ..., 12.2266, 12.2304, 12.2330],
            grad_fn=<Unique2Backward0>)
11031
11032 masks_dr unique: tensor([-7.9263, -7.9221, -7.9137, ..., 12.2266, 12.2304, 12.2330],
11033
            grad_fn=<Unique2Backward0>)
11034 Epoch 30/499: 14%
                                 23/160 [03:44<22:01, 9.64s/it]print_dice: 0.
     6125542521476746, print_iou: 0.441497802734375
11035 masks_dr unique: tensor([-7.4275, -7.4212, -7.4021, ..., 11.8222, 11.8301, 11.8350],
11036
            grad_fn=<Unique2Backward0>)
11037 masks_dr unique: tensor([-7.4275, -7.4212, -7.4021, ..., 11.8222, 11.8301, 11.8350],
11038
            grad_fn=<Unique2Backward0>)
11039 Epoch 30/499: 15%
                                 24/160 [03:53<21:45, 9.60s/it]print dice: 0.
     5479320883750916, print_iou: 0.3773460388183594
11040 masks_dr unique: tensor([-7.6746, -7.6693, -7.6535, ..., 12.4471, 12.4471, 12.4472],
            grad_fn=<Unique2Backward0>)
11042 masks_dr unique: tensor([-7.6746, -7.6693, -7.6535, ..., 12.4471, 12.4471, 12.4472],
11043
            grad_fn=<Unique2Backward0>)
                                      print iou: 0.41221603751182556
11044 print_dice: 0.5837860703468323,
11045 Epoch 30/499: 16%
                                 | 25/160 [04:03<21:39, 9.63s/it]masks_dr unique: tensor([-8.
     0258, -8.0147, -8.0037, ..., 13.4851, 13.4859, 13.4861],
            grad_fn=<Unique2Backward0>)
11046
11047 masks_dr unique: tensor([-8.0258, -8.0147, -8.0037, ..., 13.4851, 13.4859, 13.4861],
            grad_fn=<Unique2Backward0>)
11048
                                     print_iou: 0.4142882227897644
11049 print dice: 0.585861086845398,
11050 Epoch 30/499: 16%
                                 26/160 [04:12<21:24, 9.59s/it]masks_dr unique: tensor([-7.
     7674, -7.7481, -7.7463, ..., 12.3427, 12.3447, 12.3474],
11051
            grad fn=<Unique2Backward0>)
11052 masks dr unique: tensor([-7.7674, -7.7481, -7.7463, ..., 12.3427, 12.3447, 12.3474],
            grad fn=<Unique2Backward0>)
11053
```

```
11054 Epoch 30/499: 17%
                            27/160 [04:22<21:11, 9.56s/it]print dice: 0.
      5645226836204529, print_iou: 0.3932647705078125
11055 masks dr unique: tensor([-7.6600, -7.6510, -7.6451, ..., 12.7930, 12.7933, 12.7943],
            grad fn=<Unique2Backward0>)
11056
11057 masks_dr unique: tensor([-7.6600, -7.6510, -7.6451, ..., 12.7930, 12.7933, 12.7943],
            grad_fn=<Unique2Backward0>)
11058
11059 Epoch 30/499: 18%
                                 | 28/160 [04:31<20:59, 9.54s/it]print_dice: 0.
     4350348114967346, print_iou: 0.277983695268631
11060 masks_dr unique: tensor([-7.8839, -7.8750, -7.8522, ..., 11.9144, 11.9144, 11.9177],
            grad fn=<Unique2Backward0>)
11061
11062 masks_dr unique: tensor([-7.8839, -7.8750, -7.8522, ..., 11.9144, 11.9144, 11.9177],
            grad fn=<Unique2Backward0>)
11063
                                29/160 [04:41<20:48, 9.53s/it]print dice: 0.59736567735672
11064 Epoch 30/499: 18%
         print iou: 0.42588838934898376
11065 masks_dr unique: tensor([-7.7981, -7.7951, -7.7864, ..., 12.2140, 12.2162, 12.2171],
            grad_fn=<Unique2Backward0>)
11067 masks dr unique: tensor([-7.7981, -7.7951, -7.7864, ..., 12.2140, 12.2162, 12.2171],
            grad_fn=<Unique2Backward0>)
11068
11069 Epoch 30/499: 19%
                                  | 30/160 [04:50<20:34, 9.50s/it]print_dice: 0.
     6036831140518188, print_iou: 0.4323396384716034
11070 masks_dr unique: tensor([-7.8843, -7.8754, -7.8527, ..., 11.9126, 11.9130, 11.9160],
            grad_fn=<Unique2Backward0>)
11072 masks_dr unique: tensor([-7.8843, -7.8754, -7.8527, ..., 11.9126, 11.9130, 11.9160],
11073
            grad fn=<Unique2Backward0>)
11074 Epoch 30/499: 19%
                                  | 31/160 [05:00<20:32, 9.55s/it]print dice: 0.507612943649292
         print_iou: 0.3401349186897278
11075 masks dr unique: tensor([-7.5694, -7.5495, -7.5388, ..., 12.1039, 12.1115, 12.1169],
            grad fn=<Unique2Backward0>)
11077 masks_dr unique: tensor([-7.5694, -7.5495, -7.5388, ..., 12.1039, 12.1115, 12.1169],
            grad fn=<Unique2Backward0>)
11078
                                 | 32/160 [05:10<20:27, 9.59s/it]print dice: 0.
11079 Epoch 30/499: 20%
      47772735357284546, print_iou: 0.3138251006603241
11080 masks_dr unique: tensor([-7.8852, -7.8764, -7.8537, ..., 11.9127, 11.9138, 11.9164],
11081
            grad_fn=<Unique2Backward0>)
11082 masks_dr unique: tensor([-7.8852, -7.8764, -7.8537, ..., 11.9127, 11.9138, 11.9164],
            grad_fn=<Unique2Backward0>)
11084 print_dice: 0.5540379881858826, print_iou: 0.38316217064857483
11085 Epoch 30/499: 21% ■ | 33/160 [05:19<20:24, 9.64s/it] masks_dr unique: tensor([-8.
      0957, -8.0950, -8.0863, ..., 13.2972, 13.2980, 13.2991],
            grad fn=<Unique2Backward0>)
11086
11087 masks_dr unique: tensor([-8.0957, -8.0950, -8.0863, ..., 13.2972, 13.2980, 13.2991],
            grad_fn=<Unique2Backward0>)
11089 print_dice: 0.5453198552131653, print_iou: 0.37487268447875977
                                 | 34/160 [05:29<20:04, 9.56s/it]masks_dr unique: tensor([-7.
11090 Epoch 30/499: 21%
     8856, -7.8768, -7.8542, ..., 11.9135, 11.9136, 11.9168],
11091
            grad_fn=<Unique2Backward0>)
11092 masks_dr unique: tensor([-7.8856, -7.8768, -7.8542, ..., 11.9135, 11.9136, 11.9168],
            grad_fn=<Unique2Backward0>)
11093
11094 Epoch 30/499: 22%
                                  | 35/160 [05:38<19:50, 9.53s/it]print_dice: 0.
      48326054215431213, print_iou: 0.3186180293560028
11095 masks_dr unique: tensor([-8.2540, -8.2371, -8.2227, ..., 12.8710, 12.8799, 12.8830],
11096
            grad_fn=<Unique2Backward0>)
11097 masks_dr unique: tensor([-8.2540, -8.2371, -8.2227, ..., 12.8710, 12.8799, 12.8830],
            grad_fn=<Unique2Backward0>)
11098
11099 Epoch 30/499: 22% | 36/160 [05:47<19:28, 9.43s/it]print_dice: 0.
      5511682629585266, print_iou: 0.38042256236076355
11100 masks_dr unique: tensor([-7.8862, -7.8774, -7.8547, ..., 11.9146, 11.9155, 11.9182],
            grad_fn=<Unique2Backward0>)
11101
11102 masks_dr unique: tensor([-7.8862, -7.8774, -7.8547, ..., 11.9146, 11.9155, 11.9182],
11103
            grad_fn=<Unique2Backward0>)
11104 Epoch 30/499: 23%
                                  37/160 [05:57<19:21,
                                                         9.44s/it]print_dice: 0.
      5921832323074341,
                         print_iou: 0.42063942551612854
11105 masks_dr unique: tensor([-7.5383, -7.5376, -7.5259,
                                                         ..., 13.3775, 13.3787, 13.3831],
11106
            grad fn=<Unique2Backward0>)
11107 masks dr unique: tensor([-7.5383, -7.5376, -7.5259,
                                                         ..., 13.3775, 13.3787, 13.3831],
            grad fn=<Unique2Backward0>)
11108
11109 Epoch 30/499: 24%
                                  38/160 [06:06<19:16,
                                                         9.48s/it]print_dice: 0.
      5342530012130737,
                       print_iou: 0.3644919693470001
11110 masks_dr unique: tensor([-7.8858, -7.8770, -7.8543, ..., 11.9169, 11.9169, 11.9201],
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grad fn=<Unique2Backward0>)
11111
11112 masks_dr unique: tensor([-7.8858, -7.8770, -7.8543, ..., 11.9169, 11.9169, 11.9201],
            grad fn=<Unique2Backward0>)
                                    print_iou: 0.39558151364326477
11114 print_dice: 0.5669056177139282,
11115 Epoch 30/499: 24%
     8110, -7.8022, -7.7984, ..., 13.2250, 13.2282, 13.2316],
            grad_fn=<Unique2Backward0>)
11116
11117 masks_dr unique: tensor([-7.8110, -7.8022, -7.7984, ..., 13.2250, 13.2282, 13.2316],
            grad_fn=<Unique2Backward0>)
11118
11119 print dice: 0.4895522892475128, print iou: 0.3241107165813446
11120 Epoch 30/499: 25%| | 40/160 [06:25<18:54, 9.46s/it]masks_dr unique: tensor([-7.5156, -7.5053, -7.4998, ..., 11.7144, 11.7197, 11.7237],
            grad_fn=<Unique2Backward0>)
11121
11122 masks dr unique: tensor([-7.5156, -7.5053, -7.4998, ..., 11.7144, 11.7197, 11.7237],
            grad fn=<Unique2Backward0>)
11123
11124 Epoch 30/499: 26%
                                 41/160 [06:35<18:49, 9.49s/it]print_dice: 0.605818510055542
         print_iou: 0.4345334470272064
11125 masks_dr unique: tensor([-7.5892, -7.5765, -7.5707, ..., 12.2463, 12.2524, 12.2585],
            grad_fn=<Unique2Backward0>)
11127 masks_dr unique: tensor([-7.5892, -7.5765, -7.5707, ..., 12.2463, 12.2524, 12.2585],
11128
            grad_fn=<Unique2Backward0>)
11129 print_dice: 0.543874204158783, print_iou: 0.37350770831108093
11130 Epoch 30/499: 26% 42/160 [06:45<18:47, 9.55s/it] masks_dr unique: tensor([-7.
     8830, -7.8742, -7.8516, ..., 11.9174, 11.9174, 11.9206],
            grad_fn=<Unique2Backward0>)
11131
11132 masks dr unique: tensor([-7.8830, -7.8742, -7.8516, ..., 11.9174, 11.9174, 11.9206],
11133
            grad fn=<Unique2Backward0>)
11134 Epoch 30/499: 27%
                             | 43/160 [06:54<18:41, 9.59s/it]print dice: 0.
     4554458260536194, print_iou: 0.2948720157146454
11135 masks_dr unique: tensor([-7.8835, -7.8747, -7.8520, ..., 11.9184, 11.9189, 11.9218],
            grad fn=<Unique2Backward0>)
11137 masks_dr unique: tensor([-7.8835, -7.8747, -7.8520, ..., 11.9184, 11.9189, 11.9218],
            grad fn=<Unique2Backward0>)
11139 print_dice: 0.5927013754844666, print_iou: 0.421162486076355
11140 Epoch 30/499: 28% 44/160 [07:04<18:24, 9.52s/it] masks_dr unique: tensor([-7.
     9517, -7.9447, -7.9272, ..., 13.2964, 13.2981, 13.2984],
            grad_fn=<Unique2Backward0>)
11141
11142 masks_dr unique: tensor([-7.9517, -7.9447, -7.9272, ..., 13.2964, 13.2981, 13.2984],
            grad_fn=<Unique2Backward0>)
11144 print dice: 0.4981924295425415, print iou: 0.3317285478115082
                             | 45/160 [07:13<18:14, 9.52s/it]masks_dr unique: tensor([-7.
11145 Epoch 30/499: 28%
     6480, -7.6470, -7.6361, ..., 13.3122, 13.3130, 13.3135],
            grad_fn=<Unique2Backward0>)
11147 masks_dr unique: tensor([-7.6480, -7.6470, -7.6361, ..., 13.3122, 13.3130, 13.3135],
11148
            grad_fn=<Unique2Backward0>)
11149 print_dice: 0.5286731719970703, print_iou: 0.35931727290153503
3932, -7.3860, -7.3815, ..., 11.9683, 11.9720, 11.9744],
11151
            grad_fn=<Unique2Backward0>)
11152 masks_dr unique: tensor([-7.3932, -7.3860, -7.3815, ..., 11.9683, 11.9720, 11.9744],
11153
            grad_fn=<Unique2Backward0>)
11154 print_dice: 0.5187099575996399, print_iou: 0.3501744568347931
11155 Epoch 30/499: 29% 47/160 [07:32<17:58, 9.54s/it] masks_dr unique: tensor([-7.
     3264, -7.3258, -7.3019, ..., 11.5443, 11.5495, 11.5553],
            grad_fn=<Unique2Backward0>)
11157 masks_dr unique: tensor([-7.3264, -7.3258, -7.3019, ..., 11.5443, 11.5495, 11.5553],
            grad_fn=<Unique2Backward0>)
11158
11159 Epoch 30/499: 30%
                                 48/160 [07:42<17:46, 9.53s/it]print_dice: 0.
     5397021770477295,
                        print_iou: 0.3695836663246155
11160 masks_dr unique: tensor([-7.8814, -7.8724, -7.8495, ..., 11.9181, 11.9190, 11.9217],
            grad_fn=<Unique2Backward0>)
11161
11162 masks_dr unique: tensor([-7.8814, -7.8724, -7.8495, ..., 11.9181, 11.9190, 11.9217],
11163
            grad_fn=<Unique2Backward0>)
11164 print dice: 0.45711544156074524,
                                     print iou: 0.29627326130867004
11165 Epoch 30/499: 31%
                                 49/160 [07:51<17:34, 9.50s/it]masks_dr unique: tensor([-7.
     4758, -7.4657, -7.4614, ..., 12.7800, 12.7801, 12.7802],
11166
            grad fn=<Unique2Backward0>)
11167 masks_dr unique: tensor([-7.4758, -7.4657, -7.4614, ..., 12.7800, 12.7801, 12.7802],
            grad fn=<Unique2Backward0>)
11168
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11169 Epoch 30/499: 31%
                                 | 50/160 [08:01<17:27, 9.53s/it]print dice: 0.
     4757801294326782, print_iou: 0.3121466636657715
11170 masks_dr unique: tensor([-7.8835, -7.8745, -7.8515, ..., 11.9194, 11.9194, 11.9226],
11171
            grad fn=<Unique2Backward0>)
11172 masks_dr unique: tensor([-7.8835, -7.8745, -7.8515, ..., 11.9194, 11.9194, 11.9226],
            grad_fn=<Unique2Backward0>)
11173
11174 print_dice: 0.49607330560684204, print_iou: 0.32985204458236694
                             | 51/160 [08:11<17:24, 9.58s/it]masks_dr unique: tensor([-7.
11175 Epoch 30/499: 32%
     3587, -7.3571, -7.3455, ..., 12.1521, 12.1536, 12.1539],
            grad fn=<Unique2Backward0>)
11176
11177 masks dr unique: tensor([-7.3587, -7.3571, -7.3455, ..., 12.1521, 12.1536, 12.1539],
            grad_fn=<Unique2Backward0>)
11178
11179 Epoch 30/499: 32%
                               | 52/160 [08:20<17:15, 9.59s/it]print_dice: 0.
     5189965963363647, print_iou: 0.3504357933998108
11180 masks_dr unique: tensor([-7.6865, -7.6837, -7.6701, ..., 13.3295, 13.3296, 13.3306],
            grad fn=<Unique2Backward0>)
11182 masks_dr unique: tensor([-7.6865, -7.6837, -7.6701, ..., 13.3295, 13.3296, 13.3306],
            grad_fn=<Unique2Backward0>)
11183
11184 Epoch 30/499: 33%
                                  | 53/160 [08:30<17:04, 9.58s/it]print_dice: 0.
     5651418566703796, print_iou: 0.39386600255966187
11185 masks_dr unique: tensor([-8.0241, -8.0168, -8.0016, ..., 13.4161, 13.4165, 13.4203],
11186
            grad_fn=<Unique2Backward0>)
11187 masks dr unique: tensor([-8.0241, -8.0168, -8.0016, ..., 13.4161, 13.4165, 13.4203],
11188
            grad_fn=<Unique2Backward0>)
11189 print_dice: 0.5179337859153748, print_iou: 0.34946733713150024
11190 Epoch 30/499: 34% | 54/160 [08:39<16:52, 9.56s/it] masks_dr unique: tensor([-7.
     9244, -7.9148, -7.9064, ..., 12.4431, 12.4446, 12.4453],
11191
            grad_fn=<Unique2Backward0>)
11192 masks_dr unique: tensor([-7.9244, -7.9148, -7.9064, ..., 12.4431, 12.4446, 12.4453],
            grad fn=<Unique2Backward0>)
11194 print dice: 0.4454546272754669, print iou: 0.28654977679252625
11195 Epoch 30/499: 34% 55/160 [08:49<16:42, 9.55s/it] masks_dr unique: tensor([-8.
     2246, -8.2139, -8.2126, ..., 13.4270, 13.4287, 13.4295],
11196
            grad_fn=<Unique2Backward0>)
11197 masks_dr unique: tensor([-8.2246, -8.2139, -8.2126, ..., 13.4270, 13.4287, 13.4295],
            grad_fn=<Unique2Backward0>)
11199 Epoch 30/499: 35%
                                 56/160 [08:58<16:29, 9.52s/it]print_dice: 0.560077428817749
         print_iou: 0.38896358013153076
11200 masks_dr unique: tensor([-7.5575, -7.5467, -7.5362, ..., 12.3050, 12.3087, 12.3110],
            grad_fn=<Unique2Backward0>)
11201
11202 masks_dr unique: tensor([-7.5575, -7.5467, -7.5362, ..., 12.3050, 12.3087, 12.3110],
            grad_fn=<Unique2Backward0>)
11204 print_dice: 0.5536531209945679, print_iou: 0.3827941417694092
11205 Epoch 30/499: 36% 57/160 [09:08<16:22, 9.54s/it] masks_dr unique: tensor([-7.
     5140, -7.5003, -7.4956, ..., 11.9055, 11.9096, 11.9135],
            grad_fn=<Unique2Backward0>)
11206
11207 masks_dr unique: tensor([-7.5140, -7.5003, -7.4956, ..., 11.9055, 11.9096, 11.9135],
            grad_fn=<Unique2Backward0>)
11208
                                 | 58/160 [09:17<16:16, 9.57s/it]print_dice: 0.
11209 Epoch 30/499: 36%
     5891901850700378, print_iou: 0.4176255166530609
11210 masks_dr unique: tensor([-7.9021, -7.8909, -7.8808, ..., 12.4764, 12.4837, 12.4889],
11211
            grad fn=<Unique2Backward0>)
11212 masks_dr unique: tensor([-7.9021, -7.8909, -7.8808, ..., 12.4764, 12.4837, 12.4889],
            grad_fn=<Unique2Backward0>)
11213
11214 Epoch 30/499: 37% 59/160 [09:27<15:58, 9.49s/it]print_dice: 0.
     5763068199157715, print_iou: 0.4047970771789551
11215 masks dr unique: tensor([-7.8826, -7.8731, -7.8495, ..., 11.9175, 11.9186, 11.9211],
            grad_fn=<Unique2Backward0>)
11216
11217 masks_dr unique: tensor([-7.8826, -7.8731, -7.8495, ..., 11.9175, 11.9186, 11.9211],
            grad fn=<Unique2Backward0>)
11218
11219 print dice: 0.5065401792526245,
                                     print_iou: 0.3391723036766052
11220 Epoch 30/499: 38%
                                 | 60/160 [09:36<15:46, 9.47s/it]masks_dr unique: tensor([-7.
     8015, -7.7877, -7.7806, ..., 12.2033, 12.2058, 12.2112],
11221
            grad_fn=<Unique2Backward0>)
11222 masks_dr unique: tensor([-7.8015, -7.7877, -7.7806, ..., 12.2033, 12.2058, 12.2112],
            grad_fn=<Unique2Backward0>)
11223
11224 print dice: 0.5663434267044067,
                                      print_iou: 0.3950342535972595
11225 Epoch 30/499: 38%
                                  | 61/160 [09:46<15:40, 9.50s/it]masks_dr unique: tensor([-7.
     8263, -7.8216, -7.8054, ..., 13.2659, 13.2675, 13.2679],
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11226
            grad fn=<Unique2Backward0>)
11227 masks_dr unique: tensor([-7.8263, -7.8216, -7.8054, ..., 13.2659, 13.2675, 13.2679],
            grad fn=<Unique2Backward0>)
11229 print_dice: 0.5337402820587158,
                                      print_iou: 0.3640148341655731
11230 Epoch 30/499: 39% 62/160 [09:55<15:26, 9.46s/it] masks_dr unique: tensor([-7.
     8185, -7.8137, -7.7964, ..., 12.3997, 12.4002, 12.4024],
            grad_fn=<Unique2Backward0>)
11231
11232 masks_dr unique: tensor([-7.8185, -7.8137, -7.7964, ..., 12.3997, 12.4002, 12.4024],
            grad_fn=<Unique2Backward0>)
11233
11234 Epoch 30/499: 39%
                                63/160 [10:04<15:16, 9.45s/it]print dice: 0.
     5480309128761292, print_iou: 0.37743979692459106
11235 masks_dr unique: tensor([-7.8855, -7.8758, -7.8523, ..., 11.9231, 11.9239, 11.9266],
            grad_fn=<Unique2Backward0>)
11236
11237 masks_dr unique: tensor([-7.8855, -7.8758, -7.8523, ..., 11.9231, 11.9239, 11.9266],
            grad fn=<Unique2Backward0>)
11238
11239 Epoch 30/499: 40%
                                 | 64/160 [10:14<15:08, 9.47s/it]print_dice: 0.
     6144430637359619, print_iou: 0.4434628486633301
11240 masks_dr unique: tensor([-7.8821, -7.8723, -7.8488, ..., 11.9227, 11.9230, 11.9260],
            grad_fn=<Unique2Backward0>)
11242 masks_dr unique: tensor([-7.8821, -7.8723, -7.8488, ..., 11.9227, 11.9230, 11.9260],
11243
            grad_fn=<Unique2Backward0>)
11244 print_dice: 0.5050837993621826, print_iou: 0.3378676176071167
11245 Epoch 30/499: 41% 65/160 [10:24<15:05, 9.53s/it] masks_dr unique: tensor([-7.
     5076, -7.4962, -7.4853, ..., 11.8859, 11.8919, 11.8974],
            grad_fn=<Unique2Backward0>)
11246
11247 masks dr unique: tensor([-7.5076, -7.4962, -7.4853, ..., 11.8859, 11.8919, 11.8974],
            grad fn=<Unique2Backward0>)
11249 print dice: 0.46188488602638245,
                                       print iou: 0.3002927899360657
11250 Epoch 30/499: 41% 66/160 [10:33<14:51, 9.49s/it] masks_dr unique: tensor([-7.
     5119, -7.5018, -7.4980, ..., 11.6639, 11.6701, 11.6745],
            grad fn=<Unique2Backward0>)
11251
11252 masks_dr unique: tensor([-7.5119, -7.5018, -7.4980, ..., 11.6639, 11.6701, 11.6745],
            grad_fn=<Unique2Backward0>)
11254 print_dice: 0.476873517036438, print_iou: 0.3130885660648346
11255 Epoch 30/499: 42%| | 67/160 [10:43<14:43, 9.50s/it]masks_dr unique: tensor([-8.
     0448, -8.0332, -8.0250, ..., 13.1453, 13.1464, 13.1519],
            grad_fn=<Unique2Backward0>)
11256
11257 masks_dr unique: tensor([-8.0448, -8.0332, -8.0250, ..., 13.1453, 13.1464, 13.1519],
11258
            grad_fn=<Unique2Backward0>)
                                      print_iou: 0.4302483797073364
11259 print dice: 0.6016414761543274,
11260 Epoch 30/499: 42% 68/160 [10:52<14:34, 9.50s/it] masks_dr unique: tensor([-7.
     9067, -7.8929, -7.8904, ..., 12.4700, 12.4707, 12.4729],
            grad_fn=<Unique2Backward0>)
11261
11262 masks_dr unique: tensor([-7.9067, -7.8929, -7.8904, ..., 12.4700, 12.4707, 12.4729],
11263
            grad_fn=<Unique2Backward0>)
11264 Epoch 30/499: 43%
                                69/160 [11:02<14:29, 9.55s/it]print_dice: 0.
     5281862020492554, print_iou: 0.3588675558567047
11265 masks_dr unique: tensor([-7.6578, -7.6570, -7.6552, ..., 13.3367, 13.3383, 13.3418],
11266
            grad_fn=<Unique2Backward0>)
11267 masks_dr unique: tensor([-7.6578, -7.6570, -7.6552, ..., 13.3367, 13.3383, 13.3418],
11268
            grad_fn=<Unique2Backward0>)
11269 Epoch 30/499: 44%
                                 | 70/160 [11:11<14:22, 9.59s/it]print_dice: 0.
     4869672954082489, print iou: 0.32184848189353943
11270 masks_dr unique: tensor([-7.8850, -7.8750, -7.8516, ..., 11.9257, 11.9260, 11.9290],
            grad_fn=<Unique2Backward0>)
11272 masks_dr unique: tensor([-7.8850, -7.8750, -7.8516, ..., 11.9257, 11.9260, 11.9290],
11273
            grad_fn=<Unique2Backward0>)
11274 Epoch 30/499: 44%|
                                 | 71/160 [11:21<14:12, 9.58s/it]print_dice: 0.
     5727116465568542,
                         print_iou: 0.40125855803489685
11275 masks_dr unique: tensor([-7.6735, -7.6669, -7.6648, ..., 12.4881, 12.4944, 12.4998],
            grad_fn=<Unique2Backward0>)
11276
11277 masks dr unique: tensor([-7.6735, -7.6669, -7.6648, \ldots, 12.4881, 12.4944, 12.4998]
            grad fn=<Unique2Backward0>)
11278
11279 print dice: 0.5988367795944214,
                                     print_iou: 0.42738544940948486
11280 Epoch 30/499: 45%
                                 72/160 [11:30<13:55, 9.49s/it]masks_dr unique: tensor([-8.
     0570, -8.0566, -8.0451, ..., 13.4174, 13.4201, 13.4227],
11281
            grad fn=<Unique2Backward0>)
11282 masks_dr unique: tensor([-8.0570, -8.0566, -8.0451, ..., 13.4174, 13.4201, 13.4227],
            grad fn=<Unique2Backward0>)
11283
```

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11284 Epoch 30/499: 46%
                               | 73/160 [11:40<13:46, 9.50s/it]print dice: 0.
     4755875766277313, print_iou: 0.3119809031486511
11285 masks_dr unique: tensor([-7.7021, -7.6893, -7.6766, ..., 11.9946, 12.0014, 12.0060],
11286
            grad fn=<Unique2Backward0>)
11287 masks_dr unique: tensor([-7.7021, -7.6893, -7.6766, ..., 11.9946, 12.0014, 12.0060],
11288
            grad_fn=<Unique2Backward0>)
11289 Epoch 30/499: 46%
                                 | 74/160 [11:49<13:39, 9.53s/it]print_dice: 0.
     5490387678146362, print_iou: 0.37839657068252563
11290 masks_dr unique: tensor([-7.4987, -7.4978, -7.4880, ..., 12.9476, 12.9485, 12.9486],
            grad fn=<Unique2Backward0>)
11291
11292 masks_dr unique: tensor([-7.4987, -7.4978, -7.4880, ..., 12.9476, 12.9485, 12.9486],
            grad fn=<Unique2Backward0>)
11293
11294 Epoch 30/499: 47%
                                | 75/160 [11:59<13:31, 9.55s/it]print_dice: 0.
     4698328673839569, print_iou: 0.3070467412471771
11295 masks_dr unique: tensor([-7.4635, -7.4593, -7.4461, ..., 11.9897, 11.9916, 11.9947],
            grad_fn=<Unique2Backward0>)
11297 masks_dr unique: tensor([-7.4635, -7.4593, -7.4461, ..., 11.9897, 11.9916, 11.9947],
            grad_fn=<Unique2Backward0>)
11298
11299 print_dice: 0.622641921043396, print_iou: 0.4520552158355713
11300 Epoch 30/499: 48% 76/160 [12:08<13:20, 9.53s/it] masks_dr unique: tensor([-7.
     7507, -7.7384, -7.7297, ..., 12.6361, 12.6373, 12.6429],
            grad_fn=<Unique2Backward0>)
11301
11302 masks dr unique: tensor([-7.7507, -7.7384, -7.7297, ..., 12.6361, 12.6373, 12.6429],
11303
            grad_fn=<Unique2Backward0>)
11304 Epoch 30/499: 48%
                                77/160 [12:18<13:13, 9.56s/it]print_dice: 0.
     5208339691162109, print_iou: 0.352113276720047
11305 masks_dr unique: tensor([-7.6577, -7.6536, -7.6406, ..., 13.3575, 13.3600, 13.3646],
            grad_fn=<Unique2Backward0>)
11306
11307 masks_dr unique: tensor([-7.6577, -7.6536, -7.6406, ..., 13.3575, 13.3600, 13.3646],
            grad fn=<Unique2Backward0>)
11308
11309 print dice: 0.5623086094856262, print iou: 0.391119122505188
11310 Epoch 30/499: 49% 78/160 [12:28<13:00, 9.52s/it] masks_dr unique: tensor([-7.
     8885, -7.8783, -7.8549, ..., 11.9286, 11.9295, 11.9321],
            grad fn=<Unique2Backward0>)
11311
11312 masks_dr unique: tensor([-7.8885, -7.8783, -7.8549, ..., 11.9286, 11.9295, 11.9321],
            grad_fn=<Unique2Backward0>)
11314 Epoch 30/499: 49%
                                 79/160 [12:37<12:54, 9.56s/it]print_dice: 0.
     5683513879776001, print_iou: 0.3969908356666565
11315 masks_dr unique: tensor([-7.8877, -7.8775, -7.8541, ..., 11.9276, 11.9278, 11.9309],
            grad_fn=<Unique2Backward0>)
11316
11317 masks_dr unique: tensor([-7.8877, -7.8775, -7.8541, ..., 11.9276, 11.9278, 11.9309],
            grad_fn=<Unique2Backward0>)
11319 Epoch 30/499: 50%| | 80/160 [12:47<12:48, 9.61s/it]print_dice: 0.
     5204612016677856, print_iou: 0.35177260637283325
11320 masks_dr unique: tensor([-7.8020, -7.8013, -7.7867, ..., 12.2626, 12.2634, 12.2693],
            grad_fn=<Unique2Backward0>)
11322 masks_dr unique: tensor([-7.8020, -7.8013, -7.7867, ..., 12.2626, 12.2634, 12.2693],
            grad_fn=<Unique2Backward0>)
11323
11324 Epoch 30/499: 51%
                                 81/160 [12:57<12:39, 9.61s/it]print_dice: 0.
     5082882046699524, print iou: 0.3407415449619293
11325 masks_dr unique: tensor([-7.8895, -7.8793, -7.8559, ..., 11.9292, 11.9296, 11.9325],
11326
            grad fn=<Unique2Backward0>)
11327 masks_dr unique: tensor([-7.8895, -7.8793, -7.8559, ..., 11.9292, 11.9296, 11.9325],
            grad_fn=<Unique2Backward0>)
11328
11329 Epoch 30/499: 51% | 82/160 [13:06<12:28, 9.59s/it]print_dice: 0.
     5577549338340759, print_iou: 0.38672685623168945
11330 masks_dr unique: tensor([-7.8894, -7.8791, -7.8558, ..., 11.9294, 11.9300, 11.9328],
            grad_fn=<Unique2Backward0>)
11331
11332 masks_dr unique: tensor([-7.8894, -7.8791, -7.8558, ..., 11.9294, 11.9300, 11.9328],
            grad_fn=<Unique2Backward0>)
11333
11334 Epoch 30/499: 52%
                                  83/160 [13:15<12:13, 9.53s/it]print_dice: 0.
                        print iou: 0.3751187324523926
     5455801486968994,
11335 masks_dr unique: tensor([-7.2426, -7.2373, -7.2229, ..., 11.8313, 11.8317, 11.8400],
11336
            grad fn=<Unique2Backward0>)
11337 masks dr unique: tensor([-7.2426, -7.2373, -7.2229,
                                                        ..., 11.8313, 11.8317, 11.8400],
            grad_fn=<Unique2Backward0>)
11338
11339 Epoch 30/499: 52%
                                  84/160 [13:25<12:05,
                                                         9.55s/it]print dice: 0.
     4172890782356262,
                       print_iou: 0.2636546194553375
11340 masks_dr unique: tensor([-8.0780, -8.0664, -8.0548, ..., 13.1700, 13.1702, 13.1712],
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11341
            grad fn=<Unique2Backward0>)
11342 masks_dr unique: tensor([-8.0780, -8.0664, -8.0548, ..., 13.1700, 13.1702, 13.1712],
            grad_fn=<Unique2Backward0>)
11344 Epoch 30/499: 53%
                                 | 85/160 [13:35<11:59, 9.59s/it]print dice: 0.
     5284252762794495, print_iou: 0.35908833146095276
11345 masks_dr unique: tensor([-7.8894, -7.8790, -7.8558, ..., 11.9313, 11.9315, 11.9345],
            grad fn=<Unique2Backward0>)
11347 masks_dr unique: tensor([-7.8894, -7.8790, -7.8558, ..., 11.9313, 11.9315, 11.9345],
            grad_fn=<Unique2Backward0>)
11348
11349 Epoch 30/499: 54%
                                 86/160 [13:44<11:51, 9.62s/it]print dice: 0.
     6126267313957214, print_iou: 0.4415730834007263
11350 masks dr unique: tensor([-7.8866, -7.8761, -7.8530, ..., 11.9272, 11.9278, 11.9305],
11351
            grad_fn=<Unique2Backward0>)
11352 masks_dr unique: tensor([-7.8866, -7.8761, -7.8530, ..., 11.9272, 11.9278, 11.9305],
            grad_fn=<Unique2Backward0>)
11353
11354 Epoch 30/499: 54%
                                 | 87/160 [13:54<11:39, 9.58s/it]print_dice: 0.
     4274052083492279, print_iou: 0.27178341150283813
11355 masks_dr unique: tensor([-7.8873, -7.8767, -7.8536, ..., 11.9323, 11.9325, 11.9355],
            grad_fn=<Unique2Backward0>)
11357 masks_dr unique: tensor([-7.8873, -7.8767, -7.8536, ..., 11.9323, 11.9325, 11.9355],
            grad_fn=<Unique2Backward0>)
11358
11359 print_dice: 0.5650133490562439, print_iou: 0.3937411606311798
11360 Epoch 30/499: 55% 88/160 [14:04<11:33, 9.63s/it]masks_dr unique: tensor([-7.
     8917, -7.8782, -7.8730, ..., 13.1934, 13.1947, 13.1947],
            grad_fn=<Unique2Backward0>)
11361
11362 masks_dr unique: tensor([-7.8917, -7.8782, -7.8730, ..., 13.1934, 13.1947, 13.1947],
            grad fn=<Unique2Backward0>)
11363
11364 print dice: 0.5487264394760132, print iou: 0.3780999481678009
11365 Epoch 30/499: 56% 89/160 [14:13<11:21, 9.61s/it] masks_dr unique: tensor([-7.
     6601, -7.6518, -7.6435, ..., 13.0276, 13.0279, 13.0285],
            grad fn=<Unique2Backward0>)
11366
11367 masks_dr unique: tensor([-7.6601, -7.6518, -7.6435, ..., 13.0276, 13.0279, 13.0285],
            grad_fn=<Unique2Backward0>)
11369 Epoch 30/499: 56%
                                90/160 [14:23<11:11, 9.60s/it]print_dice: 0.
     6480045318603516, print_iou: 0.47929489612579346
11370 masks_dr unique: tensor([-7.8895, -7.8787, -7.8557, ..., 11.9296, 11.9300, 11.9329],
11371
            grad_fn=<Unique2Backward0>)
11372 masks_dr unique: tensor([-7.8895, -7.8787, -7.8557, ..., 11.9296, 11.9300, 11.9329],
            grad_fn=<Unique2Backward0>)
11373
                                | 91/160 [14:32<10:58, 9.55s/it]print_dice: 0.
11374 Epoch 30/499: 57%
     5521080493927002,
                       print_iou: 0.3813185393810272
11375 masks_dr unique: tensor([-7.4679, -7.4588, -7.4551, ..., 11.9236, 11.9296, 11.9332],
            grad_fn=<Unique2Backward0>)
11376
11377 masks_dr unique: tensor([-7.4679, -7.4588, -7.4551, ..., 11.9236, 11.9296, 11.9332],
            grad_fn=<Unique2Backward0>)
11378
11379 Epoch 30/499: 57%| | 92/160 [14:42<10:50, 9.56s/it]print_dice: 0.
     5425688624382019, print_iou: 0.37227752804756165
11380 masks_dr unique: tensor([-7.3815, -7.3776, -7.3596, ..., 11.9814, 11.9847, 11.9878],
            grad fn=<Unique2Backward0>)
11381
11382 masks_dr unique: tensor([-7.3815, -7.3776, -7.3596, ..., 11.9814, 11.9847, 11.9878],
            grad fn=<Unique2Backward0>)
11383
11384 print_dice: 0.5666059851646423, print_iou: 0.39528974890708923
11385 Epoch 30/499: 58% 93/160 [14:51<10:40, 9.56s/it]masks_dr unique: tensor([-7.
     7210, -7.7157, -7.7017, ..., 13.4059, 13.4087, 13.4119],
            grad_fn=<Unique2Backward0>)
11387 masks_dr unique: tensor([-7.7210, -7.7157, -7.7017, ..., 13.4059, 13.4087, 13.4119],
            grad fn=<Unique2Backward0>)
11388
11389 Epoch 30/499: 59%
                                 | 94/160 [15:01<10:32, 9.58s/it]print_dice: 0.
                         print iou: 0.398002952337265
     5693878531455994,
11390 masks_dr unique: tensor([-7.8879, -7.8770, -7.8542, ..., 11.9324, 11.9336, 11.9361],
            grad_fn=<Unique2Backward0>)
11392 masks_dr unique: tensor([-7.8879, -7.8770, -7.8542,
                                                        ..., 11.9324, 11.9336, 11.9361],
            grad_fn=<Unique2Backward0>)
11393
11394 Epoch 30/499: 59%
                                 95/160 [15:11<10:24,
                                                         9.60s/it]print_dice: 0.
     5286030173301697, print iou: 0.3592525124549866
11395 masks dr unique: tensor([-7.8881, -7.8771, -7.8544,
                                                        ..., 11.9349, 11.9359, 11.9385],
11396
            grad fn=<Unique2Backward0>)
11397 masks_dr unique: tensor([-7.8881, -7.8771, -7.8544, ..., 11.9349, 11.9359, 11.9385],
            grad fn=<Unique2Backward0>)
11398
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11399 Epoch 30/499: 60%
                              96/160 [15:20<10:12, 9.57s/it]print dice: 0.
     5021659731864929, print_iou: 0.33526143431663513
11400 masks dr unique: tensor([-7.9769, -7.9684, -7.9678, ..., 13.2983, 13.2988, 13.3006],
11401
            grad fn=<Unique2Backward0>)
11402 masks_dr unique: tensor([-7.9769, -7.9684, -7.9678, ..., 13.2983, 13.2988, 13.3006],
            grad_fn=<Unique2Backward0>)
11404 Epoch 30/499: 61%
                                 97/160 [15:29<09:57, 9.48s/it]print_dice: 0.
     5401090979576111, print_iou: 0.3699653744697571
11405 masks_dr unique: tensor([-7.8914, -7.8804, -7.8577, ..., 11.9349, 11.9353, 11.9382],
            grad fn=<Unique2Backward0>)
11406
11407 masks_dr unique: tensor([-7.8914, -7.8804, -7.8577, ..., 11.9349, 11.9353, 11.9382],
            grad fn=<Unique2Backward0>)
11408
11409 print_dice: 0.5269578099250793, print_iou: 0.357734352350235
11410 Epoch 30/499: 61%| | 98/160 [15:39<09:51, 9.54s/it]masks_dr unique: tensor([-7.
     6597, -7.6561, -7.6412, ..., 13.3125, 13.3125, 13.3137],
11411
            grad_fn=<Unique2Backward0>)
11412 masks_dr unique: tensor([-7.6597, -7.6561, -7.6412, ..., 13.3125, 13.3125, 13.3137],
            grad_fn=<Unique2Backward0>)
11414 Epoch 30/499: 62%
                                99/160 [15:49<09:43, 9.56s/it]print_dice: 0.
     5805383920669556, print_iou: 0.408984899520874
11415 masks_dr unique: tensor([-7.4235, -7.4172, -7.4132, ..., 12.8879, 12.8881, 12.8884],
            grad_fn=<Unique2Backward0>)
11417 masks_dr unique: tensor([-7.4235, -7.4172, -7.4132, ..., 12.8879, 12.8881, 12.8884],
            grad fn=<Unique2Backward0>)
11418
                                | 100/160 [15:58<09:34, 9.57s/it]print_dice: 0.
11419 Epoch 30/499: 62%
     5153611898422241, print_iou: 0.3471289873123169
11420 masks dr unique: tensor([-7.7343, -7.7274, -7.7066, ..., 12.4149, 12.4175, 12.4207],
            grad fn=<Unique2Backward0>)
11421
11422 masks_dr unique: tensor([-7.7343, -7.7274, -7.7066, ..., 12.4149, 12.4175, 12.4207],
            grad fn=<Unique2Backward0>)
11423
11424 Epoch 30/499: 63% | 101/160 [16:08<09:23, 9.55s/it]print dice: 0.
     5146545171737671, print_iou: 0.3464880883693695
      [100/160] eta: 0:09:35 time: 9.5639 data: 0.0004
11426 masks_dr unique: tensor([-7.5352, -7.5273, -7.5229, ..., 12.6158, 12.6190, 12.6241],
11427
            grad_fn=<Unique2Backward0>)
11428 masks_dr unique: tensor([-7.5352, -7.5273, -7.5229, ..., 12.6158, 12.6190, 12.6241],
            grad_fn=<Unique2Backward0>)
11429
11430 Epoch 30/499: 64%
                               | 102/160 [16:17<09:15, 9.57s/it]print_dice: 0.
     4350898563861847, print_iou: 0.2780286371707916
11431 masks_dr unique: tensor([-8.0285, -8.0193, -8.0058, ..., 13.0434, 13.0439, 13.0482],
            grad fn=<Unique2Backward0>)
11432
11433 masks_dr unique: tensor([-8.0285, -8.0193, -8.0058, ..., 13.0434, 13.0439, 13.0482],
            grad_fn=<Unique2Backward0>)
11434
11435 Epoch 30/499: 64%
                                | 103/160 [16:27<09:06, 9.60s/it]print_dice: 0.
     5124724507331848, print_iou: 0.3445129096508026
11436 masks_dr unique: tensor([-7.7103, -7.6970, -7.6832, ..., 12.2663, 12.2674, 12.2682],
            grad_fn=<Unique2Backward0>)
11437
11438 masks_dr unique: tensor([-7.7103, -7.6970, -7.6832, ..., 12.2663, 12.2674, 12.2682],
11439
            grad_fn=<Unique2Backward0>)
11440 Epoch 30/499: 65%| | 104/160 [16:37<08:56, 9.58s/it]print_dice: 0.
     585132896900177, print_iou: 0.4135603606700897
11441 masks_dr unique: tensor([-8.2262, -8.2246, -8.2170, ..., 13.5724, 13.5727, 13.5730],
            grad_fn=<Unique2Backward0>)
11442
11443 masks dr unique: tensor([-8.2262, -8.2246, -8.2170, ..., 13.5724, 13.5727, 13.5730],
            grad_fn=<Unique2Backward0>)
11444
11445 print_dice: 0.5706738233566284,
                                     print_iou: 0.3992607593536377
                        | 105/160 [16:46<08:46, 9.58s/it]masks_dr unique: tensor([-7.
11446 Epoch 30/499: 66%|
     8537, -7.8473, -7.8436, ..., 13.3805, 13.3820, 13.3871],
11447
            grad_fn=<Unique2Backward0>)
11448 masks_dr unique: tensor([-7.8537, -7.8473, -7.8436, ..., 13.3805, 13.3820, 13.3871],
            grad_fn=<Unique2Backward0>)
                                     print iou: 0.3789171874523163
11450 print dice: 0.5495865941047668,
11451 Epoch 30/499: 66%
                                | 106/160 [16:56<08:37, 9.58s/it]masks_dr unique: tensor([-7.
     8902, -7.8793, -7.8566, ..., 11.9356, 11.9361, 11.9390],
            grad_fn=<Unique2Backward0>)
11452
11453 masks_dr unique: tensor([-7.8902, -7.8793, -7.8566, ..., 11.9356, 11.9361, 11.9390],
11454
            grad fn=<Unique2Backward0>)
11455 print dice: 0.46736565232276917, print iou: 0.30494269728660583
```

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11456 8928, -7.8819, -7.8592, ..., 11.9378, 11.9383, 11.9412],
            grad_fn=<Unique2Backward0>)
11458 masks dr unique: tensor([-7.8928, -7.8819, -7.8592, ..., 11.9378, 11.9383, 11.9412],
            grad fn=<Unique2Backward0>)
11459
11460 print_dice: 0.5543881058692932, print_iou: 0.3834972083568573
11461 Epoch 30/499: 68% | 108/160 [17:15<08:16, 9.55s/it] masks_dr unique: tensor([-7.
     8917, -7.8808, -7.8582, ..., 11.9374, 11.9379, 11.9408],
11462
            grad_fn=<Unique2Backward0>)
11463 masks_dr unique: tensor([-7.8917, -7.8808, -7.8582, ..., 11.9374, 11.9379, 11.9408],
            grad fn=<Unique2Backward0>)
11464
11465 Epoch 30/499: 68%
                                | 109/160 [17:24<08:07, 9.56s/it]print dice: 0.
     5186763405799866, print iou: 0.35014382004737854
11466 masks_dr unique: tensor([-7.8930, -7.8821, -7.8594, ..., 11.9396, 11.9403, 11.9430],
            grad fn=<Unique2Backward0>)
11468 masks_dr unique: tensor([-7.8930, -7.8821, -7.8594, ..., 11.9396, 11.9403, 11.9430],
            grad_fn=<Unique2Backward0>)
11470 print dice: 0.5109378695487976, print iou: 0.3431273102760315
11471 Epoch 30/499: 69% | 110/160 [17:34<07:59, 9.59s/it]masks_dr unique: tensor([-8.
     1985, -8.1904, -8.1698, ..., 12.5314, 12.5338, 12.5373],
11472
            grad fn=<Unique2Backward0>)
11473 masks_dr unique: tensor([-8.1985, -8.1904, -8.1698, ..., 12.5314, 12.5338, 12.5373],
            grad_fn=<Unique2Backward0>)
11475 Epoch 30/499: 69% | 111/160 [17:44<07:48, 9.56s/it]print_dice: 0.
     5410295128822327, print_iou: 0.37082964181900024
11476 masks_dr unique: tensor([-7.8929, -7.8821, -7.8594, ..., 11.9340, 11.9355, 11.9378],
            grad_fn=<Unique2Backward0>)
11477
11478 masks dr unique: tensor([-7.8929, -7.8821, -7.8594, ..., 11.9340, 11.9355, 11.9378],
            grad fn=<Unique2Backward0>)
11479
11480 print dice: 0.5486025214195251, print_iou: 0.3779822885990143
11481 Epoch 30/499: 70%| | 112/160 [17:53<07:35, 9.48s/it]masks_dr unique: tensor([-8.
     2394, -8.2311, -8.2159, ..., 13.1544, 13.1619, 13.1668],
            grad fn=<Unique2Backward0>)
11482
11483 masks_dr unique: tensor([-8.2394, -8.2311, -8.2159, ..., 13.1544, 13.1619, 13.1668],
11484
            grad_fn=<Unique2Backward0>)
11485 print_dice: 0.4430225193500519, print_iou: 0.2845400869846344
11486 Epoch 30/499: 71% | 113/160 [18:02<07:27, 9.53s/it]masks_dr unique: tensor([-7.
     4954, -7.4884, -7.4764, ..., 12.5938, 12.5965, 12.5987],
            grad_fn=<Unique2Backward0>)
11487
11488 masks_dr unique: tensor([-7.4954, -7.4884, -7.4764, ..., 12.5938, 12.5965, 12.5987],
            grad fn=<Unique2Backward0>)
11489
11490 Epoch 30/499: 71%
                                 | 114/160 [18:12<07:20, 9.57s/it]print_dice: 0.
     5009722709655762, print_iou: 0.33419814705848694
11491 masks_dr unique: tensor([-8.0099, -8.0032, -7.9853, ..., 13.1222, 13.1222, 13.1246],
            grad_fn=<Unique2Backward0>)
11493 masks_dr unique: tensor([-8.0099, -8.0032, -7.9853, ..., 13.1222, 13.1222, 13.1246],
            grad_fn=<Unique2Backward0>)
11495 print_dice: 0.5479199290275574, print_iou: 0.37733450531959534
11496 Epoch 30/499: 72% | 115/160 [18:22<07:10, 9.56s/it]masks_dr unique: tensor([-7.
     6704, -7.6596, -7.6494, ..., 12.4711, 12.4757, 12.4815],
11497
            grad_fn=<Unique2Backward0>)
11498 masks_dr unique: tensor([-7.6704, -7.6596, -7.6494, ..., 12.4711, 12.4757, 12.4815],
11499
            grad_fn=<Unique2Backward0>)
11500 Epoch 30/499: 72% | 116/160 [18:31<06:55, 9.45s/it]print_dice: 0.
     5075469613075256, print_iou: 0.34007564187049866
11501 masks_dr unique: tensor([-7.3653, -7.3510, -7.3422, ..., 12.5046, 12.5050, 12.5053],
11502
            grad_fn=<Unique2Backward0>)
11503 masks_dr unique: tensor([-7.3653, -7.3510, -7.3422, ..., 12.5046, 12.5050, 12.5053],
            grad_fn=<Unique2Backward0>)
11504
11505 Epoch 30/499: 73%
                                 | 117/160 [18:41<06:49, 9.53s/it]print_dice: 0.
                         print_iou: 0.3933296799659729
     5645895600318909,
11506 masks_dr unique: tensor([-7.8500, -7.8376, -7.8286, ..., 12.9669, 12.9671, 12.9677],
            grad_fn=<Unique2Backward0>)
11507
11508 masks_dr unique: tensor([-7.8500, -7.8376, -7.8286, ..., 12.9669, 12.9671, 12.9677],
11509
            grad_fn=<Unique2Backward0>)
11510 Epoch 30/499: 74% | 118/160 [18:50<06:39, 9.51s/it]print dice: 0.
     5584588646888733,
                       print_iou: 0.38740402460098267
11511 masks dr unique: tensor([-7.8906, -7.8799, -7.8573, ..., 11.9424, 11.9431, 11.9458],
11512
            grad_fn=<Unique2Backward0>)
11513 masks_dr unique: tensor([-7.8906, -7.8799, -7.8573, ..., 11.9424, 11.9431, 11.9458],
```

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grad fn=<Unique2Backward0>)
11514
11515 Epoch 30/499: 74%| | 119/160 [19:00<06:30, 9.53s/it]print_dice: 0.
     5032258629798889, print iou: 0.33620694279670715
11516 masks_dr unique: tensor([-7.7529, -7.7396, -7.7327, ..., 13.0370, 13.0371, 13.0378],
            grad_fn=<Unique2Backward0>)
11518 masks_dr unique: tensor([-7.7529, -7.7396, -7.7327, ..., 13.0370, 13.0371, 13.0378],
11519
            grad fn=<Unique2Backward0>)
11520 print_dice: 0.5089094042778015, print_iou: 0.3413001298904419
11521 Epoch 30/499: 75% | 120/160 [19:09<06:21, 9.53s/it]masks_dr unique: tensor([-7.
     8926, -7.8819, -7.8593, ..., 11.9439, 11.9443, 11.9471],
            grad fn=<Unique2Backward0>)
11522
11523 masks_dr unique: tensor([-7.8926, -7.8819, -7.8593, ..., 11.9439, 11.9443, 11.9471],
11524
            grad_fn=<Unique2Backward0>)
11525 Epoch 30/499: 76%
                                | 121/160 [19:19<06:11, 9.53s/it]print dice: 0.
     5678796172142029, print_iou: 0.3965306580066681
11526 masks_dr unique: tensor([-7.8109, -7.7989, -7.7838, ..., 12.7878, 12.7899, 12.7951],
            grad fn=<Unique2Backward0>)
11527
11528 masks_dr unique: tensor([-7.8109, -7.7989, -7.7838, ..., 12.7878, 12.7899, 12.7951],
            grad_fn=<Unique2Backward0>)
11529
11530 Epoch 30/499: 76%| | 122/160 [19:28<06:02, 9.53s/it]print_dice: 0.
     5591760873794556, print_iou: 0.3880946636199951
11531 masks_dr unique: tensor([-7.8890, -7.8783, -7.8557, ..., 11.9431, 11.9435, 11.9464],
11532
            grad fn=<Unique2Backward0>)
11533 masks_dr unique: tensor([-7.8890, -7.8783, -7.8557, ..., 11.9431, 11.9435, 11.9464],
            grad fn=<Unique2Backward0>)
11534
11535 Epoch 30/499: 77% | 123/160 [19:38<05:55, 9.60s/it]print_dice: 0.
     48134151101112366, print iou: 0.31695178151130676
11536 masks_dr unique: tensor([-7.8899, -7.8792, -7.8567, ..., 11.9451, 11.9457, 11.9485],
            grad_fn=<Unique2Backward0>)
11537
11538 masks_dr unique: tensor([-7.8899, -7.8792, -7.8567, ..., 11.9451, 11.9457, 11.9485],
            grad_fn=<Unique2Backward0>)
11540 print_dice: 0.538490891456604, print_iou: 0.36844852566719055
11541 Epoch 30/499: 78% | 124/160 [19:47<05:42, 9.50s/it]masks_dr unique: tensor([-7.
     7612, -7.7476, -7.7406, ..., 12.3289, 12.3347, 12.3363],
11542
            grad_fn=<Unique2Backward0>)
11543 masks_dr unique: tensor([-7.7612, -7.7476, -7.7406, ..., 12.3289, 12.3347, 12.3363],
            grad_fn=<Unique2Backward0>)
11544
11545 Epoch 30/499: 78% | 125/160 [19:57<05:32, 9.51s/it]print_dice: 0.
     5455308556556702, print_iou: 0.3750721514225006
11546 masks_dr unique: tensor([-7.7886, -7.7769, -7.7692, ..., 12.4315, 12.4345, 12.4377],
            grad fn=<Unique2Backward0>)
11547
11548 masks_dr unique: tensor([-7.7886, -7.7769, -7.7692, ..., 12.4315, 12.4345, 12.4377],
11549
            grad_fn=<Unique2Backward0>)
11550 print_dice: 0.5388612151145935, print_iou: 0.36879533529281616
1476, -8.1341, -8.1257, ..., 13.1671, 13.1704, 13.1739],
            grad_fn=<Unique2Backward0>)
11552
11553 masks_dr unique: tensor([-8.1476, -8.1341, -8.1257, ..., 13.1671, 13.1704, 13.1739],
11554
            grad_fn=<Unique2Backward0>)
11555 print_dice: 0.5821308493614197, print_iou: 0.41056743264198303
11556 Epoch 30/499: 79% | 127/160 [20:16<05:16, 9.58s/it] masks_dr unique: tensor([-7.
     8699, -7.8689, -7.8551, ..., 13.2652, 13.2673, 13.2678],
11557
            grad_fn=<Unique2Backward0>)
11558 masks_dr unique: tensor([-7.8699, -7.8689, -7.8551, ..., 13.2652, 13.2673, 13.2678],
            grad_fn=<Unique2Backward0>)
11560 Epoch 30/499: 80%
                                | 128/160 [20:26<05:05, 9.55s/it]print_dice: 0.
     5607425570487976, print iou: 0.38960546255111694
11561 masks_dr unique: tensor([-7.8897, -7.8791, -7.8565, ..., 11.9460, 11.9465, 11.9493],
            grad fn=<Unique2Backward0>)
11563 masks_dr unique: tensor([-7.8897, -7.8791, -7.8565, ..., 11.9460, 11.9465, 11.9493],
            grad fn=<Unique2Backward0>)
11564
11565 Epoch 30/499: 81% | 129/160 [20:35<04:57, 9.59s/it]print_dice: 0.
     5163348317146301,
                       print_iou: 0.3480130732059479
11566 masks dr unique: tensor([-7.5193, -7.5168, -7.5067, ..., 11.5992, 11.5997, 11.6054],
            grad_fn=<Unique2Backward0>)
11567
11568 masks_dr unique: tensor([-7.5193, -7.5168, -7.5067, ..., 11.5992, 11.5997, 11.6054],
            grad fn=<Unique2Backward0>)
11569
11570 Epoch 30/499: 81%
                           | | | | 130/160 [20:45<04:46, 9.55s/it]print_dice: 0.
     507631242275238,
                       print iou: 0.3401513695716858
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11571 masks dr unique: tensor([-8.1281, -8.1144, -8.1044, ..., 13.3024, 13.3051, 13.3091],
11572
            grad fn=<Unique2Backward0>)
11573 masks dr unique: tensor([-8.1281, -8.1144, -8.1044, ..., 13.3024, 13.3051, 13.3091],
            grad fn=<Unique2Backward0>)
11574
11575 Epoch 30/499: 82%| | 131/160 [20:54<04:37, 9.57s/it]print_dice: 0.
     5363892912864685, print_iou: 0.36648356914520264
11576 masks_dr unique: tensor([-7.5469, -7.5381, -7.5323, ..., 12.4223, 12.4248, 12.4285],
11577
            grad fn=<Unique2Backward0>)
11578 masks_dr unique: tensor([-7.5469, -7.5381, -7.5323, ..., 12.4223, 12.4248, 12.4285],
            grad fn=<Unique2Backward0>)
11579
11580 print dice: 0.5033783316612244,
                                     print_iou: 0.33634307980537415
11581 Epoch 30/499: 82% | 132/160 [21:04<04:27, 9.54s/it]masks_dr unique: tensor([-7.
     8914, -7.8807, -7.8581, ..., 11.9476, 11.9480, 11.9509],
            grad fn=<Unique2Backward0>)
11582
11583 masks_dr unique: tensor([-7.8914, -7.8807, -7.8581, ..., 11.9476, 11.9480, 11.9509],
            grad_fn=<Unique2Backward0>)
11584
11585 Epoch 30/499: 83% | | 133/160 [21:14<04:19, 9.59s/it]print_dice: 0.
     4980996251106262, print_iou: 0.33164623379707336
11586 masks_dr unique: tensor([-8.0602, -8.0427, -8.0398, ..., 13.2951, 13.2969, 13.2976],
            grad fn=<Unique2Backward0>)
11588 masks_dr unique: tensor([-8.0602, -8.0427, -8.0398, ..., 13.2951, 13.2969, 13.2976],
            grad_fn=<Unique2Backward0>)
11589
11590 Epoch 30/499: 84% | 84% | 134/160 [21:23<04:07, 9.51s/it]print dice: 0.
     5279848575592041, print_iou: 0.35868170857429504
11591 masks_dr unique: tensor([-7.8931, -7.8824, -7.8597, ..., 11.9462, 11.9474, 11.9497],
            grad fn=<Unique2Backward0>)
11592
11593 masks_dr unique: tensor([-7.8931, -7.8824, -7.8597, ..., 11.9462, 11.9474, 11.9497],
            grad_fn=<Unique2Backward0>)
11594
11595 Epoch 30/499: 84% | 135/160 [21:33<03:59, 9.58s/it]print_dice: 0.51047682762146
         print iou: 0.34271156787872314
11596 masks_dr unique: tensor([-7.5300, -7.5150, -7.5037, ..., 12.2075, 12.2108, 12.2121],
            grad_fn=<Unique2Backward0>)
11597
11598 masks dr unique: tensor([-7.5300, -7.5150, -7.5037, ..., 12.2075, 12.2108, 12.2121],
11599
            grad_fn=<Unique2Backward0>)
11600 Epoch 30/499: 85%| | 136/160 [21:42<03:48, 9.54s/it]print_dice: 0.
     46794837713241577, print_iou: 0.3054390251636505
11601 masks_dr unique: tensor([-7.8521, -7.8449, -7.8346, ..., 12.1245, 12.1256, 12.1300],
            grad_fn=<Unique2Backward0>)
11602
11603 masks_dr unique: tensor([-7.8521, -7.8449, -7.8346, ..., 12.1245, 12.1256, 12.1300],
            grad fn=<Unique2Backward0>)
11604
11605 Epoch 30/499: 86%
                                | | 137/160 [21:52<03:39, 9.53s/it]print_dice: 0.
     4972054362297058, print_iou: 0.3308539092540741
11606 masks_dr unique: tensor([-8.0821, -8.0651, -8.0581, ..., 12.5731, 12.5798, 12.5846],
            grad_fn=<Unique2Backward0>)
11608 masks_dr unique: tensor([-8.0821, -8.0651, -8.0581, ..., 12.5731, 12.5798, 12.5846],
11609
            grad_fn=<Unique2Backward0>)
11610 Epoch 30/499: 86% 86% 138/160 [22:01<03:29, 9.54s/it]print_dice: 0.
     4856862425804138, print_iou: 0.3207302689552307
11611 masks_dr unique: tensor([-7.7856, -7.7720, -7.7594, ..., 12.5648, 12.5681, 12.5709],
            grad fn=<Unique2Backward0>)
11612
11613 masks_dr unique: tensor([-7.7856, -7.7720, -7.7594, ..., 12.5648, 12.5681, 12.5709],
11614
            grad_fn=<Unique2Backward0>)
11615 print dice: 0.5342418551445007, print iou: 0.3644815683364868
11616 Epoch 30/499: 87% | | 139/160 [22:11<03:21, 9.59s/it]masks_dr unique: tensor([-7.
     9791, -7.9734, -7.9570, ..., 13.2646, 13.2652, 13.2670],
            grad_fn=<Unique2Backward0>)
11617
11618 masks_dr unique: tensor([-7.9791, -7.9734, -7.9570, ..., 13.2646, 13.2652, 13.2670],
11619
            grad_fn=<Unique2Backward0>)
11620 print dice: 0.5464817881584167.
                                     print_iou: 0.3759717643260956
11621 Epoch 30/499: 88% | 140/160 [22:20<03:10, 9.52s/it]masks_dr unique: tensor([-7.
     3681, -7.3546, -7.3457, ..., 12.1882, 12.1903, 12.1905],
11622
            grad_fn=<Unique2Backward0>)
11623 masks_dr unique: tensor([-7.3681, -7.3546, -7.3457, ..., 12.1882, 12.1903, 12.1905],
11624
            grad_fn=<Unique2Backward0>)
11625 Epoch 30/499: 88% | 88% | 141/160 [22:30<03:01, 9.53s/it]print_dice: 0.
                        print_iou: 0.375667005777359
     5461598038673401,
11626 masks_dr unique: tensor([-7.8944, -7.8836, -7.8610, ..., 11.9485, 11.9490, 11.9518],
            grad_fn=<Unique2Backward0>)
11627
11628 masks dr unique: tensor([-7.8944, -7.8836, -7.8610, ..., 11.9485, 11.9490, 11.9518],
```

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grad fn=<Unique2Backward0>)
11629
11630 Epoch 30/499: 89%| | 142/160 [22:39<02:52, 9.56s/it]print_dice: 0.
     5170470476150513, print_iou: 0.3486604392528534
11631 masks_dr unique: tensor([-7.7538, -7.7444, -7.7360, ..., 13.1535, 13.1541, 13.1549],
            grad_fn=<Unique2Backward0>)
11633 masks_dr unique: tensor([-7.7538, -7.7444, -7.7360, ..., 13.1535, 13.1541, 13.1549],
            grad fn=<Unique2Backward0>)
11634
11635 print_dice: 0.5030397772789001, print_iou: 0.33604082465171814
11636 Epoch 30/499: 89% | 143/160 [22:49<02:43, 9.59s/it]masks_dr unique: tensor([-7.
     9191, -7.9037, -7.9017, ..., 11.9318, 11.9390, 11.9443],
            grad fn=<Unique2Backward0>)
11637
11638 masks_dr unique: tensor([-7.9191, -7.9037, -7.9017, ..., 11.9318, 11.9390, 11.9443],
            grad_fn=<Unique2Backward0>)
11639
11640 Epoch 30/499: 90% | 144/160 [22:58<02:32, 9.54s/it]print dice: 0.
     5292632579803467, print_iou: 0.35986268520355225
11641 masks_dr unique: tensor([-7.8208, -7.8095, -7.8014, ..., 12.1815, 12.1879, 12.1926],
            grad fn=<Unique2Backward0>)
11643 masks_dr unique: tensor([-7.8208, -7.8095, -7.8014, ..., 12.1815, 12.1879, 12.1926],
            grad_fn=<Unique2Backward0>)
11644
11645 Epoch 30/499: 91% | 145/160 [23:08<02:22, 9.52s/it]print_dice: 0.
     4925002157688141, print_iou: 0.32670003175735474
11646 masks_dr unique: tensor([-7.6579, -7.6524, -7.6395, ..., 13.5214, 13.5230, 13.5275],
11647
            grad fn=<Unique2Backward0>)
11648 masks_dr unique: tensor([-7.6579, -7.6524, -7.6395, ..., 13.5214, 13.5230, 13.5275],
            grad fn=<Unique2Backward0>)
11650 print dice: 0.46188047528266907, print iou: 0.3002890646457672
11651 Epoch 30/499: 91% | 146/160 [23:17<02:13, 9.53s/it]masks_dr unique: tensor([-7.
     5894, -7.5781, -7.5662, ..., 12.3742, 12.3761, 12.3818],
            grad_fn=<Unique2Backward0>)
11652
11653 masks_dr unique: tensor([-7.5894, -7.5781, -7.5662, ..., 12.3742, 12.3761, 12.3818],
            grad_fn=<Unique2Backward0>)
11655 Epoch 30/499: 92%| | 147/160 [23:27<02:03, 9.53s/it]print_dice: 0.
     48214396834373474, print_iou: 0.3176480233669281
11656 masks_dr unique: tensor([-8.1400, -8.1222, -8.1221, ..., 13.1124, 13.1126, 13.1134],
            grad_fn=<Unique2Backward0>)
11658 masks_dr unique: tensor([-8.1400, -8.1222, -8.1221, ..., 13.1124, 13.1126, 13.1134],
            grad_fn=<Unique2Backward0>)
11659
11660 Epoch 30/499: 92% | 148/160 [23:37<01:54, 9.58s/it]print_dice: 0.
     5188310146331787, print_iou: 0.3502848148345947
11661 masks dr unique: tensor([-8.0164, -8.0064, -7.9915, ..., 13.3392, 13.3398, 13.3436],
            grad fn=<Unique2Backward0>)
11662
11663 masks_dr unique: tensor([-8.0164, -8.0064, -7.9915, ..., 13.3392, 13.3398, 13.3436],
            grad_fn=<Unique2Backward0>)
11664
11665 Epoch 30/499: 93% | 149/160 [23:46<01:44, 9.54s/it]print_dice: 0.
     5439866781234741, print_iou: 0.37361377477645874
11666 masks_dr unique: tensor([-7.7015, -7.7012, -7.6890, ..., 13.3443, 13.3452, 13.3455],
11667
            grad_fn=<Unique2Backward0>)
11668 masks_dr unique: tensor([-7.7015, -7.7012, -7.6890, ..., 13.3443, 13.3452, 13.3455],
11669
            grad_fn=<Unique2Backward0>)
11670 Epoch 30/499: 94%| 11670 [23:56<01:35, 9.52s/it]print_dice: 0.
     562777042388916, print_iou: 0.3915725648403168
11671 masks_dr unique: tensor([-7.7692, -7.7618, -7.7605, ..., 13.2237, 13.2249, 13.2249],
11672
            grad_fn=<Unique2Backward0>)
11673 masks_dr unique: tensor([-7.7692, -7.7618, -7.7605, ..., 13.2237, 13.2249, 13.2249],
            grad_fn=<Unique2Backward0>)
11675 Epoch 30/499: 94%
                                1 151/160 [24:05<01:25, 9.53s/it]print_dice: 0.</p>
     5414692163467407, print_iou: 0.371242880821228
11676 masks_dr unique: tensor([-7.9027, -7.8921, -7.8693, ..., 11.9475, 11.9488, 11.9512],
            grad fn=<Unique2Backward0>)
11678 masks_dr unique: tensor([-7.9027, -7.8921, -7.8693, ..., 11.9475, 11.9488, 11.9512],
            grad fn=<Unique2Backward0>)
11679
11680 print_dice: 0.6023392677307129, print_iou: 0.4309624433517456
11681 Epoch 30/499: 95% | 152/160 [24:15<01:16, 9.55s/it]masks_dr unique: tensor([-7.
     7745, -7.7626, -7.7623, ..., 12.0153, 12.0159, 12.0191],
            grad fn=<Unique2Backward0>)
11682
11683 masks dr unique: tensor([-7.7745, -7.7626, -7.7623, ..., 12.0153, 12.0159, 12.0191],
11684
            grad fn=<Unique2Backward0>)
                            | 153/160 [24:24<01:06, 9.54s/it]print dice: 0.
11685 Epoch 30/499: 96%
     5438582897186279,
                        print iou: 0.37349265813827515
```

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11686 masks dr unique: tensor([-8.0487, -8.0455, -8.0423, ..., 13.3407, 13.3430, 13.3431],
            grad_fn=<Unique2Backward0>)
11688 masks dr unique: tensor([-8.0487, -8.0455, -8.0423, ..., 13.3407, 13.3430, 13.3431],
11689
            grad fn=<Unique2Backward0>)
11690 print_dice: 0.5278022885322571, print_iou: 0.358513206243515
11691 Epoch 30/499: 96%| 11691 154/160 [24:34<00:56, 9.47s/it]masks_dr unique: tensor([-7.
     8992, -7.8887, -7.8659, ..., 11.9454, 11.9461, 11.9489],
11692
            grad_fn=<Unique2Backward0>)
11693 masks_dr unique: tensor([-7.8992, -7.8887, -7.8659, ..., 11.9454, 11.9461, 11.9489],
            grad fn=<Unique2Backward0>)
11694
11695 Epoch 30/499: 97% | 155/160 [24:43<00:47, 9.47s/it]print dice: 0.
     4513448178768158, print iou: 0.2914430797100067
11696 masks_dr unique: tensor([-7.6701, -7.6669, -7.6537, ..., 12.0812, 12.0853, 12.0910],
            grad fn=<Unique2Backward0>)
11697
11698 masks_dr unique: tensor([-7.6701, -7.6669, -7.6537, ..., 12.0812, 12.0853, 12.0910],
            grad_fn=<Unique2Backward0>)
11699
11700 Epoch 30/499: 98% | 156/160 [24:52<00:37, 9.44s/it]print_dice: 0.
     5963463187217712, print_iou: 0.4248528778553009
11701 masks_dr unique: tensor([-7.9023, -7.8917, -7.8690, ..., 11.9484, 11.9490, 11.9518],
            grad fn=<Unique2Backward0>)
11703 masks_dr unique: tensor([-7.9023, -7.8917, -7.8690, ..., 11.9484, 11.9490, 11.9518],
            grad_fn=<Unique2Backward0>)
11704
11705 print dice: 0.6011092662811279, print_iou: 0.4297042489051819
11706 Epoch 30/499: 98% | 157/160 [25:02<00:28, 9.48s/it]masks_dr unique: tensor([-7.
     4713, -7.4688, -7.4596, ..., 12.6580, 12.6592, 12.6596],
            grad fn=<Unique2Backward0>)
11707
11708 masks_dr unique: tensor([-7.4713, -7.4688, -7.4596, ..., 12.6580, 12.6592, 12.6596],
            grad_fn=<Unique2Backward0>)
11709
11710 Epoch 30/499: 99% | 158/160 [25:12<00:19, 9.54s/it]print_dice: 0.
     5158685445785522, print_iou: 0.34758952260017395
11711 masks_dr unique: tensor([-7.2551, -7.2421, -7.2353, ..., 11.9984, 12.0021, 12.0082],
11712
            grad_fn=<Unique2Backward0>)
11713 masks_dr unique: tensor([-7.2551, -7.2421, -7.2353, ..., 11.9984, 12.0021, 12.0082],
11714
            grad_fn=<Unique2Backward0>)
11715 Epoch 30/499: 99% 100 159/160 [25:21<00:09, 9.47s/it]print_dice: 0.
     44934940338134766, print_iou: 0.28978121280670166
11716 masks_dr unique: tensor([-7.8623, -7.8507, -7.8497, ..., 12.3063, 12.3108, 12.3174],
            grad_fn=<Unique2Backward0>)
11717
11718 masks_dr unique: tensor([-7.8623, -7.8507, -7.8497, ..., 12.3063, 12.3108, 12.3174],
            grad fn=<Unique2Backward0>)
11719
11720 Epoch 30/499: 100%| 100%| 160/160 [25:30<00:00, 9.43s/it]print_dice: 0.
     47363436222076416, print_iou: 0.3103020489215851
       [159/160] eta: 0:00:09 time: 9.5077 data: 0.0005
11721
11722 Epoch 30/499: 100% | 100% | 160/160 [25:31<00:00, 9.57s/it]
11723 Total time: 0:25:31 (9.5716 s / it)
11724 Averaged stats: training_loss: -217.0904 (-217.0904) loss_mask: -217.1955 (-217.1955)
     loss_dice: 0.1051 (0.1051)
       0%
                    | 0/12 [00:00<?, ?it/s]Net parameter norm: 1054.4260417340556
11725
11726 Validating...
11727 Valid dataloader len: 12
11728 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.5558e-04, 4
      .1590e-04, 4.3065e-04, ..., 1.0000e+00, 1.0000e+00,
11729
             1.0000e+00], grad fn=<Unique2Backward0>)
11730 masks_dr unique: tensor([6.1034e-04, 6.1509e-04, 6.1525e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
       8%|
                    | 1/12 [00:10<01:54, 10.43s/it]print_dice: 0.5636444091796875, print_iou: 0
11732
      .39241284132003784
       [ 0/12] eta: 0:02:05
                             time: 10.4291 data: 4.8730
11733
11734 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.8015e-04, 2
      .9557e-04, 2.9770e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad fn=<Unique2Backward0>)
11735
11736 masks dr unique: tensor([4.1104e-04, 4.1546e-04, 4.2807e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
11737
11738 print dice: 0.6123253703117371, print_iou: 0.44126003980636597
11739 17%
                    ]) unique sigmoid values: tensor([2.8032e-04, 2.9609e-04, 2.9799e-04, ..., 9.9999e-01, 9.
     9999e-01,
11740
             9.9999e-01], grad fn=<Unique2Backward0>)
11741 masks dr unique: tensor([4.1175e-04, 4.1619e-04, 4.2883e-04, ..., 9.9999e-01, 9.9999e-01,
```

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9.9999e-01], grad fn=<Unique2Backward0>)
11742
11743 25%
                    | 3/12 [00:22<01:02, 6.91s/it]print_dice: 0.5421102643013, print_iou: 0.
     37184587121009827
11744 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([4.4865e-04, 5
      .1966e-04, 5.5507e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
11745
11746 masks dr unique: tensor([5.8619e-04, 6.0027e-04, 6.1436e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
11747
11748 33%
                    4/12 [00:28<00:53, 6.63s/it]print_dice: 0.5196371674537659, print_iou: 0
      .35102012753486633
11749 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.8000e-04, 2
      .9598e-04, 2.9756e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad fn=<Unique2Backward0>)
11750
11751 masks dr unique: tensor([4.1171e-04, 4.1613e-04, 4.2874e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad fn=<Unique2Backward0>)
11752
11753 print_dice: 0.5857419371604919, print_iou: 0.4141691029071808
                   | 5/12 [00:34<00:43, 6.28s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([2.4205e-04, 2.5695e-04, 2.7168e-04, ..., 9.9999e-01, 9.
     9999e-01,
11755
             9.9999e-01], grad_fn=<Unique2Backward0>)
11756 masks_dr unique: tensor([4.5831e-04, 4.6321e-04, 4.6462e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
11757
                    | 6/12 [00:39<00:36, 6.11s/it]print dice: 0.520016074180603, print iou: 0.
11758 50%
     3513660132884979
11759 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.8053e-04, 2
      .9695e-04, 2.9813e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad fn=<Unique2Backward0>)
11760
11761 masks_dr unique: tensor([2.9562e-04, 3.0557e-04, 3.1551e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad fn=<Unique2Backward0>)
11762
                    | 7/12 [00:46<00:30, 6.14s/it]print_dice: 0.4425521492958069, print_iou: 0
11763 58%
      .28415215015411377
11764 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.0169e-04, 2
      .2900e-04, 2.3341e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad fn=<Unique2Backward0>)
11765
11766 masks dr unique: tensor([3.1727e-04, 3.2249e-04, 3.2882e-04, ..., 1.0000e+00, 1.0000e+00,
11767
             1.0000e+00], grad_fn=<Unique2Backward0>)
11768 67%
                    | 8/12 [00:51<00:23, 5.99s/it]print_dice: 0.5532403588294983, print_iou: 0
      .38239961862564087
11769 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.5272e-04, 2
      .6318e-04, 2.6700e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad fn=<Unique2Backward0>)
11770
11771 masks_dr unique: tensor([4.2582e-04, 4.3114e-04, 4.3442e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
11772
11773 print dice: 0.5697925090789795, print iou: 0.3983984887599945
               | 9/12 [00:58<00:18, 6.11s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([2.8032e-04, 2.9562e-04, 2.9772e-04, ..., 9.9999e-01, 9.
     9999e-01,
11775
             9.9999e-01], grad_fn=<Unique2Backward0>)
11776 masks_dr unique: tensor([4.1172e-04, 4.1614e-04, 4.2874e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad fn=<Unique2Backward0>)
11777
11778 print_dice: 0.5848543643951416, print_iou: 0.4132821261882782
11779 83%
              | 10/12 [01:03<00:11, 5.95s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([2.8974e-04, 3.3354e-04, 3.4609e-04, ..., 1.0000e+00, 1.
     0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
11781 masks_dr unique: tensor([4.9015e-04, 4.9133e-04, 4.9426e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad fn=<Unique2Backward0>)
11782
                   | | 11/12 [01:09<00:05, 5.86s/it]print dice: 0.6231288909912109, print iou:
11783 92%
     0.45256876945495605
11784 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.7992e-04, 2
      .9595e-04, 2.9759e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
11785
11786 masks_dr unique: tensor([4.1185e-04, 4.1630e-04, 4.2893e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
11787
                    | 12/12 [01:14<00:00, 5.76s/it]print dice: 0.58905428647995, print iou: 0.
11788 100%
     4174889922142029
                                time: 6.2416 data: 0.4066
       [11/12] eta: 0:00:06
11789
              12/12 [01:15<00:00, 6.28s/it]
11790 100%
11791 Total time: 0:01:15 (6.2751 s / it)
```

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11792 ============
11793 Averaged stats:
11794 Epoch 31/499: 0%
                           | 0/160 [00:00<?, ?it/s]epoch:
                                                                   31 learning rate:
11795 masks dr unique: tensor([-7.7088, -7.7053, -7.6908, ..., 12.0699, 12.0715, 12.0755],
            grad fn=<Unique2Backward0>)
11797 masks_dr unique: tensor([-7.7088, -7.7053, -7.6908, ..., 12.0699, 12.0715, 12.0755],
            grad fn=<Unique2Backward0>)
11798
11799 print_dice: 0.5746185183525085,
                                     print_iou: 0.4031331539154053
11800 [ 0/160] eta: 0:36:31 time: 13.6969 data: 4.0871
11801 Epoch 31/499:
                     1%|
                                | 1/160 [00:13<36:17, 13.70s/it]masks_dr unique: tensor([-7.
     9011, -7.8907, -7.8676, ..., 11.9467, 11.9474, 11.9501],
            grad_fn=<Unique2Backward0>)
11802
11803 masks_dr unique: tensor([-7.9011, -7.8907, -7.8676, ..., 11.9467, 11.9474, 11.9501],
            grad fn=<Unique2Backward0>)
                                  2/160 [00:23<29:49, 11.32s/it]print_dice: 0.4908595085144043
11805 Epoch 31/499:
                     1%||
         print_iou: 0.32525768876075745
11806 masks_dr unique: tensor([-8.1243, -8.1115, -8.0988, ..., 13.2072, 13.2075, 13.2085],
            grad_fn=<Unique2Backward0>)
11808 masks_dr unique: tensor([-8.1243, -8.1115, -8.0988, ..., 13.2072, 13.2075, 13.2085],
            grad_fn=<Unique2Backward0>)
                                  3/160 [00:32<27:16, 10.42s/it]print_dice: 0.5289169549942017
11810 Epoch 31/499:
                     2%||
         print_iou: 0.35954251885414124
11811 masks dr unique: tensor([-7.9569, -7.9513, -7.9343, ..., 13.1427, 13.1431, 13.1436],
            grad_fn=<Unique2Backward0>)
11813 masks_dr unique: tensor([-7.9569, -7.9513, -7.9343, ..., 13.1427, 13.1431, 13.1436],
            grad_fn=<Unique2Backward0>)
11814
                                  | 4/160 [00:42<25:56, 9.98s/it]print_dice: 0.5475960969924927
11815 Epoch 31/499:
                     2%
         print iou: 0.3770274221897125
11816 masks_dr unique: tensor([-7.9033, -7.8927, -7.8696, ..., 11.9478, 11.9492, 11.9515],
            grad fn=<Unique2Backward0>)
11818 masks_dr unique: tensor([-7.9033, -7.8927, -7.8696, ..., 11.9478, 11.9492, 11.9515],
11819
            grad_fn=<Unique2Backward0>)
11820 print_dice: 0.5700100064277649, print_iou: 0.3986111581325531
                     3%|
11821 Epoch 31/499:
                                  | 5/160 [00:51<25:22, 9.82s/it]masks_dr unique: tensor([-8.
     0338, -8.0266, -8.0236, ..., 12.2631, 12.2683, 12.2741],
11822
            grad_fn=<Unique2Backward0>)
11823 masks_dr unique: tensor([-8.0338, -8.0266, -8.0236, ..., 12.2631, 12.2683, 12.2741],
            grad_fn=<Unique2Backward0>)
11824
                                  6/160 [01:00<24:43, 9.63s/it]print_dice: 0.5266960859298706
11825 Epoch 31/499:
                     4%||
         print iou: 0.35749319195747375
11826 masks_dr unique: tensor([-7.9035, -7.8928, -7.8696, ..., 11.9478, 11.9485, 11.9512],
            grad_fn=<Unique2Backward0>)
11828 masks_dr unique: tensor([-7.9035, -7.8928, -7.8696, ..., 11.9478, 11.9485, 11.9512],
            grad_fn=<Unique2Backward0>)
                                  7/160 [01:10<24:37, 9.66s/it]print_dice: 0.5432074666023254
11830 Epoch 31/499:
                     4%|
         print_iou: 0.3728790879249573
11831 masks_dr unique: tensor([-7.9025, -7.8919, -7.8686, ..., 11.9492, 11.9499, 11.9526],
            grad_fn=<Unique2Backward0>)
11832
11833 masks_dr unique: tensor([-7.9025, -7.8919, -7.8686, ..., 11.9492, 11.9499, 11.9526],
            grad_fn=<Unique2Backward0>)
11835 print_dice: 0.5370676517486572, print_iou: 0.3671171963214874
11836 Epoch 31/499:
                     5%||
                                 | 8/160 [01:20<24:27, 9.65s/it]masks_dr unique: tensor([-7.
     6720, -7.6659, -7.6554, ..., 12.4812, 12.4830, 12.4866],
            grad_fn=<Unique2Backward0>)
11838 masks_dr unique: tensor([-7.6720, -7.6659, -7.6554, ..., 12.4812, 12.4830, 12.4866],
            grad_fn=<Unique2Backward0>)
11839
11840 Epoch 31/499:
                     6%
                                  9/160 [01:29<24:09, 9.60s/it]print_dice: 0.5591017603874207
         print_iou: 0.3880230784416199
11841 masks_dr unique: tensor([-8.2106, -8.2041, -8.2035, ..., 13.3078, 13.3087, 13.3093],
11842
            grad_fn=<Unique2Backward0>)
11843 masks dr unique: tensor([-8.2106, -8.2041, -8.2035, ..., 13.3078, 13.3087, 13.3093],
            grad_fn=<Unique2Backward0>)
11844
                                       print iou: 0.4408954083919525
11845 print dice: 0.6119741797447205,
11846 Epoch 31/499:
                                  | 10/160 [01:39<23:50, 9.53s/it]masks dr unique: tensor([-7.
                     6%
     7857, -7.7811, -7.7666, ..., 13.4449, 13.4463, 13.4493],
11847
            grad_fn=<Unique2Backward0>)
11848 masks_dr unique: tensor([-7.7857, -7.7811, -7.7666, ..., 13.4449, 13.4463, 13.4493],
            grad fn=<Unique2Backward0>)
11849
11850 print dice: 0.5088484883308411,
                                      print iou: 0.3412453532218933
```

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| 11/160 [01:48<23:45, 9.57s/it]masks_dr unique: tensor([-8.
                     7%
11851 Epoch 31/499:
     1034, -8.0998, -8.0832, ..., 13.4007, 13.4025, 13.4032],
            grad fn=<Unique2Backward0>)
11853 masks_dr unique: tensor([-8.1034, -8.0998, -8.0832, ..., 13.4007, 13.4025, 13.4032],
            grad fn=<Unique2Backward0>)
11855 Epoch 31/499: 8%|■
                                 | 12/160 [01:58<23:28, 9.52s/it]print_dice: 0.
     5038560628890991, print iou: 0.3367697596549988
11856 masks_dr unique: tensor([-7.7945, -7.7839, -7.7717, ..., 12.2420, 12.2463, 12.2513],
            grad_fn=<Unique2Backward0>)
11858 masks_dr unique: tensor([-7.7945, -7.7839, -7.7717, ..., 12.2420, 12.2463, 12.2513],
            grad fn=<Unique2Backward0>)
11859
11860 Epoch 31/499:
                                  | 13/160 [02:07<23:24, 9.55s/it]print dice: 0.517852246761322
                     8%
         print iou: 0.34939315915107727
11861 masks_dr unique: tensor([-7.9015, -7.8909, -7.8674, ..., 11.9505, 11.9519, 11.9542],
            grad_fn=<Unique2Backward0>)
11862
11863 masks_dr unique: tensor([-7.9015, -7.8909, -7.8674, ..., 11.9505, 11.9519, 11.9542],
            grad_fn=<Unique2Backward0>)
11865 Epoch 31/499:
                                  | 14/160 [02:17<23:10, 9.52s/it]print_dice: 0.
     6070454120635986, print_iou: 0.43579697608947754
11866 masks_dr unique: tensor([-7.9001, -7.8896, -7.8660, ..., 11.9497, 11.9503, 11.9531],
            grad_fn=<Unique2Backward0>)
11867
11868 masks_dr unique: tensor([-7.9001, -7.8896, -7.8660, ..., 11.9497, 11.9503, 11.9531],
            grad fn=<Unique2Backward0>)
11869
11870 print dice: 0.5151416063308716, print iou: 0.34692975878715515
                     9%
                                | 15/160 [02:26<22:59, 9.51s/it]masks_dr unique: tensor([-7.
11871 Epoch 31/499:
     9106, -7.9098, -7.8846, ..., 12.0376, 12.0389, 12.0443],
            grad fn=<Unique2Backward0>)
11872
11873 masks_dr unique: tensor([-7.9106, -7.9098, -7.8846, ..., 12.0376, 12.0389, 12.0443],
11874
            grad_fn=<Unique2Backward0>)
11875 print_dice: 0.4568136930465698,
                                     print_iou: 0.2960197925567627
11876 Epoch 31/499: 10%| | 16/160 [02:36<22:54, 9.55s/it]masks_dr unique: tensor([-7.
     5425, -7.5425, -7.5291, ..., 12.9870, 12.9881, 12.9882],
11877
            grad_fn=<Unique2Backward0>)
11878 masks dr unique: tensor([-7.5425, -7.5425, -7.5291, ..., 12.9870, 12.9881, 12.9882],
            grad fn=<Unique2Backward0>)
11879
11880 Epoch 31/499: 11%
                                 | 17/160 [02:45<22:49, 9.57s/it]print_dice: 0.475707471370697
         print_iou: 0.3120841085910797
11881 masks_dr unique: tensor([-7.2972, -7.2924, -7.2882, ..., 12.3115, 12.3184, 12.3230],
            grad_fn=<Unique2Backward0>)
11883 masks_dr unique: tensor([-7.2972, -7.2924, -7.2882, ..., 12.3115, 12.3184, 12.3230],
            grad fn=<Unique2Backward0>)
11884
11885 Epoch 31/499: 11%|■
                                  | 18/160 [02:55<22:31, 9.52s/it]print_dice: 0.
     5027507543563843, print_iou: 0.3357829451560974
11886 masks_dr unique: tensor([-7.8335, -7.8204, -7.8121, ..., 12.6478, 12.6539, 12.6560],
11887
            grad_fn=<Unique2Backward0>)
11888 masks_dr unique: tensor([-7.8335, -7.8204, -7.8121, ..., 12.6478, 12.6539, 12.6560],
            grad_fn=<Unique2Backward0>)
11889
                           | 19/160 [03:04<22:13, 9.46s/it]print_dice: 0.
11890 Epoch 31/499: 12%
     5387018918991089, print_iou: 0.36864611506462097
11891 masks_dr unique: tensor([-7.8516, -7.8366, -7.8343, ..., 13.0048, 13.0056, 13.0059],
11892
            grad_fn=<Unique2Backward0>)
11893 masks_dr unique: tensor([-7.8516, -7.8366, -7.8343, ..., 13.0048, 13.0056, 13.0059],
            grad_fn=<Unique2Backward0>)
11894
11895 Epoch 31/499: 12%
                                 | 20/160 [03:14<22:08, 9.49s/it]print dice: 0.
     5298563241958618, print_iou: 0.36041125655174255
11896 masks_dr unique: tensor([-7.9020, -7.8915, -7.8676, ..., 11.9544, 11.9557, 11.9581],
            grad_fn=<Unique2Backward0>)
11897
11898 masks_dr unique: tensor([-7.9020, -7.8915, -7.8676, ..., 11.9544, 11.9557, 11.9581],
            grad_fn=<Unique2Backward0>)
                                       print iou: 0.3732472360134125
11900 print_dice: 0.5435980558395386,
11901 Epoch 31/499: 13%
                                  21/160 [03:23<22:08, 9.56s/it]masks_dr unique: tensor([-7.
     9011, -7.8905, -7.8666, ..., 11.9522, 11.9526, 11.9555],
11902
            grad_fn=<Unique2Backward0>)
11903 masks dr unique: tensor([-7.9011, -7.8905, -7.8666, ..., 11.9522, 11.9526, 11.9555],
            grad fn=<Unique2Backward0>)
11904
11905 Epoch 31/499: 14%
                                  22/160 [03:33<22:02, 9.58s/it]print dice: 0.
     5358430743217468,
                         print iou: 0.3659737706184387
11906 masks dr unique: tensor([-7.9014, -7.8908, -7.8669, ..., 11.9539, 11.9544, 11.9572],
            grad_fn=<Unique2Backward0>)
11907
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11908 masks dr unique: tensor([-7.9014, -7.8908, -7.8669, ..., 11.9539, 11.9544, 11.9572],
11909
            grad fn=<Unique2Backward0>)
11910 Epoch 31/499: 14%
                                 | 23/160 [03:43<21:47, 9.54s/it]print dice: 0.
     5109555721282959, print_iou: 0.3431432545185089
11911 masks_dr unique: tensor([-8.0194, -8.0129, -7.9949, ..., 13.1489, 13.1506, 13.1507],
            grad_fn=<Unique2Backward0>)
11913 masks_dr unique: tensor([-8.0194, -8.0129, -7.9949, ..., 13.1489, 13.1506, 13.1507],
            grad_fn=<Unique2Backward0>)
11914
11915 print_dice: 0.5485517978668213, print_iou: 0.3779340982437134
0592, -8.0506, -8.0299, ..., 13.1137, 13.1141, 13.1144],
            grad_fn=<Unique2Backward0>)
11917
11918 masks_dr unique: tensor([-8.0592, -8.0506, -8.0299, ..., 13.1137, 13.1141, 13.1144],
            grad fn=<Unique2Backward0>)
11920 Epoch 31/499: 16%
                                 | 25/160 [04:02<21:27, 9.54s/it]print_dice: 0.
     5542935132980347, print_iou: 0.3834066689014435
11921 masks_dr unique: tensor([-7.5663, -7.5576, -7.5457, ..., 11.8979, 11.9030, 11.9073],
            grad_fn=<Unique2Backward0>)
11923 masks_dr unique: tensor([-7.5663, -7.5576, -7.5457, ..., 11.8979, 11.9030, 11.9073],
            grad fn=<Unique2Backward0>)
11925 print_dice: 0.48598819971084595,
                                       print_iou: 0.32099366188049316
11926 Epoch 31/499: 16%
                             | 26/160 [04:11<21:15, 9.52s/it]masks_dr unique: tensor([-7.
     5060, -7.5057, -7.4967, ..., 12.8293, 12.8298, 12.8298],
11927
            grad_fn=<Unique2Backward0>)
11928 masks_dr unique: tensor([-7.5060, -7.5057, -7.4967, ..., 12.8293, 12.8298, 12.8298],
            grad_fn=<Unique2Backward0>)
11929
11930 Epoch 31/499: 17%
                                 | 27/160 [04:21<21:04, 9.51s/it]print dice: 0.
     4749508500099182, print_iou: 0.3114331364631653
11931 masks_dr unique: tensor([-7.5638, -7.5633, -7.5568, ..., 12.1009, 12.1012, 12.1063],
            grad fn=<Unique2Backward0>)
11932
11933 masks dr unique: tensor([-7.5638, -7.5633, -7.5568, ..., 12.1009, 12.1012, 12.1063],
11934
            grad_fn=<Unique2Backward0>)
                                 28/160 [04:30<21:01, 9.55s/it]print dice: 0.431252121925354
11935 Epoch 31/499: 18%
         print_iou: 0.2749021053314209
11936 masks_dr unique: tensor([-7.5368, -7.5257, -7.5166, ..., 12.4513, 12.4526, 12.4560],
            grad_fn=<Unique2Backward0>)
11938 masks_dr unique: tensor([-7.5368, -7.5257, -7.5166, ..., 12.4513, 12.4526, 12.4560],
            grad_fn=<Unique2Backward0>)
11939
11940 Epoch 31/499: 18%
                                29/160 [04:40<20:49, 9.54s/it]print_dice: 0.
     48981428146362305, print iou: 0.32434043288230896
11941 masks_dr unique: tensor([-7.8745, -7.8609, -7.8596, ..., 12.4176, 12.4197, 12.4210],
11942
            grad_fn=<Unique2Backward0>)
11943 masks_dr unique: tensor([-7.8745, -7.8609, -7.8596, ..., 12.4176, 12.4197, 12.4210],
            grad_fn=<Unique2Backward0>)
                                | 30/160 [04:49<20:38, 9.53s/it]print_dice: 0.
11945 Epoch 31/499: 19%
     5687193870544434, print_iou: 0.3973500430583954
11946 masks_dr unique: tensor([-7.6980, -7.6870, -7.6751, ..., 12.1592, 12.1663, 12.1715],
            grad_fn=<Unique2Backward0>)
11947
11948 masks_dr unique: tensor([-7.6980, -7.6870, -7.6751, ..., 12.1592, 12.1663, 12.1715],
            grad fn=<Unique2Backward0>)
11950 print_dice: 0.5041378140449524, print_iou: 0.33702152967453003
                            | 31/160 [04:59<20:33, 9.56s/it]masks_dr unique: tensor([-7.
11951 Epoch 31/499: 19%
     8468, -7.8427, -7.8304, ..., 13.4096, 13.4101, 13.4151],
11952
            grad fn=<Unique2Backward0>)
11953 masks_dr unique: tensor([-7.8468, -7.8427, -7.8304, ..., 13.4096, 13.4101, 13.4151],
11954
            grad_fn=<Unique2Backward0>)
11955 Epoch 31/499: 20%
                                 | 32/160 [05:08<20:19, 9.53s/it]print_dice: 0.
     5501739382743835,
                       print_iou: 0.379475861787796
11956 masks_dr unique: tensor([-8.2678, -8.2660, -8.2518, ..., 13.6063, 13.6087, 13.6089],
11957
            grad_fn=<Unique2Backward0>)
11958 masks_dr unique: tensor([-8.2678, -8.2660, -8.2518, ..., 13.6063, 13.6087, 13.6089],
            grad_fn=<Unique2Backward0>)
11959
11960 Epoch 31/499: 21%
                                                        9.47s/it]print dice: 0.
                                 33/160 [05:18<20:03,
     5684426426887512, print_iou: 0.3970798850059509
11961 masks_dr unique: tensor([-7.7649, -7.7505, -7.7419, ..., 12.0385, 12.0442, 12.0489],
11962
            grad_fn=<Unique2Backward0>)
11963 masks_dr unique: tensor([-7.7649, -7.7505, -7.7419, ..., 12.0385, 12.0442, 12.0489],
11964
            grad_fn=<Unique2Backward0>)
11965 print dice: 0.4642595648765564,
                                      print_iou: 0.30230340361595154
```

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11966 Epoch 31/499: 21% 34/160 [05:27<20:01, 9.54s/it]masks dr unique: tensor([-7.
     9109, -7.9002, -7.8759, ..., 11.9574, 11.9577, 11.9606],
            grad fn=<Unique2Backward0>)
11968 masks_dr unique: tensor([-7.9109, -7.9002, -7.8759, ..., 11.9574, 11.9577, 11.9606],
            grad_fn=<Unique2Backward0>)
11970 print dice: 0.5063607692718506, print iou: 0.33901140093803406
                             | 35/160 [05:37<19:57, 9.58s/it]masks dr unique: tensor([-7.
11971 Epoch 31/499: 22%
     6894, -7.6790, -7.6649, ..., 12.4641, 12.4657, 12.4710],
            grad_fn=<Unique2Backward0>)
11972
11973 masks_dr unique: tensor([-7.6894, -7.6790, -7.6649, ..., 12.4641, 12.4657, 12.4710],
            grad fn=<Unique2Backward0>)
11975 Epoch 31/499: 22%
                                 | 36/160 [05:47<19:49, 9.59s/it]print_dice: 0.
     44426050782203674, print_iou: 0.28556227684020996
11976 masks dr unique: tensor([-7.9098, -7.8991, -7.8748, ..., 11.9570, 11.9573, 11.9602],
            grad fn=<Unique2Backward0>)
11977
11978 masks_dr unique: tensor([-7.9098, -7.8991, -7.8748, ..., 11.9570, 11.9573, 11.9602],
            grad_fn=<Unique2Backward0>)
11980 Epoch 31/499: 23%
                                | 37/160 [05:56<19:42, 9.61s/it]print_dice: 0.
     5171021223068237, print_iou: 0.3487105369567871
11981 masks_dr unique: tensor([-7.9868, -7.9786, -7.9594, ..., 13.3258, 13.3284, 13.3285],
11982
            grad_fn=<Unique2Backward0>)
11983 masks_dr unique: tensor([-7.9868, -7.9786, -7.9594, ..., 13.3258, 13.3284, 13.3285],
11984
            grad fn=<Unique2Backward0>)
11985 Epoch 31/499: 24%
                                | 38/160 [06:06<19:25, 9.55s/it]print_dice: 0.
     4950326085090637, print_iou: 0.32893243432044983
11986 masks_dr unique: tensor([-8.2003, -8.1860, -8.1748, ..., 13.2855, 13.2883, 13.2921],
            grad fn=<Unique2Backward0>)
11988 masks_dr unique: tensor([-8.2003, -8.1860, -8.1748, ..., 13.2855, 13.2883, 13.2921],
            grad_fn=<Unique2Backward0>)
11989
11990 Epoch 31/499: 24%
                                 | 39/160 [06:15<19:20, 9.59s/it]print_dice: 0.
     5699135661125183, print iou: 0.39851683378219604
11991 masks_dr unique: tensor([-7.8518, -7.8372, -7.8282, ..., 11.8942, 11.9012, 11.9045],
            grad fn=<Unique2Backward0>)
11993 masks_dr unique: tensor([-7.8518, -7.8372, -7.8282, ..., 11.8942, 11.9012, 11.9045],
11994
            grad_fn=<Unique2Backward0>)
11995 print_dice: 0.5512092709541321, print_iou: 0.3804616332054138
11996 Epoch 31/499: 25% 40/160 [06:25<19:06, 9.55s/it]masks_dr unique: tensor([-7.
     6630, -7.6477, -7.6428, ..., 12.3867, 12.3882, 12.3900],
11997
            grad_fn=<Unique2Backward0>)
11998 masks_dr unique: tensor([-7.6630, -7.6477, -7.6428, ..., 12.3867, 12.3882, 12.3900],
            grad fn=<Unique2Backward0>)
11999
12000 Epoch 31/499: 26%
                                 41/160 [06:34<18:57, 9.56s/it]print_dice: 0.
     6218979954719543, print_iou: 0.4512713849544525
12001 masks_dr unique: tensor([-7.9203, -7.9090, -7.9017, ..., 12.4817, 12.4851, 12.4877],
            grad_fn=<Unique2Backward0>)
12002
12003 masks_dr unique: tensor([-7.9203, -7.9090, -7.9017, ..., 12.4817, 12.4851, 12.4877],
            grad_fn=<Unique2Backward0>)
12005 print_dice: 0.5984238982200623, print_iou: 0.42696496844291687
9472, -7.9367, -7.9233, ..., 12.7880, 12.7917, 12.7938],
12007
            grad_fn=<Unique2Backward0>)
12008 masks_dr unique: tensor([-7.9472, -7.9367, -7.9233, ..., 12.7880, 12.7917, 12.7938],
12009
            grad_fn=<Unique2Backward0>)
12010 Epoch 31/499: 27%
                                 | 43/160 [06:54<18:44,
                                                        9.61s/it]print_dice: 0.
     42241209745407104, print_iou: 0.26775819063186646
12011 masks_dr unique: tensor([-7.9121, -7.9014, -7.8770, ..., 11.9610, 11.9612, 11.9642],
            grad_fn=<Unique2Backward0>)
12012
12013 masks_dr unique: tensor([-7.9121, -7.9014, -7.8770, ..., 11.9610, 11.9612, 11.9642],
            grad_fn=<Unique2Backward0>)
12015 Epoch 31/499: 28%
                                 44/160 [07:03<18:33,
                                                        9.60s/it]print_dice: 0.
     5413795113563538, print_iou: 0.37115857005119324
12016 masks_dr unique: tensor([-7.5749, -7.5637, -7.5564,
                                                        ..., 12.5572, 12.5586, 12.5631],
            grad_fn=<Unique2Backward0>)
12017
12018 masks_dr unique: tensor([-7.5749, -7.5637, -7.5564,
                                                        ..., 12.5572, 12.5586, 12.5631],
            grad_fn=<Unique2Backward0>)
12019
12020 Epoch 31/499: 28%
                                 45/160 [07:13<18:24,
                                                        9.61s/it|print_dice: 0.
                        print iou: 0.28197482228279114
     4399069547653198,
12021 masks_dr unique: tensor([-8.0272, -8.0195, -8.0098, ..., 12.7760, 12.7788, 12.7797],
            grad fn=<Unique2Backward0>)
12022
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12023 masks dr unique: tensor([-8.0272, -8.0195, -8.0098, ..., 12.7760, 12.7788, 12.7797],
            grad fn=<Unique2Backward0>)
12025 print dice: 0.5593944191932678, print iou: 0.38830503821372986
12026 Epoch 31/499: 29%| | 46/160 [07:22<18:10, 9.57s/it]masks_dr unique: tensor([-7. 9009, -7.9004, -7.8897, ..., 13.4111, 13.4119, 13.4126],
12027
            grad_fn=<Unique2Backward0>)
12028 masks dr unique: tensor([-7.9009, -7.9004, -7.8897, ..., 13.4111, 13.4119, 13.4126],
            grad_fn=<Unique2Backward0>)
12029
12030 Epoch 31/499: 29%
                              47/160 [07:32<18:06, 9.62s/it]print_dice: 0.
     43762269616127014, print_iou: 0.2801005244255066
12031 masks_dr unique: tensor([-7.8211, -7.8052, -7.7896, ..., 12.0199, 12.0257, 12.0302],
            grad_fn=<Unique2Backward0>)
12032
12033 masks dr unique: tensor([-7.8211, -7.8052, -7.7896, ..., 12.0199, 12.0257, 12.0302]
            grad fn=<Unique2Backward0>)
12035 print_dice: 0.5310730934143066.
                                     print_iou: 0.3615381419658661
12036 Epoch 31/499: 30% 48/160 [07:41<17:45, 9.51s/it] masks_dr unique: tensor([-8.
     0310, -8.0300, -8.0\overline{281}, ..., 13.3630, 13.3659, 13.3662],
            grad_fn=<Unique2Backward0>)
12037
12038 masks_dr unique: tensor([-8.0310, -8.0300, -8.0281, ..., 13.3630, 13.3659, 13.3662],
            grad fn=<Unique2Backward0>)
12040 print_dice: 0.5458765625953674, print_iou: 0.37539902329444885
12041 Epoch 31/499: 31%
                             | 49/160 [07:51<17:37, 9.52s/it]masks_dr unique: tensor([-7.
     8701, -7.8612, -7.8553, ..., 12.1359, 12.1384, 12.1386],
12042
            grad_fn=<Unique2Backward0>)
12043 masks dr unique: tensor([-7.8701, -7.8612, -7.8553, ..., 12.1359, 12.1384, 12.1386],
12044
            grad_fn=<Unique2Backward0>)
12045 print_dice: 0.44505220651626587, print_iou: 0.2862168252468109
12046 Epoch 31/499: 31% | 50/160 [08:01<17:31, 9.56s/it] masks_dr unique: tensor([-7.
     9139, -7.9033, -7.8789, ..., 11.9628, 11.9631, 11.9660],
12047
            grad fn=<Unique2Backward0>)
12048 masks_dr unique: tensor([-7.9139, -7.9033, -7.8789, ..., 11.9628, 11.9631, 11.9660],
12049
            grad_fn=<Unique2Backward0>)
12050 print_dice: 0.5598876476287842, print_iou: 0.38878050446510315
12051 Epoch 31/499: 32%| | 51/160 [08:10<17:21, 9.55s/it]masks_dr unique: tensor([-8.
     1379, -8.1281, -8.1095, ..., 13.3420, 13.3426, 13.3428],
12052
            grad_fn=<Unique2Backward0>)
12053 masks_dr unique: tensor([-8.1379, -8.1281, -8.1095, ..., 13.3420, 13.3426, 13.3428],
            grad_fn=<Unique2Backward0>)
12054
12055 Epoch 31/499: 32%
                               | 52/160 [08:19<17:01, 9.46s/it]print_dice: 0.
      5969269871711731, print iou: 0.42544257640838623
12056 masks_dr unique: tensor([-8.0993, -8.0937, -8.0874, ..., 12.0259, 12.0316, 12.0367],
            grad_fn=<Unique2Backward0>)
12058 masks_dr unique: tensor([-8.0993, -8.0937, -8.0874, ..., 12.0259, 12.0316, 12.0367],
            grad fn=<Unique2Backward0>)
12060 print_dice: 0.5012475848197937, print_iou: 0.33444318175315857
12061 Epoch 31/499: 33% 53/160 [08:29<16:55, 9.49s/it] masks_dr unique: tensor([-7.
     9143, -7.9037, -7.8794, ..., 11.9598, 11.9609, 11.9634],
12062
            grad_fn=<Unique2Backward0>)
12063 masks_dr unique: tensor([-7.9143, -7.9037, -7.8794, ..., 11.9598, 11.9609, 11.9634],
            grad fn=<Unique2Backward0>)
12065 print dice: 0.5614020824432373, print iou: 0.3902425467967987
12066 Epoch 31/499: 34%
                                 54/160 [08:38<16:47, 9.50s/it]masks_dr unique: tensor([-7.
      6695, -7.6689, -7.6575, ..., 13.3999, 13.4001, 13.4046],
12067
            grad fn=<Unique2Backward0>)
12068 masks_dr unique: tensor([-7.6695, -7.6689, -7.6575, ..., 13.3999, 13.4001, 13.4046],
12069
            grad_fn=<Unique2Backward0>)
12070 Epoch 31/499: 34%
                                  | 55/160 [08:48<16:42, 9.55s/it]print_dice: 0.
      6137467622756958,
                        print_iou: 0.442737877368927
12071 masks_dr unique: tensor([-7.9664, -7.9659, -7.9553, ..., 13.4619, 13.4632, 13.4651],
12072
            grad_fn=<Unique2Backward0>)
12073 masks dr unique: tensor([-7.9664, -7.9659, -7.9553, ..., 13.4619, 13.4632, 13.4651],
            grad_fn=<Unique2Backward0>)
12074
12075 print dice: 0.5130409002304077,
                                     print_iou: 0.3450269103050232
12076 Epoch 31/499: 35%
                                  | 56/160 [08:57<16:26, 9.48s/it]masks_dr unique: tensor([-7.
      8515, -7.8493, -7.8346, ..., 12.9017, 12.9050, 12.9068],
12077
            grad_fn=<Unique2Backward0>)
12078 masks_dr unique: tensor([-7.8515, -7.8493, -7.8346, ..., 12.9017, 12.9050, 12.9068],
            grad_fn=<Unique2Backward0>)
12079
12080 Epoch 31/499: 36%
                                  57/160 [09:07<16:16, 9.48s/it]print dice: 0.
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print_iou: 0.26334306597709656
12080 4168987572193146,
12081 masks_dr unique: tensor([-7.8377, -7.8319, -7.8191, ..., 12.3135, 12.3187, 12.3238],
            grad_fn=<Unique2Backward0>)
12083 masks_dr unique: tensor([-7.8377, -7.8319, -7.8191, ..., 12.3135, 12.3187, 12.3238],
12084
            grad_fn=<Unique2Backward0>)
                               | 58/160 [09:16<16:05, 9.46s/it]print_dice: 0.
12085 Epoch 31/499: 36%
     4630306661128998, print iou: 0.30126214027404785
12086 masks_dr unique: tensor([-7.5684, -7.5626, -7.5568, ..., 13.1272, 13.1274, 13.1283],
            grad_fn=<Unique2Backward0>)
12087
12088 masks_dr unique: tensor([-7.5684, -7.5626, -7.5568, ..., 13.1272, 13.1274, 13.1283],
            grad fn=<Unique2Backward0>)
12089
12090 print_dice: 0.5134682655334473, print_iou: 0.34541359543800354
12092
            grad_fn=<Unique2Backward0>)
12093 masks_dr unique: tensor([-7.8127, -7.7992, -7.7924, ..., 12.4704, 12.4763, 12.4816],
            grad_fn=<Unique2Backward0>)
12095 print_dice: 0.5342233180999756, print_iou: 0.36446431279182434
12096 Epoch 31/499: 38% 60/160 [09:35<15:51, 9.52s/it] masks_dr unique: tensor([-7.
     9183, -7.9074, -7.8833, ..., 11.9608, 11.9617, 11.9643],
            grad_fn=<Unique2Backward0>)
12097
12098 masks_dr unique: tensor([-7.9183, -7.9074, -7.8833, ..., 11.9608, 11.9617, 11.9643],
12099
            grad fn=<Unique2Backward0>)
                                61/160 [09:45<15:43, 9.53s/it]print dice: 0.
12100 Epoch 31/499: 38%
     5271561145782471, print iou: 0.3579171597957611
12101 masks_dr unique: tensor([-7.7622, -7.7563, -7.7455, ..., 13.1924, 13.1946, 13.1953],
            grad fn=<Unique2Backward0>)
12103 masks_dr unique: tensor([-7.7622, -7.7563, -7.7455, ..., 13.1924, 13.1946, 13.1953],
            grad_fn=<Unique2Backward0>)
12104
12105 Epoch 31/499: 39%
                                62/160 [09:54<15:32, 9.51s/it]print dice: 0.
     5473668575286865, print_iou: 0.37681010365486145
12106 masks_dr unique: tensor([-7.6311, -7.6284, -7.6061, ..., 12.9218, 12.9241, 12.9248],
            grad_fn=<Unique2Backward0>)
12108 masks_dr unique: tensor([-7.6311, -7.6284, -7.6061, ..., 12.9218, 12.9241, 12.9248],
12109
            grad_fn=<Unique2Backward0>)
12110 Epoch 31/499: 39%
                                63/160 [10:04<15:19,
                                                        9.48s/it]print_dice: 0.
     46752721071243286, print_iou: 0.30508026480674744
12111 masks_dr unique: tensor([-7.9195, -7.9086, -7.8845, ..., 11.9671, 11.9679, 11.9705],
            grad_fn=<Unique2Backward0>)
12112
12113 masks_dr unique: tensor([-7.9195, -7.9086, -7.8845, ..., 11.9671, 11.9679, 11.9705],
            grad_fn=<Unique2Backward0>)
12114
12115 Epoch 31/499: 40%
                                 | 64/160 [10:13<15:12, 9.51s/it]print_dice: 0.
     6014423370361328, print_iou: 0.4300447106361389
12116 masks_dr unique: tensor([-7.9205, -7.9096, -7.8855, ..., 11.9656, 11.9663, 11.9690],
12117
            grad_fn=<Unique2Backward0>)
12118 masks_dr unique: tensor([-7.9205, -7.9096, -7.8855, ..., 11.9656, 11.9663, 11.9690],
            grad_fn=<Unique2Backward0>)
12120 Epoch 31/499: 41% 65/160 [10:23<15:06, 9.54s/it]print_dice: 0.
     5566112995147705, print_iou: 0.3856281340122223
12121 masks_dr unique: tensor([-7.9271, -7.9147, -7.9019, ..., 12.4362, 12.4428, 12.4468],
12122
            grad_fn=<Unique2Backward0>)
12123 masks_dr unique: tensor([-7.9271, -7.9147, -7.9019, ..., 12.4362, 12.4428, 12.4468],
12124
            grad_fn=<Unique2Backward0>)
12125 Epoch 31/499: 41% 66/160 [10:33<14:55, 9.52s/it]print_dice: 0.
     5486770868301392, print_iou: 0.37805306911468506
12126 masks_dr unique: tensor([-7.9182, -7.9073, -7.8832, ..., 11.9643, 11.9650, 11.9677],
            grad_fn=<Unique2Backward0>)
12127
12128 masks_dr unique: tensor([-7.9182, -7.9073, -7.8832, ..., 11.9643, 11.9650, 11.9677],
            grad fn=<Unique2Backward0>)
                                 | 67/160 [10:42<14:45, 9.52s/it]print_dice: 0.
12130 Epoch 31/499: 42%
     5279802083969116, print_iou: 0.35867738723754883
12131 masks_dr unique: tensor([-7.8530, -7.8496, -7.8373, ..., 13.3427, 13.3436, 13.3458],
            grad fn=<Unique2Backward0>)
12132
12133 masks_dr unique: tensor([-7.8530, -7.8496, -7.8373, ..., 13.3427, 13.3436, 13.3458],
            grad_fn=<Unique2Backward0>)
12134
12135 print_dice: 0.5381062030792236,
                                      print_iou: 0.36808842420578003
                                 | 68/160 [10:52<14:40, 9.58s/it]masks dr unique: tensor([-7.
12136 Epoch 31/499: 42%
     9179, -7.9072, -7.8829, ..., 11.9638, 11.9638, 11.9669],
12137
            grad_fn=<Unique2Backward0>)
```

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12138 masks_dr unique: tensor([-7.9179, -7.9072, -7.8829, ..., 11.9638, 11.9638, 11.9669],
            grad fn=<Unique2Backward0>)
12139
12140 Epoch 31/499: 43%
                                 | 69/160 [11:02<14:41, 9.69s/it]print dice: 0.
     4920364320278168, print_iou: 0.3262919783592224
12141 masks_dr unique: tensor([-7.9662, -7.9657, -7.9641, ..., 13.4436, 13.4454, 13.4463],
            grad_fn=<Unique2Backward0>)
12143 masks_dr unique: tensor([-7.9662, -7.9657, -7.9641, ..., 13.4436, 13.4454, 13.4463],
            grad_fn=<Unique2Backward0>)
12144
12145 Epoch 31/499: 44%
                              | 70/160 [11:11<14:27, 9.64s/it]print_dice: 0.
     5685731172561646, print_iou: 0.39720726013183594
12146 masks_dr unique: tensor([-7.7676, -7.7601, -7.7534, ..., 12.2620, 12.2674, 12.2729],
            grad_fn=<Unique2Backward0>)
12147
12148 masks_dr unique: tensor([-7.7676, -7.7601, -7.7534, ..., 12.2620, 12.2674, 12.2729],
            grad fn=<Unique2Backward0>)
12150 print_dice: 0.48932182788848877, print_iou: 0.3239087164402008
12151 Epoch 31/499: 44%
     9180, -7.9074, -7.8831, ..., 11.9670, 11.9675, 11.9704],
            grad_fn=<Unique2Backward0>)
12152
12153 masks_dr unique: tensor([-7.9180, -7.9074, -7.8831, ..., 11.9670, 11.9675, 11.9704],
            grad_fn=<Unique2Backward0>)
12155 print_dice: 0.5938351154327393, print_iou: 0.4223082959651947
12156 Epoch 31/499: 45%
                                | 72/160 [11:30<14:02, 9.57s/it]masks_dr unique: tensor([-7.
     4673, -7.4645, -7.4535, ..., 12.0640, 12.0710, 12.0763],
12157
            grad_fn=<Unique2Backward0>)
12158 masks_dr unique: tensor([-7.4673, -7.4645, -7.4535, ..., 12.0640, 12.0710, 12.0763],
            grad fn=<Unique2Backward0>)
12159
                                 | 73/160 [11:40<13:53, 9.59s/it]print dice: 0.
12160 Epoch 31/499: 46%
     5524194836616516, print_iou: 0.3816157281398773
12161 masks dr unique: tensor([-7.9171, -7.9066, -7.8821, ..., 11.9653, 11.9659, 11.9688],
            grad fn=<Unique2Backward0>)
12162
12163 masks dr unique: tensor([-7.9171, -7.9066, -7.8821, ..., 11.9653, 11.9659, 11.9688],
12164
            grad_fn=<Unique2Backward0>)
12165 Epoch 31/499: 46%
                                | 74/160 [11:49<13:44, 9.59s/it]print_dice: 0.
     4749724566936493, print iou: 0.3114517331123352
12166 masks_dr unique: tensor([-7.7110, -7.7031, -7.6916, ..., 12.1563, 12.1571, 12.1604],
12167
            grad_fn=<Unique2Backward0>)
12168 masks_dr unique: tensor([-7.7110, -7.7031, -7.6916, ..., 12.1563, 12.1571, 12.1604],
            grad_fn=<Unique2Backward0>)
12169
12170 Epoch 31/499: 47%
                              | 75/160 [11:59<13:38, 9.63s/it]print_dice: 0.
     5624951124191284, print iou: 0.39129963517189026
12171 masks_dr unique: tensor([-7.9257, -7.9155, -7.9083, ..., 13.3206, 13.3207, 13.3224],
            grad_fn=<Unique2Backward0>)
12172
12173 masks_dr unique: tensor([-7.9257, -7.9155, -7.9083, ..., 13.3206, 13.3207, 13.3224],
            grad_fn=<Unique2Backward0>)
12175 Epoch 31/499: 48%
                                76/160 [12:09<13:25, 9.59s/it]print_dice: 0.
     5443227291107178, print_iou: 0.3739308714866638
12176 masks_dr unique: tensor([-7.9997, -7.9943, -7.9916, ..., 13.3592, 13.3620, 13.3627],
            grad_fn=<Unique2Backward0>)
12177
12178 masks_dr unique: tensor([-7.9997, -7.9943, -7.9916, ..., 13.3592, 13.3620, 13.3627],
            grad_fn=<Unique2Backward0>)
12179
12180 print dice: 0.5233120918273926, print iou: 0.35438233613967896
12181 Epoch 31/499: 48% 77/160 [12:18<13:16, 9.60s/it] masks_dr unique: tensor([-7.
     9337, -7.9221, -7.9130, ..., 13.2323, 13.2341, 13.2349],
            grad_fn=<Unique2Backward0>)
12183 masks_dr unique: tensor([-7.9337, -7.9221, -7.9130, ..., 13.2323, 13.2341, 13.2349],
12184
            grad_fn=<Unique2Backward0>)
12185 Epoch 31/499: 49%
                                 | 78/160 [12:28<13:08,
                                                        9.61s/it]print_dice: 0.
     5836852192878723,
                        print_iou: 0.4121154844760895
12186 masks_dr unique: tensor([-7.9209, -7.9105, -7.8858,
                                                        ..., 11.9673, 11.9682, 11.9709],
12187
            grad_fn=<Unique2Backward0>)
12188 masks_dr unique: tensor([-7.9209, -7.9105, -7.8858,
                                                        ..., 11.9673, 11.9682, 11.9709],
            grad_fn=<Unique2Backward0>)
12189
12190 Epoch 31/499: 49%
                                 79/160 [12:37<12:55,
                                                        9.57s/it]print dice: 0.
     4849996268749237, print_iou: 0.32013168931007385
12191 masks_dr unique: tensor([-7.9201, -7.9096, -7.8850,
                                                        ..., 11.9668, 11.9676, 11.9704],
12192
            grad_fn=<Unique2Backward0>)
12193 masks_dr unique: tensor([-7.9201, -7.9096, -7.8850,
                                                        ..., 11.9668, 11.9676, 11.9704],
            grad fn=<Unique2Backward0>)
12194
12195 Epoch 31/499: 50%
                                 80/160 [12:47<12:44,
                                                        9.56s/it]print_dice: 0.
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print_iou: 0.31781819462776184
12195 4823399782180786,
12196 masks_dr unique: tensor([-7.8124, -7.8080, -7.7996, ..., 13.2416, 13.2427, 13.2444],
            grad_fn=<Unique2Backward0>)
12198 masks_dr unique: tensor([-7.8124, -7.8080, -7.7996, ..., 13.2416, 13.2427, 13.2444],
12199
            grad_fn=<Unique2Backward0>)
                                81/160 [12:56<12:34, 9.55s/it]print dice: 0.
12200 Epoch 31/499: 51%
     5058077573776245, print_iou: 0.3385158181190491
12201 masks_dr unique: tensor([-8.0987, -8.0875, -8.0759, ..., 13.0258, 13.0283, 13.0289],
            grad_fn=<Unique2Backward0>)
12202
12203 masks_dr unique: tensor([-8.0987, -8.0875, -8.0759, ..., 13.0258, 13.0283, 13.0289],
            grad_fn=<Unique2Backward0>)
12204
12205 Epoch 31/499: 51%
                                 | 82/160 [13:06<12:20, 9.50s/it]print_dice: 0.
     5018736124038696, print_iou: 0.3350008726119995
12206 masks_dr unique: tensor([-7.9241, -7.9136, -7.8890, ..., 11.9719, 11.9727, 11.9755],
            grad_fn=<Unique2Backward0>)
12207
12208 masks_dr unique: tensor([-7.9241, -7.9136, -7.8890, ..., 11.9719, 11.9727, 11.9755],
            grad_fn=<Unique2Backward0>)
12210 Epoch 31/499: 52%
                                 | 83/160 [13:15<12:12, 9.51s/it]print_dice: 0.
     6139189004898071,
                       print_iou: 0.44291698932647705
12211 masks_dr unique: tensor([-7.9229, -7.9125, -7.8878, ..., 11.9701, 11.9709, 11.9737],
12212
            grad_fn=<Unique2Backward0>)
12213 masks_dr unique: tensor([-7.9229, -7.9125, -7.8878, ..., 11.9701, 11.9709, 11.9737],
12214
            grad_fn=<Unique2Backward0>)
                                 84/160 [13:25<12:02, 9.50s/it]print dice: 0.
12215 Epoch 31/499: 52%
     5428557991981506, print_iou: 0.37254777550697327
12216 masks_dr unique: tensor([-7.6949, -7.6915, -7.6766, ..., 13.3697, 13.3699, 13.3718],
            grad fn=<Unique2Backward0>)
12217
12218 masks_dr unique: tensor([-7.6949, -7.6915, -7.6766, ..., 13.3697, 13.3699, 13.3718],
            grad_fn=<Unique2Backward0>)
12219
12220 Epoch 31/499: 53%
                                  85/160 [13:34<11:51, 9.49s/it]print_dice: 0.579914927482605
         print_iou: 0.4083663523197174
12221 masks_dr unique: tensor([-7.4183, -7.4105, -7.4042, ..., 12.0068, 12.0136, 12.0186],
            grad_fn=<Unique2Backward0>)
12223 masks_dr unique: tensor([-7.4183, -7.4105, -7.4042, ..., 12.0068, 12.0136, 12.0186],
12224
            grad_fn=<Unique2Backward0>)
12225 Epoch 31/499: 54%
                                86/160 [13:44<11:40, 9.47s/it]print_dice: 0.
     4971495270729065, print_iou: 0.33080437779426575
12226 masks_dr unique: tensor([-7.7065, -7.6904, -7.6802, ..., 12.2527, 12.2585, 12.2644],
            grad_fn=<Unique2Backward0>)
12227
12228 masks_dr unique: tensor([-7.7065, -7.6904, -7.6802, ..., 12.2527, 12.2585, 12.2644],
12229
            grad_fn=<Unique2Backward0>)
12230 Epoch 31/499: 54%
                                 87/160 [13:53<11:33, 9.49s/it]print_dice: 0.
     5367355942726135, print_iou: 0.3668069839477539
12231 masks_dr unique: tensor([-7.6174, -7.5964, -7.5922, ..., 11.9650, 11.9665, 11.9686],
12232
            grad_fn=<Unique2Backward0>)
12233 masks_dr unique: tensor([-7.6174, -7.5964, -7.5922, ..., 11.9650, 11.9665, 11.9686],
            grad_fn=<Unique2Backward0>)
12235 print_dice: 0.4976120889186859, print_iou: 0.3312141001224518
12236 Epoch 31/499: 55%| | 88/160 [14:03<11:24, 9.50s/it]masks_dr unique: tensor([-7.
     9232, -7.9128, -7.8882, ..., 11.9716, 11.9728, 11.9754],
12237
            grad_fn=<Unique2Backward0>)
12238 masks_dr unique: tensor([-7.9232, -7.9128, -7.8882, ..., 11.9716, 11.9728, 11.9754],
12239
            grad_fn=<Unique2Backward0>)
12240 print_dice: 0.5823793411254883, print_iou: 0.41081464290618896
12241 Epoch 31/499: 56%| | 89/160 [14:12<11:16, 9.53s/it]masks_dr unique: tensor([-8.
     1421, -8.1320, -8.1121, ..., 13.1260, 13.1283, 13.1284],
            grad_fn=<Unique2Backward0>)
12242
12243 masks_dr unique: tensor([-8.1421, -8.1320, -8.1121, ..., 13.1260, 13.1283, 13.1284],
            grad_fn=<Unique2Backward0>)
                                  90/160 [14:22<11:02, 9.47s/it]print_dice: 0.588361382484436
12245 Epoch 31/499: 56%
         print_iou: 0.41679319739341736
12246 masks_dr unique: tensor([-7.9713, -7.9503, -7.9466,
                                                        ..., 12.6537, 12.6603, 12.6650],
            grad_fn=<Unique2Backward0>)
12247
12248 masks_dr unique: tensor([-7.9713, -7.9503, -7.9466,
                                                         ..., 12.6537, 12.6603, 12.6650],
            grad_fn=<Unique2Backward0>)
12249
12250 Epoch 31/499: 57%
                                  91/160 [14:31<10:51,
                                                         9.44s/it]print dice: 0.
                          print iou: 0.31069642305374146
     47409364581108093,
12251 masks_dr unique: tensor([-8.1046, -8.0928, -8.0838,
                                                        ..., 13.2119, 13.2129, 13.2157],
            grad fn=<Unique2Backward0>)
12252
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12253 masks dr unique: tensor([-8.1046, -8.0928, -8.0838, ..., 13.2119, 13.2129, 13.2157],
            grad_fn=<Unique2Backward0>)
12254
12255 Epoch 31/499: 57%
                               92/160 [14:41<10:45, 9.49s/it]print dice: 0.
     6017875075340271, print_iou: 0.43039777874946594
12256 masks_dr unique: tensor([-7.9248, -7.9145, -7.8898, ..., 11.9734, 11.9745, 11.9772],
            grad fn=<Unique2Backward0>)
12258 masks_dr unique: tensor([-7.9248, -7.9145, -7.8898, ..., 11.9734, 11.9745, 11.9772],
            grad_fn=<Unique2Backward0>)
12259
12260 Epoch 31/499: 58% | 93/160 [14:50<10:35, 9.49s/it]print_dice: 0.
     5177260041236877, print_iou: 0.34927818179130554
12261 masks_dr unique: tensor([-7.9245, -7.9142, -7.8895, ..., 11.9748, 11.9753, 11.9782],
            grad_fn=<Unique2Backward0>)
12262
12263 masks_dr unique: tensor([-7.9245, -7.9142, -7.8895, ..., 11.9748, 11.9753, 11.9782],
            grad fn=<Unique2Backward0>)
12265 Epoch 31/499: 59%
                                94/160 [15:00<10:27, 9.50s/it]print dice: 0.
     5954179763793945, print_iou: 0.4239111542701721
12266 masks_dr unique: tensor([-7.4092, -7.3955, -7.3853, ..., 12.5578, 12.5583, 12.5583],
            grad_fn=<Unique2Backward0>)
12268 masks_dr unique: tensor([-7.4092, -7.3955, -7.3853, ..., 12.5578, 12.5583, 12.5583],
            grad_fn=<Unique2Backward0>)
5656849145889282, print_iou: 0.39439377188682556
12271 masks dr unique: tensor([-7.9406, -7.9251, -7.9238, ..., 12.5167, 12.5226, 12.5282],
12272
            grad_fn=<Unique2Backward0>)
12273 masks dr unique: tensor([-7.9406, -7.9251, -7.9238, ..., 12.5167, 12.5226, 12.5282],
12274
            grad_fn=<Unique2Backward0>)
12275 print dice: 0.5610086917877197, print iou: 0.3898624777793884
12276 Epoch 31/499: 60% | 96/160 [15:19<10:07, 9.49s/it] masks_dr unique: tensor([-7.
     6950, -7.6938, -7.6851, ..., 13.3659, 13.3665, 13.3676],
12277
            grad fn=<Unique2Backward0>)
12278 masks_dr unique: tensor([-7.6950, -7.6938, -7.6851, ..., 13.3659, 13.3665, 13.3676],
12279
            grad_fn=<Unique2Backward0>)
12280 Epoch 31/499: 61%
                                97/160 [15:29<10:10, 9.70s/it]print_dice: 0.
     5629135370254517, print_iou: 0.3917046785354614
12281 masks_dr unique: tensor([-7.9252, -7.9150, -7.8903, ..., 11.9751, 11.9761, 11.9788],
12282
            grad_fn=<Unique2Backward0>)
12283 masks_dr unique: tensor([-7.9252, -7.9150, -7.8903, ..., 11.9751, 11.9761, 11.9788],
12284
            grad_fn=<Unique2Backward0>)
12285 print_dice: 0.5115607380867004, print_iou: 0.3436893820762634
12286 Epoch 31/499: 61%| | 98/160 [15:39<10:00, 9.69s/it]masks_dr unique: tensor([-7.
     4725, -7.4652, -7.4579, ..., 12.9562, 12.9570, 12.9576],
            grad_fn=<Unique2Backward0>)
12287
12288 masks_dr unique: tensor([-7.4725, -7.4652, -7.4579, ..., 12.9562, 12.9570, 12.9576],
            grad_fn=<Unique2Backward0>)
12290 print_dice: 0.5167347192764282,
                                    print_iou: 0.34837648272514343
12291 Epoch 31/499: 62% | 99/160 [15:48<09:49, 9.66s/it] masks_dr unique: tensor([-7.
     9045, -7.8937, -7.8893, ..., 12.5557, 12.5597, 12.5616],
12292
            grad_fn=<Unique2Backward0>)
12293 masks_dr unique: tensor([-7.9045, -7.8937, -7.8893, ..., 12.5557, 12.5597, 12.5616],
            grad fn=<Unique2Backward0>)
12295 print dice: 0.5415693521499634,
                                     print_iou: 0.37133705615997314
12296 Epoch 31/499: 62% | 100/160 [15:58<09:37, 9.63s/it] masks_dr unique: tensor([-7.
     9078, -7.8965, -7.8906, ..., 12.8624, 12.8641, 12.8653],
            grad_fn=<Unique2Backward0>)
12298 masks_dr unique: tensor([-7.9078, -7.8965, -7.8906, ..., 12.8624, 12.8641, 12.8653],
12299
            grad_fn=<Unique2Backward0>)
12300 Epoch 31/499: 63%
                                 | 101/160 [16:07<09:25, 9.58s/it]print_dice: 0.
     5368496179580688,
                        print_iou: 0.36691349744796753
                                 time: 9.5377 data: 0.0003
       [100/160] eta: 0:09:34
12301
12302 masks_dr unique: tensor([-7.7189, -7.7106, -7.7023, ..., 13.1009, 13.1012, 13.1028],
            grad_fn=<Unique2Backward0>)
12303
12304 masks_dr unique: tensor([-7.7189, -7.7106, -7.7023, ..., 13.1009, 13.1012, 13.1028],
            grad_fn=<Unique2Backward0>)
12305
12306 Epoch 31/499: 64%
                                 | 102/160 [16:17<09:14, 9.56s/it]print_dice: 0.
     6483462452888489, print iou: 0.47966885566711426
12307 masks_dr unique: tensor([-7.9212, -7.9111, -7.8863, ..., 11.9745, 11.9755, 11.9782],
            grad fn=<Unique2Backward0>)
12308
12309 masks dr unique: tensor([-7.9212, -7.9111, -7.8863, ..., 11.9745, 11.9755, 11.9782],
            grad_fn=<Unique2Backward0>)
12310
```

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12311 Epoch 31/499: 64% | 103/160 [16:26<09:07, 9.61s/it]print dice: 0.
     4775902330875397, print_iou: 0.31370675563812256
12312 masks dr unique: tensor([-7.5241, -7.5136, -7.5006, ..., 12.1368, 12.1396, 12.1435],
            grad fn=<Unique2Backward0>)
12313
12314 masks_dr unique: tensor([-7.5241, -7.5136, -7.5006, ..., 12.1368, 12.1396, 12.1435],
            grad_fn=<Unique2Backward0>)
12316 Epoch 31/499: 65%
                                 | 104/160 [16:36<08:55, 9.56s/it]print_dice: 0.
     5466340780258179, print_iou: 0.37611594796180725
12317 masks_dr unique: tensor([-7.9219, -7.9118, -7.8870, ..., 11.9753, 11.9755, 11.9785],
            grad fn=<Unique2Backward0>)
12318
12319 masks_dr unique: tensor([-7.9219, -7.9118, -7.8870, ..., 11.9753, 11.9755, 11.9785],
            grad fn=<Unique2Backward0>)
12320
12321 Epoch 31/499: 66% 105/160 [16:45<08:42, 9.50s/it]print_dice: 0.
     5806559920310974, print iou: 0.409101665019989
12322 masks_dr unique: tensor([-8.0994, -8.0906, -8.0748, ..., 13.0689, 13.0693, 13.0739],
            grad_fn=<Unique2Backward0>)
12324 masks dr unique: tensor([-8.0994, -8.0906, -8.0748, ..., 13.0689, 13.0693, 13.0739],
            grad_fn=<Unique2Backward0>)
12325
12326 Epoch 31/499: 66%
                                | 106/160 [16:55<08:36, 9.56s/it]print_dice: 0.
     5136469602584839, print_iou: 0.34557533264160156
12327 masks_dr unique: tensor([-7.8720, -7.8609, -7.8424, ..., 13.4467, 13.4481, 13.4521],
            grad_fn=<Unique2Backward0>)
12329 masks_dr unique: tensor([-7.8720, -7.8609, -7.8424, ..., 13.4467, 13.4481, 13.4521],
12330
            grad_fn=<Unique2Backward0>)
12331 print_dice: 0.5558557510375977, print_iou: 0.3849031925201416
12332 Epoch 31/499: 67% | 107/160 [17:05<08:29, 9.62s/it] masks_dr unique: tensor([-7.
     9195, -7.9095, -7.8846, ..., 11.9782, 11.9783, 11.9814],
            grad_fn=<Unique2Backward0>)
12333
12334 masks_dr unique: tensor([-7.9195, -7.9095, -7.8846, ..., 11.9782, 11.9783, 11.9814],
            grad fn=<Unique2Backward0>)
12335
12336 Epoch 31/499: 68%| | 108/160 [17:14<08:17, 9.57s/it]print_dice: 0.
     5509270429611206, print_iou: 0.38019275665283203
12337 masks_dr unique: tensor([-7.9184, -7.9084, -7.8836, ..., 11.9795, 11.9798, 11.9827],
12338
            grad fn=<Unique2Backward0>)
12339 masks_dr unique: tensor([-7.9184, -7.9084, -7.8836, ..., 11.9795, 11.9798, 11.9827],
            grad_fn=<Unique2Backward0>)
12341 Epoch 31/499: 68% | 109/160 [17:24<08:07, 9.56s/it]print_dice: 0.
     6153690814971924, print_iou: 0.4444282352924347
12342 masks_dr unique: tensor([-7.9173, -7.9073, -7.8825, ..., 11.9806, 11.9818, 11.9844],
            grad fn=<Unique2Backward0>)
12343
12344 masks_dr unique: tensor([-7.9173, -7.9073, -7.8825, ..., 11.9806, 11.9818, 11.9844],
            grad_fn=<Unique2Backward0>)
12346 print_dice: 0.5857675075531006, print_iou: 0.41419464349746704
12347 Epoch 31/499: 69% | 110/160 [17:33<07:56, 9.53s/it]masks_dr unique: tensor([-7.
     7680, -7.7615, -7.7408, ..., 12.4738, 12.4768, 12.4799],
            grad_fn=<Unique2Backward0>)
12349 masks_dr unique: tensor([-7.7680, -7.7615, -7.7408, ..., 12.4738, 12.4768, 12.4799],
            grad_fn=<Unique2Backward0>)
12350
12351 Epoch 31/499: 69% | 111/160 [17:43<07:48, 9.56s/it]print_dice: 0.
     515484094619751, print_iou: 0.34724053740501404
12352 masks_dr unique: tensor([-7.9142, -7.9042, -7.8794, ..., 11.9858, 11.9864, 11.9892],
            grad_fn=<Unique2Backward0>)
12353
12354 masks_dr unique: tensor([-7.9142, -7.9042, -7.8794, ..., 11.9858, 11.9864, 11.9892],
            grad_fn=<Unique2Backward0>)
12355
12356 Epoch 31/499: 70% | 112/160 [17:52<07:36, 9.52s/it]print_dice: 0.
     5201777219772339, print_iou: 0.35151365399360657
12357 masks_dr unique: tensor([-7.9150, -7.9049, -7.8801, ..., 11.9813, 11.9824, 11.9850],
            grad_fn=<Unique2Backward0>)
12358
12359 masks_dr unique: tensor([-7.9150, -7.9049, -7.8801, ..., 11.9813, 11.9824, 11.9850],
            grad fn=<Unique2Backward0>)
12360
12361 Epoch 31/499: 71%
                                 | 113/160 [18:02<07:25, 9.47s/it]print_dice: 0.
                       print_iou: 0.3648948669433594
     5346856713294983,
12362 masks_dr unique: tensor([-7.7661, -7.7643, -7.7615, ..., 12.2320, 12.2386, 12.2427],
12363
            grad fn=<Unique2Backward0>)
12364 masks_dr unique: tensor([-7.7661, -7.7643, -7.7615, ..., 12.2320, 12.2386, 12.2427],
            grad_fn=<Unique2Backward0>)
12365
12366 print dice: 0.49502021074295044,
                                      print_iou: 0.32892149686813354
12367 Epoch 31/499: 71% | 114/160 [18:11<07:13, 9.43s/it]masks_dr unique: tensor([-7.
     9144, -7.9043, -7.8795, ..., 11.9837, 11.9848, 11.9875],
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12368
            grad fn=<Unique2Backward0>)
12369 masks dr unique: tensor([-7.9144, -7.9043, -7.8795, ..., 11.9837, 11.9848, 11.9875],
            grad fn=<Unique2Backward0>)
12371 print_dice: 0.5641365647315979, print iou: 0.3928901255130768
12372 Epoch 31/499: 72% | 115/160 [18:21<07:08, 9.52s/it]masks_dr unique: tensor([-7.
     9148, -7.9048, -7.8799, ..., 11.9837, 11.9848, 11.9874],
            grad fn=<Unique2Backward0>)
12373
12374 masks_dr unique: tensor([-7.9148, -7.9048, -7.8799, ..., 11.9837, 11.9848, 11.9874],
            grad_fn=<Unique2Backward0>)
12375
12376 Epoch 31/499: 72% | 116/160 [18:30<07:00, 9.55s/it]print_dice: 0.
     5145736932754517, print_iou: 0.34641483426094055
12377 masks_dr unique: tensor([-7.9130, -7.9030, -7.8782, ..., 11.9837, 11.9848, 11.9874],
            grad fn=<Unique2Backward0>)
12378
12379 masks_dr unique: tensor([-7.9130, -7.9030, -7.8782, ..., 11.9837, 11.9848, 11.9874],
            grad fn=<Unique2Backward0>)
12380
12381 Epoch 31/499: 73% | 117/160 [18:40<06:49, 9.52s/it]print_dice: 0.
     5301975607872009, print_iou: 0.36072707176208496
12382 masks_dr unique: tensor([-7.7463, -7.7350, -7.7224, ..., 12.3793, 12.3855, 12.3897],
            grad_fn=<Unique2Backward0>)
12384 masks_dr unique: tensor([-7.7463, -7.7350, -7.7224, ..., 12.3793, 12.3855, 12.3897],
            grad_fn=<Unique2Backward0>)
12385
12386 print_dice: 0.5223010778427124, print_iou: 0.35345569252967834
12387 Epoch 31/499: 74% | 118/160 [18:49<06:37, 9.47s/it]masks dr unique: tensor([-7.
     8489, -7.8395, -7.8219, ..., 11.9912, 11.9966, 12.0009],
            grad fn=<Unique2Backward0>)
12388
12389 masks dr unique: tensor([-7.8489, -7.8395, -7.8219, ..., 11.9912, 11.9966, 12.0009],
            grad fn=<Unique2Backward0>)
12391 print dice: 0.4708755612373352,
                                    print iou: 0.30793800950050354
12392 Epoch 31/499: 74% | 119/160 [18:58<06:27, 9.44s/it]masks_dr unique: tensor([-7.
     8603, -7.8532, -7.8426, ..., 12.6941, 12.7013, 12.7064],
12393
            grad_fn=<Unique2Backward0>)
12394 masks_dr unique: tensor([-7.8603, -7.8532, -7.8426, ..., 12.6941, 12.7013, 12.7064],
            grad_fn=<Unique2Backward0>)
12396 Epoch 31/499: 75% | 120/160 [19:08<06:18, 9.46s/it]print_dice: 0.
     5828659534454346, print_iou: 0.41129907965660095
12397 masks_dr unique: tensor([-7.9142, -7.9042, -7.8794, ..., 11.9917, 11.9924, 11.9952],
            grad_fn=<Unique2Backward0>)
12398
12399 masks_dr unique: tensor([-7.9142, -7.9042, -7.8794, ..., 11.9917, 11.9924, 11.9952],
            grad_fn=<Unique2Backward0>)
12401 print dice: 0.5968474745750427, print iou: 0.4253617823123932
12402 Epoch 31/499: 76%| | 121/160 [19:18<06:11, 9.53s/it]masks_dr unique: tensor([-8.
     0495, -8.0396, -8.0227, ..., 13.3820, 13.3826, 13.3863],
            grad_fn=<Unique2Backward0>)
12403
12404 masks_dr unique: tensor([-8.0495, -8.0396, -8.0227, ..., 13.3820, 13.3826, 13.3863],
12405
            grad_fn=<Unique2Backward0>)
12406 print_dice: 0.5445780158042908, print_iou: 0.3741718828678131
12407 Epoch 31/499: 76% | 122/160 [19:27<06:03, 9.56s/it]masks_dr unique: tensor([-7.
     9887, -7.9807, -7.9600, ..., 12.9509, 12.9518, 12.9525],
12408
            grad_fn=<Unique2Backward0>)
12409 masks_dr unique: tensor([-7.9887, -7.9807, -7.9600, ..., 12.9509, 12.9518, 12.9525],
            grad fn=<Unique2Backward0>)
12410
12411 Epoch 31/499: 77%| | 123/160 [19:37<05:54, 9.58s/it]print_dice: 0.
     6096267104148865, print_iou: 0.43846264481544495
12412 masks_dr unique: tensor([-8.0285, -8.0159, -8.0059, ..., 13.5477, 13.5496, 13.5500],
            grad_fn=<Unique2Backward0>)
12414 masks_dr unique: tensor([-8.0285, -8.0159, -8.0059, ..., 13.5477, 13.5496, 13.5500],
12415
            grad_fn=<Unique2Backward0>)
12416 print_dice: 0.5840697884559631,
                                     print_iou: 0.41249898076057434
9137, -7.9037, -7.8790, ..., 11.9886, 11.9896, 11.9922],
            grad fn=<Unique2Backward0>)
12418
12419 masks_dr unique: tensor([-7.9137, -7.9037, -7.8790, ..., 11.9886, 11.9896, 11.9922],
            grad fn=<Unique2Backward0>)
12420
12421 print dice: 0.5903051495552063,
                                    print iou: 0.4187467396259308
12422 Epoch 31/499: 78% | 125/160 [19:56<05:35, 9.58s/it]masks_dr unique: tensor([-7.
     6033, -7.6006, -7.5865, ..., 12.0557, 12.0624, 12.0672],
12423
            grad fn=<Unique2Backward0>)
12424 masks dr unique: tensor([-7.6033, -7.6006, -7.5865, ..., 12.0557, 12.0624, 12.0672],
            grad fn=<Unique2Backward0>)
12425
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12426 Epoch 31/499: 79% | 126/160 [20:06<05:25, 9.58s/it]print dice: 0.
     5076152086257935, print_iou: 0.34013694524765015
12427 masks dr unique: tensor([-8.1698, -8.1587, -8.1448, ..., 12.2577, 12.2644, 12.2695],
            grad fn=<Unique2Backward0>)
12428
12429 masks_dr unique: tensor([-8.1698, -8.1587, -8.1448, ..., 12.2577, 12.2644, 12.2695],
            grad_fn=<Unique2Backward0>)
12431 print_dice: 0.4777461886405945, print_iou: 0.3138413429260254
12432 Epoch 31/499: 79% 79% 1244 127/160 [20:15<05:14, 9.52s/it]masks_dr unique: tensor([-7.
     9116, -7.9015, -7.8770, ..., 11.9947, 11.9952, 11.9980],
            grad fn=<Unique2Backward0>)
12433
12434 masks_dr unique: tensor([-7.9116, -7.9015, -7.8770, ..., 11.9947, 11.9952, 11.9980],
            grad_fn=<Unique2Backward0>)
12435
12436 Epoch 31/499: 80% | 128/160 [20:25<05:04, 9.53s/it]print_dice: 0.
     5619373917579651, print iou: 0.39076003432273865
12437 masks_dr unique: tensor([-7.9118, -7.9016, -7.8772, ..., 11.9907, 11.9918, 11.9944],
            grad_fn=<Unique2Backward0>)
12439 masks_dr unique: tensor([-7.9118, -7.9016, -7.8772, ..., 11.9907, 11.9918, 11.9944],
            grad_fn=<Unique2Backward0>)
12440
12441 Epoch 31/499: 81% | 129/160 [20:34<04:55, 9.53s/it]print_dice: 0.
     5433179140090942, print_iou: 0.3729831576347351
12442 masks_dr unique: tensor([-7.7291, -7.7169, -7.7056, ..., 12.0548, 12.0601, 12.0655],
            grad_fn=<Unique2Backward0>)
12444 masks_dr unique: tensor([-7.7291, -7.7169, -7.7056, ..., 12.0548, 12.0601, 12.0655],
12445
            grad fn=<Unique2Backward0>)
12446 print_dice: 0.5486559867858887, print_iou: 0.3780330717563629
12447 Epoch 31/499: 81%| | 130/160 [20:44<04:46, 9.55s/it]masks_dr unique: tensor([-7.
     7093, -7.7009, -7.6788, ..., 12.3337, 12.3367, 12.3392],
            grad fn=<Unique2Backward0>)
12448
12449 masks_dr unique: tensor([-7.7093, -7.7009, -7.6788, ..., 12.3337, 12.3367, 12.3392],
            grad fn=<Unique2Backward0>)
12450
12451 Epoch 31/499: 82%| | 131/160 [20:53<04:36, 9.53s/it]print_dice: 0.
     518516480922699, print_iou: 0.3499981164932251
12452 masks_dr unique: tensor([-7.9112, -7.9009, -7.8766, ..., 11.9921, 11.9928, 11.9955],
            grad fn=<Unique2Backward0>)
12454 masks_dr unique: tensor([-7.9112, -7.9009, -7.8766, ..., 11.9921, 11.9928, 11.9955],
            grad_fn=<Unique2Backward0>)
12456 Epoch 31/499: 82%| | 132/160 [21:02<04:24, 9.46s/it]print_dice: 0.
     5098719596862793, print_iou: 0.3421665132045746
12457 masks_dr unique: tensor([-7.9321, -7.9091, -7.9024, ..., 12.4771, 12.4774, 12.4842],
            grad fn=<Unique2Backward0>)
12458
12459 masks_dr unique: tensor([-7.9321, -7.9091, -7.9024, ..., 12.4771, 12.4774, 12.4842],
            grad_fn=<Unique2Backward0>)
12461 Epoch 31/499: 83% | | 133/160 [21:12<04:15, 9.46s/it]print_dice: 0.
     5164676308631897, print_iou: 0.34813371300697327
12462 masks_dr unique: tensor([-7.7089, -7.7054, -7.7044, ..., 12.2299, 12.2350, 12.2414],
            grad_fn=<Unique2Backward0>)
12464 masks_dr unique: tensor([-7.7089, -7.7054, -7.7044, ..., 12.2299, 12.2350, 12.2414],
12465
            grad_fn=<Unique2Backward0>)
12466 print_dice: 0.5760038495063782, print_iou: 0.4044981896877289
12467 Epoch 31/499: 84% | 134/160 [21:22<04:06, 9.49s/it]masks_dr unique: tensor([-7.
     9126, -7.9022, -7.8780, ..., 11.9919, 11.9926, 11.9953],
            grad_fn=<Unique2Backward0>)
12468
12469 masks_dr unique: tensor([-7.9126, -7.9022, -7.8780, ..., 11.9919, 11.9926, 11.9953],
            grad_fn=<Unique2Backward0>)
12470
12471 print_dice: 0.5501676201820374, print_iou: 0.3794698119163513
12472 Epoch 31/499: 84% | 135/160 [21:31<03:58, 9.55s/it]masks_dr unique: tensor([-7.
     9111, -7.9008, -7.8766, ..., 11.9968, 11.9974, 12.0002],
            grad fn=<Unique2Backward0>)
12473
12474 masks_dr unique: tensor([-7.9111, -7.9008, -7.8766, ..., 11.9968, 11.9974, 12.0002],
            grad fn=<Unique2Backward0>)
12475
12476 Epoch 31/499: 85% | 136/160 [21:40<03:47, 9.48s/it]print dice: 0.
                        print iou: 0.33756694197654724
     504747748374939,
12477 masks_dr unique: tensor([-7.9104, -7.9000, -7.8759, ..., 11.9968, 11.9972, 12.0001],
12478
            grad fn=<Unique2Backward0>)
12479 masks_dr unique: tensor([-7.9104, -7.9000, -7.8759, ..., 11.9968, 11.9972, 12.0001],
            grad_fn=<Unique2Backward0>)
12480
                                | | 137/160 [21:50<03:37, 9.46s/it]print dice: 0.
12481 Epoch 31/499: 86%
     49710509181022644, print_iou: 0.330765038728714
12482 masks_dr unique: tensor([-8.3311, -8.3180, -8.3032, ..., 13.4673, 13.4695, 13.4734],
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12483
            grad fn=<Unique2Backward0>)
12484 masks_dr unique: tensor([-8.3311, -8.3180, -8.3032, ..., 13.4673, 13.4695, 13.4734],
            grad fn=<Unique2Backward0>)
12486 print_dice: 0.45651736855506897,
                                     print_iou: 0.2957710027694702
12487 Epoch 31/499: 86% | 138/160 [21:59<03:28, 9.49s/it]masks dr unique: tensor([-7.
     9529, -7.9383, -7.9274, ..., 12.2111, 12.2193, 12.2225],
            grad fn=<Unique2Backward0>)
12488
12489 masks_dr unique: tensor([-7.9529, -7.9383, -7.9274, ..., 12.2111, 12.2193, 12.2225],
            grad_fn=<Unique2Backward0>)
12491 Epoch 31/499: 87% | 87% | 139/160 [22:09<03:19, 9.52s/it]print_dice: 0.
     5863836407661438, print_iou: 0.41481098532676697
12492 masks_dr unique: tensor([-7.5807, -7.5717, -7.5627, ..., 13.2359, 13.2369, 13.2369],
            grad fn=<Unique2Backward0>)
12494 masks_dr unique: tensor([-7.5807, -7.5717, -7.5627, ..., 13.2359, 13.2369, 13.2369],
            grad_fn=<Unique2Backward0>)
12495
12496 Epoch 31/499: 88%
     5607557892799377, print_iou: 0.38961824774742126
12497 masks_dr unique: tensor([-7.4274, -7.4252, -7.4228, ..., 12.2324, 12.2330, 12.2331],
12498
            grad_fn=<Unique2Backward0>)
12499 masks_dr unique: tensor([-7.4274, -7.4252, -7.4228, ..., 12.2324, 12.2330, 12.2331],
12500
            grad fn=<Unique2Backward0>)
12501 print_dice: 0.5219303369522095, print_iou: 0.3531161844730377
12502 Epoch 31/499: 88% | 141/160 [22:28<02:59, 9.47s/it]masks_dr unique: tensor([-7.
     9129, -7.9024, -7.8783, ..., 12.0001, 12.0009, 12.0036],
12503
            grad_fn=<Unique2Backward0>)
12504 masks dr unique: tensor([-7.9129, -7.9024, -7.8783, ..., 12.0001, 12.0009, 12.0036],
12505
            grad fn=<Unique2Backward0>)
12506 print dice: 0.5176841616630554, print iou: 0.34924012422561646
12507 Epoch 31/499: 89% | 142/160 [22:37<02:50, 9.45s/it]masks dr unique: tensor([-8.
     0893, -8.0858, -8.0832, ..., 13.5394, 13.5407, 13.5409],
            grad fn=<Unique2Backward0>)
12508
12509 masks_dr unique: tensor([-8.0893, -8.0858, -8.0832, ..., 13.5394, 13.5407, 13.5409],
            grad_fn=<Unique2Backward0>)
513045608997345, print_iou: 0.34503114223480225
12512 masks_dr unique: tensor([-7.5954, -7.5897, -7.5846, ..., 12.1504, 12.1578, 12.1621],
            grad_fn=<Unique2Backward0>)
12513
12514 masks_dr unique: tensor([-7.5954, -7.5897, -7.5846, ..., 12.1504, 12.1578, 12.1621],
            grad_fn=<Unique2Backward0>)
12515
12516 Epoch 31/499: 90% | 144/160 [22:56<02:31, 9.48s/it]print dice: 0.
     5388940572738647, print_iou: 0.36882615089416504
12517 masks_dr unique: tensor([-7.9108, -7.9003, -7.8761, ..., 11.9984, 11.9993, 12.0020],
            grad_fn=<Unique2Backward0>)
12518
12519 masks_dr unique: tensor([-7.9108, -7.9003, -7.8761, ..., 11.9984, 11.9993, 12.0020],
            grad_fn=<Unique2Backward0>)
12520
12521 Epoch 31/499: 91%| | 145/160 [23:06<02:21, 9.41s/it]print_dice: 0.
     5390162467956543, print_iou: 0.3689405918121338
12522 masks_dr unique: tensor([-7.9635, -7.9461, -7.9348, ..., 12.4749, 12.4764, 12.4798],
12523
            grad_fn=<Unique2Backward0>)
12524 masks_dr unique: tensor([-7.9635, -7.9461, -7.9348, ..., 12.4749, 12.4764, 12.4798],
            grad fn=<Unique2Backward0>)
12525
                                | | 146/160 [23:15<02:12, 9.49s/it]print_dice: 0.
12526 Epoch 31/499: 91%
     5073122382164001, print_iou: 0.33986490964889526
12527 masks_dr unique: tensor([-7.2261, -7.2171, -7.2116, ..., 11.9128, 11.9197, 11.9239],
            grad_fn=<Unique2Backward0>)
12529 masks_dr unique: tensor([-7.2261, -7.2171, -7.2116, ..., 11.9128, 11.9197, 11.9239],
            grad fn=<Unique2Backward0>)
12530
                                      print_iou: 0.3153073787689209
12531 print_dice: 0.47944286465644836,
12532 Epoch 31/499: 92%
                                | | 147/160 [23:25<02:03, 9.52s/it]masks_dr unique: tensor([-7.
     8646, -7.8640, -7.8557, ..., 12.4549, 12.4617, 12.4650],
12533
            grad_fn=<Unique2Backward0>)
12534 masks dr unique: tensor([-7.8646, -7.8640, -7.8557, ..., 12.4549, 12.4617, 12.4650],
            grad_fn=<Unique2Backward0>)
12535
12536 print dice: 0.5161531567573547,
                                    print_iou: 0.3478480279445648
12537 Epoch 31/499: 92% | 148/160 [23:34<01:54, 9.52s/it]masks dr unique: tensor([-7.
     2864, -7.2788, -7.2725, ..., 11.5135, 11.5177, 11.5210],
12538
            grad fn=<Unique2Backward0>)
12539 masks_dr unique: tensor([-7.2864, -7.2788, -7.2725, ..., 11.5135, 11.5177, 11.5210],
            grad fn=<Unique2Backward0>)
12540
```

```
12541 print dice: 0.4658743143081665, print iou: 0.3036741316318512
12542 Epoch 31/499: 93% | 149/160 [23:44<01:44, 9.47s/it]masks dr unique: tensor([-8.
     1418, -8.1358, -8.1186, ..., 13.0694, 13.0706, 13.0714],
            grad fn=<Unique2Backward0>)
12543
12544 masks_dr unique: tensor([-8.1418, -8.1358, -8.1186, ..., 13.0694, 13.0706, 13.0714],
            grad_fn=<Unique2Backward0>)
12546 Epoch 31/499: 94%| 94%| 150/160 [23:53<01:34, 9.49s/it]print dice: 0.
     5395594835281372, print_iou: 0.36944979429244995
12547 masks_dr unique: tensor([-7.9039, -7.8958, -7.8877, ..., 12.1425, 12.1504, 12.1545],
            grad fn=<Unique2Backward0>)
12548
12549 masks_dr unique: tensor([-7.9039, -7.8958, -7.8877, ..., 12.1425, 12.1504, 12.1545],
            grad fn=<Unique2Backward0>)
12550
12551 Epoch 31/499: 94%| | 151/160 [24:03<01:25, 9.46s/it]print_dice: 0.
     47405049204826355, print iou: 0.31065937876701355
12552 masks dr unique: tensor([-7.9088, -7.8985, -7.8741, \ldots, 12.0015, 12.0023, 12.0050]
            grad_fn=<Unique2Backward0>)
12554 masks_dr unique: tensor([-7.9088, -7.8985, -7.8741, ..., 12.0015, 12.0023, 12.0050],
12555
            grad_fn=<Unique2Backward0>)
12556 Epoch 31/499: 95% | 152/160 [24:12<01:15, 9.47s/it]print_dice: 0.
     48828092217445374, print_iou: 0.322997123003006
12557 masks_dr unique: tensor([-7.6931, -7.6810, -7.6772, ..., 12.3611, 12.3687, 12.3723],
            grad_fn=<Unique2Backward0>)
12559 masks_dr unique: tensor([-7.6931, -7.6810, -7.6772, ..., 12.3611, 12.3687, 12.3723],
12560
            grad_fn=<Unique2Backward0>)
12561 Epoch 31/499: 96% | 153/160 [24:22<01:06, 9.49s/it]print_dice: 0.
     47704723477363586, print_iou: 0.31323838233947754
12562 masks_dr unique: tensor([-7.9095, -7.8992, -7.8747, ..., 12.0062, 12.0067, 12.0096],
            grad_fn=<Unique2Backward0>)
12563
12564 masks_dr unique: tensor([-7.9095, -7.8992, -7.8747, ..., 12.0062, 12.0067, 12.0096],
            grad fn=<Unique2Backward0>)
12565
12566 print dice: 0.5646767020225525, print iou: 0.3934142589569092
9771, -7.9657, -7.9588, ..., 12.5311, 12.5320, 12.5325],
            grad fn=<Unique2Backward0>)
12568
12569 masks_dr unique: tensor([-7.9771, -7.9657, -7.9588, ..., 12.5311, 12.5320, 12.5325],
12570
            grad_fn=<Unique2Backward0>)
12571 print dice: 0.440316379070282, print_iou: 0.282311350107193
12572 Epoch 31/499: 97% | 10 | 10 | 155/160 [24:41<00:47, 9.48s/it] masks_dr unique: tensor([-8.
     0261, -8.0200, -8.0157, ..., 13.4915, 13.4923, 13.4933],
            grad fn=<Unique2Backward0>)
12573
12574 masks_dr unique: tensor([-8.0261, -8.0200, -8.0157, ..., 13.4915, 13.4923, 13.4933],
            grad_fn=<Unique2Backward0>)
12575
12576 Epoch 31/499: 98%| 156/160 [24:50<00:38, 9.53s/it]print_dice: 0.
     5450853705406189, print_iou: 0.37465110421180725
12577 masks_dr unique: tensor([-7.9098, -7.8996, -7.8751, ..., 12.0038, 12.0047, 12.0074],
12578
            grad_fn=<Unique2Backward0>)
12579 masks_dr unique: tensor([-7.9098, -7.8996, -7.8751, ..., 12.0038, 12.0047, 12.0074],
12580
            grad_fn=<Unique2Backward0>)
12581 print_dice: 0.532447338104248, print_iou: 0.3628131151199341
12582 Epoch 31/499: 98% | 157/160 [25:00<00:28, 9.53s/it]masks_dr unique: tensor([-7.
     6503, -7.6395, -7.6245, ..., 12.2728, 12.2810, 12.2845],
            grad_fn=<Unique2Backward0>)
12583
12584 masks_dr unique: tensor([-7.6503, -7.6395, -7.6245, ..., 12.2728, 12.2810, 12.2845],
12585
            grad fn=<Unique2Backward0>)
12586 print_dice: 0.5335655808448792, print_iou: 0.363852322101593
12587 Epoch 31/499: 99%| 158/160 [25:09<00:19, 9.55s/it]masks_dr unique: tensor([-7.
     5595, -7.5575, -7.5533, ..., 12.8539, 12.8561, 12.8585],
12588
            grad_fn=<Unique2Backward0>)
12589 masks_dr unique: tensor([-7.5595, -7.5575, -7.5533, ..., 12.8539, 12.8561, 12.8585],
            grad fn=<Unique2Backward0>)
12590
12591 Epoch 31/499: 99% 100 159/160 [25:19<00:09, 9.55s/it]print_dice: 0.
     45355868339538574, print iou: 0.2932918667793274
12592 masks_dr unique: tensor([-7.9079, -7.8978, -7.8732, ..., 12.0022, 12.0028, 12.0056],
            grad fn=<Unique2Backward0>)
12594 masks_dr unique: tensor([-7.9079, -7.8978, -7.8732, ..., 12.0022, 12.0028, 12.0056],
            grad_fn=<Unique2Backward0>)
12595
12596 print dice: 0.4496532678604126,
                                     print iou: 0.2900340259075165
12597
       [159/160] eta: 0:00:09
                                time: 9.4825 data: 0.0003
12598 Epoch 31/499: 100% | 100% | 160/160 [25:29<00:00, 9.56s/it]
```

```
12599 Total time: 0:25:29 (9.5597 s / it)
12600 Averaged stats: training_loss: -103.0786 (-103.0786) loss_mask: -103.3653 (-103.3653)
      loss dice: 0.2867 (0.2867)
        0%|
                     0/12 [00:00<?, ?it/s]Net parameter norm: 1054.4263898050413
12601
12602 Validating...
12603 Valid_dataloader len: 12
12604 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.5262e-04, 2
      .5816e-04, 2.7388e-04, ..., 9.9999e-01, 9.9999e-01,
              9.9999e-01], grad_fn=<Unique2Backward0>)
12605
12606 masks_dr unique: tensor([5.0068e-04, 5.0535e-04, 5.1331e-04, ..., 9.9999e-01, 9.9999e-01,
              9.9999e-01], grad_fn=<Unique2Backward0>)
12607
                     | 1/12 [00:10<01:58, 10.74s/it]print dice: 0.5622333884239197, print iou: 0
12608
        8%|
      .39104631543159485
       [ 0/12] eta: 0:02:08
                                time: 10.7377 data: 4.9501
12609
12610 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.4718e-04, 2
      .8691e-04, 2.9592e-04, ..., 1.0000e+00, 1.0000e+00,
12611
              1.0000e+00], grad_fn=<Unique2Backward0>)
12612 masks_dr unique: tensor([4.7974e-04, 4.8311e-04, 4.8463e-04, ..., 1.0000e+00, 1.0000e+00,
12613
              1.0000e+00], grad_fn=<Unique2Backward0>)
12614 17%
                    | 2/12 [00:16<01:18, 7.88s/it]print_dice: 0.6094492077827454, print_iou: 0
      .4382789731025696
12615 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.8345e-04, 3
      .5150e-04, 3.5559e-04, ..., 1.0000e+00, 1.0000e+00,
12616
              1.0000e+00], grad fn=<Unique2Backward0>)
12617 masks_dr unique: tensor([5.2290e-04, 5.2638e-04, 5.2672e-04, ..., 1.0000e+00, 1.0000e+00,
12618
              1.0000e+00], grad_fn=<Unique2Backward0>)
12619 print dice: 0.5287904739379883, print iou: 0.3594256639480591
                    | 3/12 [00:22<01:02, 6.95s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
      ]) unique sigmoid values: tensor([1.5661e-04, 1.6579e-04, 1.8186e-04, ..., 1.0000e+00, 1.
      0000e+00,
12621
              1.0000e+00], grad_fn=<Unique2Backward0>)
12622 masks_dr unique: tensor([2.5343e-04, 2.5504e-04, 2.5794e-04, ..., 1.0000e+00, 1.0000e+00,
              1.0000e+00], grad_fn=<Unique2Backward0>)
12624 print_dice: 0.5187923908233643, print_iou: 0.35024958848953247
12625 33%
                    4/12 [00:28<00:53, 6.64s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
      ]) unique sigmoid values: tensor([2.8066e-04, 2.8998e-04, 2.9319e-04, ..., 9.9999e-01, 9.
      9999e-01,
              9.9999e-01], grad_fn=<Unique2Backward0>)
12626
12627 masks_dr unique: tensor([4.0724e-04, 4.1151e-04, 4.2421e-04, ..., 9.9999e-01, 9.9999e-01,
              9.9999e-01], grad fn=<Unique2Backward0>)
12628
12629 print_dice: 0.5773990154266357, print_iou: 0.405875563621521
                    | 5/12 [00:34<00:44, 6.36s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
      ]) unique sigmoid values: tensor([2.8102e-04, 2.9054e-04, 2.9400e-04, ..., 9.9999e-01, 9.
12631
              9.9999e-01], grad_fn=<Unique2Backward0>)
12632 masks_dr unique: tensor([4.0714e-04, 4.1141e-04, 4.2412e-04, ..., 9.9999e-01, 9.9999e-01,
              9.9999e-01], grad_fn=<Unique2Backward0>)
12634 print_dice: 0.5071582198143005, print_iou: 0.33972668647766113
12635 50% l
                    6/12 [00:40<00:36, 6.14s/it]masks dr shape: torch.Size([1, 1, 32, 32, 32]
      ]) unique sigmoid values: tensor([2.8112e-04, 2.9107e-04, 2.9360e-04, ..., 9.9999e-01, 9.
      9999e-01,
              9.9999e-01], grad fn=<Unique2Backward0>)
12636
12637 masks_dr unique: tensor([2.9565e-04, 3.0545e-04, 3.1526e-04, ..., 9.9999e-01, 9.9999e-01,
              9.9999e-01], grad_fn=<Unique2Backward0>)
12638
12639 print_dice: 0.44044551253318787, print_iou: 0.28241750597953796
12640 58%
                  | 7/12 [00:46<00:30, 6.19s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
      ]) unique sigmoid values: tensor([2.3527e-04, 2.4420e-04, 2.4834e-04, ..., 1.0000e+00, 1.
      0000e+00,
12641
              1.0000e+00], grad_fn=<Unique2Backward0>)
12642 masks_dr unique: tensor([4.9024e-04, 4.9423e-04, 4.9884e-04, ..., 1.0000e+00, 1.0000e+00,
              1.0000e+00], grad_fn=<Unique2Backward0>)
12643
12644 67%
                   8/12 [00:52<00:24, 6.04s/it]print_dice: 0.547482430934906, print_iou: 0.
      376919686794281
12645 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([1.6074e-04, 1
      .7398e-04, 2.1615e-04, ..., 1.0000e+00, 1.0000e+00,
              1.0000e+00], grad fn=<Unique2Backward0>)
12646
12647 masks dr unique: tensor([4.1998e-04, 4.2185e-04, 4.3738e-04, ..., 1.0000e+00, 1.0000e+00,
12648
              1.0000e+00], grad_fn=<Unique2Backward0>)
12649
      75%||
                    9/12 [00:58<00:18, 6.21s/it]print dice: 0.5654206275939941, print_iou: 0
```

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12649 .39413687586784363
12650 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.8083e-04, 2
      .8963e-04, 2.9321e-04, ..., 9.9999e-01, 9.9999e-01,
12651
             9.9999e-01], grad_fn=<Unique2Backward0>)
12652 masks_dr unique: tensor([4.0678e-04, 4.1108e-04, 4.2383e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
12654 print dice: 0.5748329758644104, print iou: 0.4033442735671997
             | 10/12 [01:04<00:12, 6.06s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
12655 83%
     ]) unique sigmoid values: tensor([2.8545e-04, 3.0282e-04, 3.2950e-04, ..., 1.0000e+00, 1.
     0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
12656
12657 masks_dr unique: tensor([4.8051e-04, 4.8186e-04, 4.8344e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
12658
12659 92% | | 11/12 [01:10<00:05, 5.89s/it]print dice: 0.6151400804519653, print iou:
     0.4441893994808197
12660 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.8085e-04, 2
      .9023e-04, 2.9310e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
12661
12662 masks dr unique: tensor([4.0758e-04, 4.1185e-04, 4.2453e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
           0.4087046682834625
       [11/12] eta: 0:00:06
                               time: 6.3072 data: 0.4131
12665
12666 100% | 12/12 [01:16<00:00, 6.34s/it]
12667 Total time: 0:01:16 (6.3427 s / it)
12668 ============
12669 Averaged stats:
                     0%
                                 | 0/160 [00:00<?, ?it/s]epoch: 32 learning rate:
12670 Epoch 32/499:
12671 masks_dr unique: tensor([-7.8411, -7.8398, -7.8357, ..., 13.4062, 13.4069, 13.4079],
            grad fn=<Unique2Backward0>)
12672
12673 masks_dr unique: tensor([-7.8411, -7.8398, -7.8357, ..., 13.4062, 13.4069, 13.4079],
            grad_fn=<Unique2Backward0>)
12674
                                  | 1/160 [00:13<36:45, 13.87s/it]print_dice: 0.533416748046875
12675 Epoch 32/499:
                     1%|
         print_iou: 0.36371394991874695
12676
       [ 0/160] eta: 0:36:59 time: 13.8713 data: 4.3364
12677 masks_dr unique: tensor([-7.6643, -7.6591, -7.6441, ..., 12.5150, 12.5204, 12.5227],
            grad_fn=<Unique2Backward0>)
12678
12679 masks_dr unique: tensor([-7.6643, -7.6591, -7.6441, ..., 12.5150, 12.5204, 12.5227],
12680
            grad_fn=<Unique2Backward0>)
12681 print dice: 0.46015965938568115,
                                       print iou: 0.29883596301078796
                     1%||
                                 | 2/160 [00:23<30:05, 11.43s/it]masks_dr unique: tensor([-7.
12682 Epoch 32/499:
     4954, -7.4935, -7.4799, ..., 12.7306, 12.7307, 12.7308],
12683
            grad_fn=<Unique2Backward0>)
12684 masks_dr unique: tensor([-7.4954, -7.4935, -7.4799, ..., 12.7306, 12.7307, 12.7308],
12685
            grad_fn=<Unique2Backward0>)
12686 Epoch 32/499:
                     2%||
                                  | 3/160 [00:33<27:38, 10.56s/it]print_dice: 0.5178545713424683
         print_iou: 0.3493952453136444
12687 masks_dr unique: tensor([-8.0201, -8.0053, -7.9930, ..., 12.5865, 12.5872, 12.5947],
12688
            grad_fn=<Unique2Backward0>)
12689 masks_dr unique: tensor([-8.0201, -8.0053, -7.9930, ..., 12.5865, 12.5872, 12.5947],
            grad fn=<Unique2Backward0>)
12690
12691 print_dice: 0.5990504622459412, print_iou: 0.42760318517684937
12692 Epoch 32/499: 2%
                                 | 4/160 [00:42<26:21, 10.14s/it]masks dr unique: tensor([-7.
     8559, -7.8529, -7.8386, ..., 13.4738, 13.4742, 13.4791],
            grad_fn=<Unique2Backward0>)
12694 masks_dr unique: tensor([-7.8559, -7.8529, -7.8386, ..., 13.4738, 13.4742, 13.4791],
            grad_fn=<Unique2Backward0>)
12695
12696 Epoch 32/499:
                     3%|
                                 | 5/160 [00:51<25:26, 9.85s/it]print_dice: 0.5453675985336304
         print iou: 0.3749178349971771
12697 masks_dr unique: tensor([-8.3549, -8.3506, -8.3339, ..., 13.0616, 13.0625, 13.0630],
            grad_fn=<Unique2Backward0>)
12699 masks_dr unique: tensor([-8.3549, -8.3506, -8.3339, ..., 13.0616, 13.0625, 13.0630],
            grad_fn=<Unique2Backward0>)
12700
12701 print dice: 0.52069491147995,
                                    print_iou: 0.3519861698150635
                     4%
                                  | 6/160 [01:01<24:52, 9.69s/it]masks_dr unique: tensor([-8.
12702 Epoch 32/499:
     0350, -8.0223, -8.0128, \ldots, 13.5610, 13.5628, 13.5632
            grad fn=<Unique2Backward0>)
12703
12704 masks dr unique: tensor([-8.0350, -8.0223, -8.0128, ..., 13.5610, 13.5628, 13.5632],
            grad_fn=<Unique2Backward0>)
12705
```

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7/160 [01:10<24:25, 9.58s/it]print dice: 0.5827898383140564
                     4%|
12706 Epoch 32/499:
         print iou: 0.41122332215309143
12707 masks_dr unique: tensor([-8.2395, -8.2287, -8.2279, ..., 13.3608, 13.3618, 13.3629],
            grad fn=<Unique2Backward0>)
12708
12709 masks dr unique: tensor([-8.2395, -8.2287, -8.2279, ..., 13.3608, 13.3618, 13.3629],
            grad_fn=<Unique2Backward0>)
                                  | 8/160 [01:20<24:15, 9.57s/it]print_dice: 0.6067903637886047
12711 Epoch 32/499:
                     5%||
         print_iou: 0.43553414940834045
12712 masks_dr unique: tensor([-7.9086, -7.8989, -7.8745, ..., 12.0076, 12.0078, 12.0107],
            grad fn=<Unique2Backward0>)
12713
12714 masks_dr unique: tensor([-7.9086, -7.8989, -7.8745, ..., 12.0076, 12.0078, 12.0107],
            grad fn=<Unique2Backward0>)
12715
                     6%
                                  9/160 [01:29<23:56, 9.51s/it]print_dice: 0.5883249044418335
12716 Epoch 32/499:
         print iou: 0.41675660014152527
12717 masks_dr unique: tensor([-7.9072, -7.8976, -7.8733, ..., 12.0071, 12.0077, 12.0105],
            grad fn=<Unique2Backward0>)
12719 masks_dr unique: tensor([-7.9072, -7.8976, -7.8733, ..., 12.0071, 12.0077, 12.0105],
            grad_fn=<Unique2Backward0>)
12720
12721 Epoch 32/499:
                     6%|
                                  | 10/160 [01:39<23:44, 9.50s/it]print_dice: 0.
      49727949500083923, print_iou: 0.330919474363327
12722 masks_dr unique: tensor([-7.8499, -7.8449, -7.8290, ..., 12.4147, 12.4197, 12.4244],
            grad_fn=<Unique2Backward0>)
12723
12724 masks dr unique: tensor([-7.8499, -7.8449, -7.8290, ..., 12.4147, 12.4197, 12.4244],
            grad fn=<Unique2Backward0>)
12725
12726 Epoch 32/499:
                    7%
                                  | 11/160 [01:48<23:36, 9.51s/it]print_dice: 0.
      5553834438323975, print_iou: 0.38445043563842773
12727 masks dr unique: tensor([-8.1059, -8.0936, -8.0859, ..., 13.2400, 13.2411, 13.2422],
            grad_fn=<Unique2Backward0>)
12728
12729 masks_dr unique: tensor([-8.1059, -8.0936, -8.0859, ..., 13.2400, 13.2411, 13.2422],
12730
            grad fn=<Unique2Backward0>)
                                  | 12/160 [01:58<23:25, 9.50s/it]print dice: 0.608212947845459
12731 Epoch 32/499:
                     8%
         print_iou: 0.43700146675109863
12732 masks_dr unique: tensor([-7.9026, -7.8929, -7.8686, ..., 12.0083, 12.0086, 12.0115],
12733
            grad fn=<Unique2Backward0>)
12734 masks_dr unique: tensor([-7.9026, -7.8929, -7.8686, ..., 12.0083, 12.0086, 12.0115],
12735
            grad_fn=<Unique2Backward0>)
                     8%|
                                  | 13/160 [02:07<23:15, 9.50s/it]print_dice: 0.
12736 Epoch 32/499:
     4923006594181061, print_iou: 0.32652443647384644
12737 masks_dr unique: tensor([-7.9869, -7.9760, -7.9632, ..., 12.7532, 12.7537, 12.7616],
            grad fn=<Unique2Backward0>)
12738
12739 masks_dr unique: tensor([-7.9869, -7.9760, -7.9632, ..., 12.7532, 12.7537, 12.7616],
            grad_fn=<Unique2Backward0>)
12741 print_dice: 0.5930480360984802, print_iou: 0.4215126633644104
12742 Epoch 32/499: 9%
                                 | 14/160 [02:16<22:57, 9.44s/it]masks_dr unique: tensor([-7.
      6366, -7.6297, -7.6228, ..., 13.1223, 13.1230, 13.1239],
12743
            grad_fn=<Unique2Backward0>)
12744 masks_dr unique: tensor([-7.6366, -7.6297, -7.6228, ..., 13.1223, 13.1230, 13.1239],
            grad_fn=<Unique2Backward0>)
12745
12746 print_dice: 0.4741140604019165, print_iou: 0.3107139766216278
12747 Epoch 32/499: 9%
                              | 15/160 [02:26<22:55, 9.49s/it]masks_dr unique: tensor([-7.
     9008, -7.8911, -7.8668, ..., 12.0096, 12.0104, 12.0131],
12748
            grad_fn=<Unique2Backward0>)
12749 masks_dr unique: tensor([-7.9008, -7.8911, -7.8668, ..., 12.0096, 12.0104, 12.0131],
12750
            grad_fn=<Unique2Backward0>)
12751 print dice: 0.5473986864089966, print iou: 0.3768402934074402
12752 Epoch 32/499: 10% | 16/160 [02:35<22:45, 9.49s/it]masks_dr unique: tensor([-8.
      0051, -7.9903, -7.9803, ..., 12.9947, 12.9969, 12.9972],
            grad_fn=<Unique2Backward0>)
12753
12754 masks_dr unique: tensor([-8.0051, -7.9903, -7.9803, ..., 12.9947, 12.9969, 12.9972],
            grad fn=<Unique2Backward0>)
12755
12756 print_dice: 0.4935295879840851.
                                     print_iou: 0.32760655879974365
12757 Epoch 32/499: 11%
                                  | 17/160 [02:45<22:40, 9.51s/it]masks_dr unique: tensor([-8.
      0611, -8.0480, -8.0361, ..., 13.1519, 13.1543, 13.1544],
12758
            grad fn=<Unique2Backward0>)
12759 masks_dr unique: tensor([-8.0611, -8.0480, -8.0361, ..., 13.1519, 13.1543, 13.1544],
            grad_fn=<Unique2Backward0>)
12760
12761 print dice: 0.5419431328773499,
                                       print_iou: 0.3716886341571808
12762 Epoch 32/499: 11%
                                  | 18/160 [02:54<22:23, 9.46s/it]masks_dr unique: tensor([-7.
     8998, -7.8901, -7.8658, ..., 12.0081, 12.0081, 12.0111],
```

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grad fn=<Unique2Backward0>)
12763
12764 masks_dr unique: tensor([-7.8998, -7.8901, -7.8658, ..., 12.0081, 12.0081, 12.0111],
            grad_fn=<Unique2Backward0>)
                                  | 19/160 [03:04<22:17, 9.48s/it]print dice: 0.
12766 Epoch 32/499: 12%
     4999881982803345, print_iou: 0.3333228528499603
12767 masks_dr unique: tensor([-7.6848, -7.6771, -7.6617, ..., 11.8794, 11.8858, 11.8879],
            grad fn=<Unique2Backward0>)
12768
12769 masks_dr unique: tensor([-7.6848, -7.6771, -7.6617, ..., 11.8794, 11.8858, 11.8879],
            grad_fn=<Unique2Backward0>)
12770
12771 print dice: 0.5391680598258972, print iou: 0.36908286809921265
                              | 20/160 [03:13<22:01, 9.44s/it]masks_dr unique: tensor([-8.
12772 Epoch 32/499: 12%
      1975, -8.1898, -8.1805, ..., 12.7812, 12.7842, 12.7883],
            grad_fn=<Unique2Backward0>)
12773
12774 masks_dr unique: tensor([-8.1975, -8.1898, -8.1805, ..., 12.7812, 12.7842, 12.7883],
12775
            grad fn=<Unique2Backward0>)
12776 print_dice: 0.46821096539497375, print_iou: 0.3056628406047821
12777 Epoch 32/499: 13%|■
                             | 21/160 [03:23<21:49, 9.42s/it]masks_dr unique: tensor([-7.
      9021, -7.8924, -7.8681, ..., 12.0121, 12.0121, 12.0152],
12778
            grad_fn=<Unique2Backward0>)
12779 masks_dr unique: tensor([-7.9021, -7.8924, -7.8681, ..., 12.0121, 12.0121, 12.0152],
12780
            grad_fn=<Unique2Backward0>)
12781 Epoch 32/499: 14%
                                  | 22/160 [03:32<21:44, 9.46s/it]print_dice: 0.
      5614234805107117, print_iou: 0.3902631998062134
12782 masks_dr unique: tensor([-7.9032, -7.8936, -7.8693, ..., 12.0136, 12.0136, 12.0166],
            grad_fn=<Unique2Backward0>)
12783
12784 masks dr unique: tensor([-7.9032, -7.8936, -7.8693, ..., 12.0136, 12.0136, 12.0166],
            grad fn=<Unique2Backward0>)
12785
12786 Epoch 32/499: 14%
                                 23/160 [03:42<22:02, 9.65s/it]print dice: 0.
      5860984921455383, print_iou: 0.4145256578922272
12787 masks dr unique: tensor([-7.9025, -7.8930, -7.8687, ..., 12.0107, 12.0108, 12.0138],
            grad fn=<Unique2Backward0>)
12788
12789 masks_dr unique: tensor([-7.9025, -7.8930, -7.8687, ..., 12.0107, 12.0108, 12.0138],
            grad_fn=<Unique2Backward0>)
12791 Epoch 32/499: 15%
                                  24/160 [03:52<21:44, 9.59s/it]print_dice: 0.
      5038031935691833, print_iou: 0.3367225229740143
12792 masks_dr unique: tensor([-7.9031, -7.8935, -7.8693, ..., 12.0126, 12.0131, 12.0159],
            grad_fn=<Unique2Backward0>)
12793
12794 masks_dr unique: tensor([-7.9031, -7.8935, -7.8693, ..., 12.0126, 12.0131, 12.0159],
            grad_fn=<Unique2Backward0>)
12795
12796 Epoch 32/499: 16%
                                 | 25/160 [04:01<21:34, 9.59s/it]print_dice: 0.
      5353394746780396, print_iou: 0.36550411581993103
12797 masks_dr unique: tensor([-8.2230, -8.2115, -8.2059, ..., 12.8992, 12.9015, 12.9070],
12798
            grad_fn=<Unique2Backward0>)
12799 masks_dr unique: tensor([-8.2230, -8.2115, -8.2059, ..., 12.8992, 12.9015, 12.9070],
12800
            grad_fn=<Unique2Backward0>)
12801 print_dice: 0.5756673216819763, print_iou: 0.4041663408279419
12802 Epoch 32/499: 16%
                               | 26/160 [04:11<21:26, 9.60s/it]masks_dr unique: tensor([-7.
      6013, -7.5983, -7.5852, ..., 13.5036, 13.5039, 13.5051],
12803
            grad_fn=<Unique2Backward0>)
12804 masks_dr unique: tensor([-7.6013, -7.5983, -7.5852, ..., 13.5036, 13.5039, 13.5051],
12805
            grad_fn=<Unique2Backward0>)
12806 print_dice: 0.5243777632713318, print_iou: 0.3553604185581207
12807 Epoch 32/499: 17%
                                 | 27/160 [04:21<21:15, 9.59s/it]masks_dr unique: tensor([-7.
      7548, -7.7546, -7.7451, ..., 13.4282, 13.4287, 13.4327],
            grad_fn=<Unique2Backward0>)
12809 masks_dr unique: tensor([-7.7548, -7.7546, -7.7451, ..., 13.4282, 13.4287, 13.4327],
            grad_fn=<Unique2Backward0>)
12810
12811 Epoch 32/499: 18% ■
                                  28/160 [04:30<21:00,
                                                         9.55s/it]print_dice: 0.
                         print iou: 0.34912630915641785
      5175591111183167,
12812 masks_dr unique: tensor([-7.7206, -7.7159, -7.6970,
                                                          \dots, 12.4204, 12.4277, 12.4320],
            grad_fn=<Unique2Backward0>)
12813
12814 masks_dr unique: tensor([-7.7206, -7.7159, -7.6970,
                                                          ..., 12.4204, 12.4277, 12.4320],
            grad_fn=<Unique2Backward0>)
12815
12816 Epoch 32/499: 18%
                                  29/160 [04:39<20:41,
                                                          9.47s/it]print_dice: 0.
                         print_iou: 0.35027387738227844
      5188190340995789,
12817 masks dr unique: tensor([-7.7774, -7.7553, -7.7503,
                                                         ..., 12.1263, 12.1328, 12.1370],
12818
            grad fn=<Unique2Backward0>)
12819 masks_dr unique: tensor([-7.7774, -7.7553, -7.7503, ..., 12.1263, 12.1328, 12.1370],
            grad fn=<Unique2Backward0>)
12820
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12821 print dice: 0.5012312531471252, print iou: 0.33442869782447815
12822 Epoch 32/499: 19% 30/160 [04:49<20:29, 9.46s/it] masks_dr unique: tensor([-7.
     9060, -7.8964, -7.8723, ..., 12.0128, 12.0133, 12.0162],
            grad fn=<Unique2Backward0>)
12823
12824 masks_dr unique: tensor([-7.9060, -7.8964, -7.8723, ..., 12.0128, 12.0133, 12.0162],
            grad_fn=<Unique2Backward0>)
12825
12826 Epoch 32/499: 19%
                                 | 31/160 [04:58<20:24, 9.49s/it]print_dice: 0.
     5245106220245361, print_iou: 0.3554824888706207
12827 masks_dr unique: tensor([-8.1734, -8.1675, -8.1522, ..., 13.1848, 13.1924, 13.1954],
12828
            grad fn=<Unique2Backward0>)
12829 masks dr unique: tensor([-8.1734, -8.1675, -8.1522, ..., 13.1848, 13.1924, 13.1954],
            grad_fn=<Unique2Backward0>)
12830
12831 Epoch 32/499: 20%
                                 | 32/160 [05:08<20:17, 9.51s/it]print_dice: 0.
     5136629939079285, print iou: 0.34558987617492676
12832 masks_dr unique: tensor([-8.2358, -8.2269, -8.2107, ..., 12.7937, 12.7943, 12.7980],
            grad_fn=<Unique2Backward0>)
12834 masks_dr unique: tensor([-8.2358, -8.2269, -8.2107, ..., 12.7937, 12.7943, 12.7980],
            grad_fn=<Unique2Backward0>)
12835
12836 Epoch 32/499: 21%
                                  | 33/160 [05:17<20:04, 9.48s/it]print_dice: 0.
     5087922215461731, print_iou: 0.3411947190761566
12837 masks_dr unique: tensor([-8.2238, -8.2165, -8.1967, ..., 12.6083, 12.6097, 12.6132],
12838
            grad_fn=<Unique2Backward0>)
12839 masks_dr unique: tensor([-8.2238, -8.2165, -8.1967, ..., 12.6083, 12.6097, 12.6132],
12840
            grad fn=<Unique2Backward0>)
12841 Epoch 32/499: 21%
                                  | 34/160 [05:27<19:53, 9.47s/it]print_dice: 0.53763747215271
         print_iou: 0.3676499128341675
12842 masks dr unique: tensor([-7.9079, -7.8984, -7.8742, ..., 12.0130, 12.0131, 12.0161],
            grad_fn=<Unique2Backward0>)
12844 masks_dr unique: tensor([-7.9079, -7.8984, -7.8742, ..., 12.0130, 12.0131, 12.0161],
            grad fn=<Unique2Backward0>)
12845
12846 print_dice: 0.4729471504688263, print_iou: 0.30971235036849976
12847 Epoch 32/499: 22% ■ | 35/160 [05:36<19:49, 9.52s/it]masks_dr unique: tensor([-7.
     4689, -7.4615, -7.4533, ..., 12.0147, 12.0174, 12.0183],
12848
            grad_fn=<Unique2Backward0>)
12849 masks_dr unique: tensor([-7.4689, -7.4615, -7.4533, ..., 12.0147, 12.0174, 12.0183],
            grad_fn=<Unique2Backward0>)
12851 Epoch 32/499: 22%
                                 | 36/160 [05:46<19:36, 9.49s/it]print_dice: 0.
     5929723381996155, print_iou: 0.4214361608028412
12852 masks_dr unique: tensor([-7.8650, -7.8544, -7.8358, ..., 13.4780, 13.4789, 13.4831],
            grad fn=<Unique2Backward0>)
12853
12854 masks_dr unique: tensor([-7.8650, -7.8544, -7.8358, ..., 13.4780, 13.4789, 13.4831],
            grad_fn=<Unique2Backward0>)
12856 Epoch 32/499: 23%
                              | 37/160 [05:55<19:19, 9.43s/it]print_dice: 0.
     5562605857849121, print_iou: 0.38529151678085327
12857 masks_dr unique: tensor([-8.1785, -8.1694, -8.1500, ..., 13.6489, 13.6519, 13.6530],
            grad_fn=<Unique2Backward0>)
12859 masks_dr unique: tensor([-8.1785, -8.1694, -8.1500, ..., 13.6489, 13.6519, 13.6530],
            grad_fn=<Unique2Backward0>)
12860
12861 Epoch 32/499: 24%
                                  | 38/160 [06:04<19:08, 9.42s/it]print_dice: 0.
     5373032689094543, print_iou: 0.3673374354839325
12862 masks_dr unique: tensor([-8.1207, -8.1050, -8.1034, ..., 13.4658, 13.4677, 13.4690],
            grad_fn=<Unique2Backward0>)
12863
12864 masks_dr unique: tensor([-8.1207, -8.1050, -8.1034, ..., 13.4658, 13.4677, 13.4690],
12865
            grad_fn=<Unique2Backward0>)
12866 print_dice: 0.4975045919418335, print_iou: 0.3311188817024231
12867 Epoch 32/499: 24% 39/160 [06:14<19:05, 9.47s/it] masks_dr unique: tensor([-7.
     5161, -7.5057, -7.4982, ..., 13.1467, 13.1475, 13.1506],
12868
            grad_fn=<Unique2Backward0>)
12869 masks_dr unique: tensor([-7.5161, -7.5057, -7.4982, ..., 13.1467, 13.1475, 13.1506],
            grad_fn=<Unique2Backward0>)
12870
12871 Epoch 32/499: 25%
                                  40/160 [06:23<18:51,
                                                         9.43s/it]print_dice: 0.
                        print iou: 0.3400026261806488
     5074656009674072,
12872 masks_dr unique: tensor([-7.9099, -7.9002, -7.8759, ..., 12.0181, 12.0187, 12.0215],
            grad fn=<Unique2Backward0>)
12873
12874 masks_dr unique: tensor([-7.9099, -7.9002, -7.8759,
                                                         ..., 12.0181, 12.0187, 12.0215],
            grad_fn=<Unique2Backward0>)
12875
12876 Epoch 32/499: 26%
                                  41/160 [06:33<18:50,
                                                         9.50s/it]print_dice: 0.
     5396683216094971,
                        print_iou: 0.3695518672466278
12877 masks_dr unique: tensor([-7.9101, -7.9004, -7.8761, ..., 12.0182, 12.0187, 12.0216],
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12878
            grad fn=<Unique2Backward0>)
12879 masks_dr unique: tensor([-7.9101, -7.9004, -7.8761, ..., 12.0182, 12.0187, 12.0216],
            grad_fn=<Unique2Backward0>)
12881 Epoch 32/499: 26%
                                42/160 [06:42<18:39, 9.48s/it]print dice: 0.
     5263635516166687, print_iou: 0.35718685388565063
12882 masks_dr unique: tensor([-7.8965, -7.8802, -7.8794, ..., 12.9525, 12.9526, 12.9545],
            grad fn=<Unique2Backward0>)
12884 masks_dr unique: tensor([-7.8965, -7.8802, -7.8794, ..., 12.9525, 12.9526, 12.9545],
            grad_fn=<Unique2Backward0>)
12885
12886 Epoch 32/499: 27%
                                43/160 [06:52<18:27,
                                                       9.46s/it|print dice: 0.
     41362813115119934, print_iou: 0.26073843240737915
12887 masks_dr unique: tensor([-8.1417, -8.1282, -8.1171, ..., 13.2509, 13.2528, 13.2531],
            grad_fn=<Unique2Backward0>)
12888
12889 masks_dr unique: tensor([-8.1417, -8.1282, -8.1171, ..., 13.2509, 13.2528, 13.2531],
            grad fn=<Unique2Backward0>)
12890
12891 Epoch 32/499: 28%
                                | 44/160 [07:01<18:16, 9.45s/it]print_dice: 0.
     5250112414360046, print_iou: 0.3559425473213196
12892 masks_dr unique: tensor([-7.6806, -7.6736, -7.6701, ..., 12.1279, 12.1320, 12.1343],
12893
            grad_fn=<Unique2Backward0>)
12894 masks_dr unique: tensor([-7.6806, -7.6736, -7.6701, ..., 12.1279, 12.1320, 12.1343],
            grad_fn=<Unique2Backward0>)
12895
12896 Epoch 32/499: 28%
                                | 45/160 [07:11<18:11, 9.49s/it]print_dice: 0.
     5120630264282227, print_iou: 0.34414297342300415
12897 masks_dr unique: tensor([-7.7156, -7.7063, -7.6829, ..., 12.5132, 12.5156, 12.5192],
            grad fn=<Unique2Backward0>)
12899 masks_dr unique: tensor([-7.7156, -7.7063, -7.6829, ..., 12.5132, 12.5156, 12.5192],
            grad fn=<Unique2Backward0>)
12900
12901 print dice: 0.4830421507358551, print iou: 0.3184281885623932
9116, -7.9019, -7.8775, ..., 12.0218, 12.0225, 12.0253],
            grad fn=<Unique2Backward0>)
12903
12904 masks_dr unique: tensor([-7.9116, -7.9019, -7.8775, ..., 12.0218, 12.0225, 12.0253],
            grad_fn=<Unique2Backward0>)
12906 print_dice: 0.46843403577804565, print_iou: 0.305853009223938
9752, -7.9721, -7.9691, ..., 13.4953, 13.4968, 13.4980],
            grad_fn=<Unique2Backward0>)
12908
12909 masks_dr unique: tensor([-7.9752, -7.9721, -7.9691, ..., 13.4953, 13.4968, 13.4980],
            grad_fn=<Unique2Backward0>)
12910
12911 Epoch 32/499: 30%
                               48/160 [07:39<17:40, 9.47s/it]print dice: 0.
     5646499395370483, print_iou: 0.3933883011341095
12912 masks_dr unique: tensor([-8.2002, -8.1958, -8.1789, ..., 12.8476, 12.8489, 12.8491],
            grad_fn=<Unique2Backward0>)
12913
12914 masks_dr unique: tensor([-8.2002, -8.1958, -8.1789, ..., 12.8476, 12.8489, 12.8491],
12915
            grad_fn=<Unique2Backward0>)
12916 print_dice: 0.5036607384681702, print_iou: 0.3365952968597412
12917 Epoch 32/499: 31%
                            | 49/160 [07:49<17:36, 9.52s/it]masks_dr unique: tensor([-7.
     9339, -7.9210, -7.9085, ..., 12.5640, 12.5705, 12.5749],
12918
            grad_fn=<Unique2Backward0>)
12919 masks_dr unique: tensor([-7.9339, -7.9210, -7.9085, ..., 12.5640, 12.5705, 12.5749],
12920
            grad_fn=<Unique2Backward0>)
                                | 50/160 [07:59<17:33, 9.58s/it]print_dice: 0.
12921 Epoch 32/499: 31%
     5194907784461975, print_iou: 0.35088658332824707
12922 masks_dr unique: tensor([-8.0147, -8.0014, -7.9910, ..., 12.6269, 12.6332, 12.6369],
            grad_fn=<Unique2Backward0>)
12924 masks_dr unique: tensor([-8.0147, -8.0014, -7.9910, ..., 12.6269, 12.6332, 12.6369],
            grad fn=<Unique2Backward0>)
12925
12926 print_dice: 0.5108060836791992,
                                     print_iou: 0.343008428812027
12927 Epoch 32/499: 32%
                                | 51/160 [08:08<17:23, 9.57s/it]masks_dr unique: tensor([-8.
     1435, -8.1406, -8.1188, ..., 12.4323, 12.4362, 12.4364],
            grad_fn=<Unique2Backward0>)
12928
12929 masks_dr unique: tensor([-8.1435, -8.1406, -8.1188, ..., 12.4323, 12.4362, 12.4364],
            grad fn=<Unique2Backward0>)
12930
12931 Epoch 32/499: 32%
                                 52/160 [08:17<17:03, 9.48s/it]print_dice: 0.
     5446150302886963, print_iou: 0.3742068409919739
12932 masks_dr unique: tensor([-7.9144, -7.9047, -7.8804, ..., 12.0216, 12.0220, 12.0249],
12933
            grad fn=<Unique2Backward0>)
12934 masks dr unique: tensor([-7.9144, -7.9047, -7.8804, ..., 12.0216, 12.0220, 12.0249],
            grad fn=<Unique2Backward0>)
12935
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12936 print dice: 0.5467324256896973, print iou: 0.3762090504169464
12937 Epoch 32/499: 33% 53/160 [08:27<16:59, 9.53s/it]masks_dr unique: tensor([-7.
     6612, -7.6502, -7.6427, ..., 11.8537, 11.8615, 11.8650],
            grad fn=<Unique2Backward0>)
12938
12939 masks_dr unique: tensor([-7.6612, -7.6502, -7.6427, ..., 11.8537, 11.8615, 11.8650],
            grad fn=<Unique2Backward0>)
12941 print_dice: 0.5055068135261536, print_iou: 0.33824631571769714
                             | 54/160 [08:36<16:47, 9.51s/it]masks_dr unique: tensor([-7.
12942 Epoch 32/499: 34%
     9155, -7.9059, -7.8816, ..., 12.0224, 12.0228, 12.0257],
12943
            grad fn=<Unique2Backward0>)
12944 masks_dr unique: tensor([-7.9155, -7.9059, -7.8816, ..., 12.0224, 12.0228, 12.0257],
            grad fn=<Unique2Backward0>)
12945
12946 Epoch 32/499: 34%
                              | 55/160 [08:46<16:41, 9.54s/it]print_dice: 0.
     5164666771888733, print iou: 0.34813281893730164
12947 masks_dr unique: tensor([-7.9168, -7.9071, -7.8828, ..., 12.0235, 12.0240, 12.0269],
            grad_fn=<Unique2Backward0>)
12949 masks_dr unique: tensor([-7.9168, -7.9071, -7.8828, ..., 12.0235, 12.0240, 12.0269],
12950
            grad fn=<Unique2Backward0>)
12951 print_dice: 0.5381421446800232, print_iou: 0.36812204122543335
12952 Epoch 32/499: 35%| | 56/160 [08:55<16:25, 9.48s/it]masks_dr unique: tensor([-7.
     9151, -7.9054, -7.8810, ..., 12.0268, 12.0270, 12.0300],
12953
            grad_fn=<Unique2Backward0>)
12954 masks_dr unique: tensor([-7.9151, -7.9054, -7.8810, ..., 12.0268, 12.0270, 12.0300],
            grad fn=<Unique2Backward0>)
12955
12956 Epoch 32/499: 36%
                                57/160 [09:05<16:14, 9.46s/it]print_dice: 0.
     44681525230407715, print_iou: 0.2876768112182617
12957 masks_dr unique: tensor([-8.1472, -8.1407, -8.1402, ..., 12.7181, 12.7202, 12.7248],
            grad_fn=<Unique2Backward0>)
12958
12959 masks_dr unique: tensor([-8.1472, -8.1407, -8.1402, ..., 12.7181, 12.7202, 12.7248],
            grad fn=<Unique2Backward0>)
12960
                                | 58/160 [09:14<16:02, 9.44s/it]print dice: 0.499514102935791
12961 Epoch 32/499: 36% ■ ■ ■
         print iou: 0.33290156722068787
12962 masks_dr unique: tensor([-7.9190, -7.9092, -7.8849, ..., 12.0224, 12.0228, 12.0257],
12963
            grad fn=<Unique2Backward0>)
12964 masks dr unique: tensor([-7.9190, -7.9092, -7.8849, \ldots, 12.0224, 12.0228, 12.0257]
            grad_fn=<Unique2Backward0>)
12966 print_dice: 0.5472638010978699, print_iou: 0.376712441444397
12967 Epoch 32/499: 37% 59/160 [09:24<15:56, 9.47s/it] masks_dr unique: tensor([-7.
     9185, -7.9088, -7.8845, ..., 12.0261, 12.0266, 12.0295],
            grad fn=<Unique2Backward0>)
12968
12969 masks_dr unique: tensor([-7.9185, -7.9088, -7.8845, ..., 12.0261, 12.0266, 12.0295],
            grad_fn=<Unique2Backward0>)
12970
12971 Epoch 32/499: 38% 60/160 [09:33<15:49, 9.50s/it]print_dice: 0.
     5627532005310059, print_iou: 0.3915494680404663
12972 masks_dr unique: tensor([-7.6775, -7.6698, -7.6672, ..., 12.6509, 12.6538, 12.6576],
            grad_fn=<Unique2Backward0>)
12974 masks_dr unique: tensor([-7.6775, -7.6698, -7.6672, ..., 12.6509, 12.6538, 12.6576],
            grad_fn=<Unique2Backward0>)
12975
12976 print_dice: 0.528035044670105, print_iou: 0.3587280213832855
9180, -7.9083, -7.8841, ..., 12.0253, 12.0258, 12.0287],
12978
            grad_fn=<Unique2Backward0>)
12979 masks_dr unique: tensor([-7.9180, -7.9083, -7.8841, ..., 12.0253, 12.0258, 12.0287],
12980
            grad fn=<Unique2Backward0>)
12981 Epoch 32/499: 39%| | 62/160 [09:52<15:26, 9.45s/it]print_dice: 0.
     5936693549156189, print_iou: 0.4221406877040863
12982 masks_dr unique: tensor([-7.9184, -7.9086, -7.8845, ..., 12.0254, 12.0257, 12.0287],
            grad_fn=<Unique2Backward0>)
12983
12984 masks_dr unique: tensor([-7.9184, -7.9086, -7.8845, ..., 12.0254, 12.0257, 12.0287],
            grad fn=<Unique2Backward0>)
12985
12986 Epoch 32/499: 39%
                                 | 63/160 [10:02<15:21,
                                                        9.50s/it]print_dice: 0.
                       print_iou: 0.3868560194969177
     5578892230987549,
12987 masks_dr unique: tensor([-8.1272, -8.1096, -8.1079, ..., 13.3861, 13.3878, 13.3888],
            grad fn=<Unique2Backward0>)
12988
12989 masks_dr unique: tensor([-8.1272, -8.1096, -8.1079, ..., 13.3861, 13.3878, 13.3888],
            grad_fn=<Unique2Backward0>)
12990
12991 Epoch 32/499: 40%
                                 | 64/160 [10:12<15:20,
                                                        9.59s/it]print_dice: 0.529630720615387
         print iou: 0.3602025508880615
12992 masks_dr unique: tensor([-8.2254, -8.2102, -8.2051, ..., 12.3055, 12.3057, 12.3084],
```

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12993
            grad fn=<Unique2Backward0>)
12994 masks_dr unique: tensor([-8.2254, -8.2102, -8.2051, ..., 12.3055, 12.3057, 12.3084],
            grad_fn=<Unique2Backward0>)
                                  | 65/160 [10:21<15:11, 9.59s/it]print dice: 0.
12996 Epoch 32/499: 41%
     4885619580745697, print_iou: 0.323243111371994
12997 masks_dr unique: tensor([-7.8546, -7.8525, -7.8384, ..., 13.4695, 13.4699, 13.4708],
            grad fn=<Unique2Backward0>)
12999 masks_dr unique: tensor([-7.8546, -7.8525, -7.8384, ..., 13.4695, 13.4699, 13.4708],
            grad_fn=<Unique2Backward0>)
13000
13001 print dice: 0.45053279399871826,
                                       print iou: 0.29076626896858215
                                | 66/160 [10:31<14:56, 9.54s/it]masks_dr unique: tensor([-7.
13002 Epoch 32/499: 41%
     9210, -7.9111, -7.8872, ..., 12.0281, 12.0283, 12.0313],
            grad fn=<Unique2Backward0>)
13003
13004 masks_dr unique: tensor([-7.9210, -7.9111, -7.8872, ..., 12.0281, 12.0283, 12.0313],
            grad_fn=<Unique2Backward0>)
13005
13006 Epoch 32/499: 42%
                                  | 67/160 [10:40<14:43, 9.50s/it]print_dice: 0.
     5794418454170227, print_iou: 0.40789732336997986
13007 masks_dr unique: tensor([-8.0701, -8.0612, -8.0465, ..., 13.1457, 13.1464, 13.1505],
13008
            grad_fn=<Unique2Backward0>)
13009 masks_dr unique: tensor([-8.0701, -8.0612, -8.0465, ..., 13.1457, 13.1464, 13.1505],
            grad_fn=<Unique2Backward0>)
13010
13011 print_dice: 0.5105053782463074, print_iou: 0.3427372872829437
13012 Epoch 32/499: 42% 68/160 [10:49<14:30, 9.46s/it] masks dr unique: tensor([-8.
     1427, -8.1329, -8.1321, ..., 13.1762, 13.1778, 13.1780],
            grad_fn=<Unique2Backward0>)
13013
13014 masks_dr unique: tensor([-8.1427, -8.1329, -8.1321, ..., 13.1762, 13.1778, 13.1780],
            grad fn=<Unique2Backward0>)
13015
13016 Epoch 32/499: 43%
                              69/160 [10:59<14:24, 9.50s/it]print dice: 0.
     5885583758354187, print_iou: 0.4169909656047821
13017 masks_dr unique: tensor([-7.9436, -7.9374, -7.9323, ..., 13.1494, 13.1513, 13.1555],
            grad fn=<Unique2Backward0>)
13019 masks dr unique: tensor([-7.9436, -7.9374, -7.9323, ..., 13.1494, 13.1513, 13.1555],
            grad_fn=<Unique2Backward0>)
                                 | 70/160 [11:08<14:13, 9.48s/it]print dice: 0.
13021 Epoch 32/499: 44%
     4477880299091339, print iou: 0.28848379850387573
13022 masks_dr unique: tensor([-7.4996, -7.4892, -7.4680,
                                                        ..., 13.0768, 13.0781, 13.0785],
            grad_fn=<Unique2Backward0>)
13023
13024 masks_dr unique: tensor([-7.4996, -7.4892, -7.4680, ..., 13.0768, 13.0781, 13.0785],
            grad_fn=<Unique2Backward0>)
13025
13026 Epoch 32/499: 44%
                                 71/160 [11:18<13:55,
                                                         9.39s/it]print_dice: 0.
     4885106682777405, print_iou: 0.32319819927215576
13027 masks_dr unique: tensor([-7.9302, -7.9190, -7.9140, ..., 12.9077, 12.9094, 12.9105],
            grad_fn=<Unique2Backward0>)
13028
13029 masks_dr unique: tensor([-7.9302, -7.9190, -7.9140, ..., 12.9077, 12.9094, 12.9105],
            grad_fn=<Unique2Backward0>)
13030
13031 Epoch 32/499: 45%
                                 | 72/160 [11:27<13:48, 9.41s/it]print_dice: 0.
     5380684733390808, print_iou: 0.368053138256073
13032 masks_dr unique: tensor([-8.1284, -8.1284, -8.1205, ..., 13.4547, 13.4550, 13.4559],
            grad fn=<Unique2Backward0>)
13034 masks_dr unique: tensor([-8.1284, -8.1284, -8.1205, ..., 13.4547, 13.4550, 13.4559],
13035
            grad_fn=<Unique2Backward0>)
13036 Epoch 32/499: 46%
                                  73/160 [11:37<13:46,
                                                         9.50s/it]print_dice: 0.
     5416480302810669, print_iou: 0.3714110553264618
13037 masks_dr unique: tensor([-7.9227, -7.9128, -7.8891, ..., 12.0334, 12.0335, 12.0365],
            grad_fn=<Unique2Backward0>)
13039 masks_dr unique: tensor([-7.9227, -7.9128, -7.8891, ..., 12.0334, 12.0335, 12.0365],
            grad fn=<Unique2Backward0>)
13040
13041 print_dice: 0.4791969954967499,
                                      print_iou: 0.3150947093963623
13042 Epoch 32/499: 46%
                                  74/160 [11:46<13:39, 9.53s/it]masks_dr unique: tensor([-7.
     9236, -7.9136, -7.8899, ..., 12.0340, 12.0341, 12.0372],
            grad fn=<Unique2Backward0>)
13043
13044 masks_dr unique: tensor([-7.9236, -7.9136, -7.8899, ..., 12.0340, 12.0341, 12.0372],
            grad fn=<Unique2Backward0>)
13045
13046 Epoch 32/499: 47%
                                  75/160 [11:56<13:24, 9.46s/it]print_dice: 0.
     5188149809837341, print_iou: 0.35027021169662476
13047 masks_dr unique: tensor([-7.4332, -7.4221, -7.4116, ..., 12.6107, 12.6109, 12.6157],
13048
            grad fn=<Unique2Backward0>)
13049 masks dr unique: tensor([-7.4332, -7.4221, -7.4116, ..., 12.6107, 12.6109, 12.6157],
13050
            grad fn=<Unique2Backward0>)
```

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13051 print dice: 0.6136708855628967, print iou: 0.4426589012145996
13052 Epoch 32/499: 48% 76/160 [12:05<13:12, 9.43s/it] masks_dr unique: tensor([-7.
     9250, -7.9150, -7.8913, ..., 12.0314, 12.0317, 12.0347],
13053
            grad fn=<Unique2Backward0>)
13054 masks_dr unique: tensor([-7.9250, -7.9150, -7.8913, ..., 12.0314, 12.0317, 12.0347],
           grad fn=<Unique2Backward0>)
13056 print dice: 0.5716872811317444, print iou: 0.400253564119339
13057 Epoch 32/499: 48%
     9244, -7.9145, -7.8907, ..., 12.0304, 12.0306, 12.0336],
13058
            grad fn=<Unique2Backward0>)
13059 masks_dr unique: tensor([-7.9244, -7.9145, -7.8907, ..., 12.0304, 12.0306, 12.0336],
13060
            grad_fn=<Unique2Backward0>)
13061 Epoch 32/499: 49% 78/160 [12:24<12:53, 9.43s/it]print_dice: 0.
     44503849744796753, print_iou: 0.2862054705619812
13062 masks_dr unique: tensor([-7.9263, -7.9164, -7.8926, ..., 12.0324, 12.0329, 12.0357],
           grad_fn=<Unique2Backward0>)
13064 masks_dr unique: tensor([-7.9263, -7.9164, -7.8926, ..., 12.0324, 12.0329, 12.0357],
13065
            grad fn=<Unique2Backward0>)
13066 print_dice: 0.5478910803794861, print_iou: 0.3773071765899658
2203, -8.2050, -8.1951, ..., 12.2895, 12.2946, 12.3004],
13068
            grad_fn=<Unique2Backward0>)
13069 masks_dr unique: tensor([-8.2203, -8.2050, -8.1951, ..., 12.2895, 12.2946, 12.3004],
13070
           grad_fn=<Unique2Backward0>)
                               | 80/160 [12:43<12:38, 9.48s/it]print_dice: 0.
13071 Epoch 32/499: 50%
     5207825899124146, print_iou: 0.352066308259964
13072 masks_dr unique: tensor([-7.6233, -7.6034, -7.5878, ..., 11.9884, 11.9954, 12.0002],
13073
           grad_fn=<Unique2Backward0>)
13074 masks_dr unique: tensor([-7.6233, -7.6034, -7.5878, ..., 11.9884, 11.9954, 12.0002],
13075
            grad fn=<Unique2Backward0>)
13076 Epoch 32/499: 51%| | 81/160 [12:52<12:29, 9.48s/it]print_dice: 0.
     5952160954475403, print_iou: 0.4237065315246582
13077 masks_dr unique: tensor([-7.9242, -7.9144, -7.8906, ..., 12.0381, 12.0383, 12.0413],
13078
            grad fn=<Unique2Backward0>)
13079 masks dr unique: tensor([-7.9242, -7.9144, -7.8906, ..., 12.0381, 12.0383, 12.0413]
            grad_fn=<Unique2Backward0>)
13081 Epoch 32/499: 51%
                                82/160 [13:02<12:21, 9.51s/it]print_dice: 0.
     4396803379058838, print_iou: 0.2817886471748352
13082 masks_dr unique: tensor([-7.8090, -7.8011, -7.7868, ..., 12.1279, 12.1333, 12.1373],
            grad fn=<Unique2Backward0>)
13083
13084 masks_dr unique: tensor([-7.8090, -7.8011, -7.7868, ..., 12.1279, 12.1333, 12.1373],
           grad_fn=<Unique2Backward0>)
13086 print_dice: 0.5561624765396118, print_iou: 0.3851974308490753
13087 Epoch 32/499: 52%
                             83/160 [13:12<12:14, 9.54s/it]masks_dr unique: tensor([-7.
     6789, -7.6745, -7.6588, ..., 12.3089, 12.3121, 12.3165],
13088
           grad_fn=<Unique2Backward0>)
13089 masks_dr unique: tensor([-7.6789, -7.6745, -7.6588, ..., 12.3089, 12.3121, 12.3165],
            grad_fn=<Unique2Backward0>)
13090
13091 Epoch 32/499: 52%
                                | 84/160 [13:21<12:05, 9.55s/it]print_dice: 0.
     5453267097473145, print_iou: 0.3748791515827179
13092 masks_dr unique: tensor([-8.0786, -8.0703, -8.0694, ..., 13.5349, 13.5351, 13.5364],
13093
            grad_fn=<Unique2Backward0>)
13094 masks_dr unique: tensor([-8.0786, -8.0703, -8.0694, ..., 13.5349, 13.5351, 13.5364],
13095
           grad_fn=<Unique2Backward0>)
13096 print_dice: 0.5152690410614014, print_iou: 0.3470453917980194
13097 Epoch 32/499: 53% | | 85/160 [13:31<11:52, 9.50s/it]masks_dr unique: tensor([-7.
     9270, -7.9174, -7.8934, ..., 12.0406, 12.0411, 12.0440],
13098
            grad_fn=<Unique2Backward0>)
13099 masks_dr unique: tensor([-7.9270, -7.9174, -7.8934, ..., 12.0406, 12.0411, 12.0440],
13100
            grad_fn=<Unique2Backward0>)
13101 print_dice: 0.6446751952171326,
                                    print_iou: 0.475661039352417
13102 Epoch 32/499: 54%
                               86/160 [13:40<11:41, 9.48s/it]masks_dr unique: tensor([-7.
     9260, -7.9165, -7.8926, ..., 12.0371, 12.0375, 12.0405],
            grad_fn=<Unique2Backward0>)
13103
13104 masks_dr unique: tensor([-7.9260, -7.9165, -7.8926, ..., 12.0371, 12.0375, 12.0405],
            grad_fn=<Unique2Backward0>)
13105
13106 Epoch 32/499: 54%
                                87/160 [13:50<11:36,
                                                      9.54s/it]print_dice: 0.
     5181587338447571, print iou: 0.34967222809791565
13107 masks_dr unique: tensor([-7.9255, -7.9161, -7.8923, ..., 12.0384, 12.0389, 12.0418],
```

```
13108
            grad fn=<Unique2Backward0>)
13109 masks_dr unique: tensor([-7.9255, -7.9161, -7.8923, ..., 12.0384, 12.0389, 12.0418],
            grad_fn=<Unique2Backward0>)
13111 Epoch 32/499: 55%
                                 | 88/160 [13:59<11:26, 9.53s/it]print dice: 0.
     5270790457725525, print_iou: 0.35784614086151123
13112 masks_dr unique: tensor([-7.9248, -7.9153, -7.8916, ..., 12.0398, 12.0403, 12.0432],
            grad fn=<Unique2Backward0>)
13114 masks_dr unique: tensor([-7.9248, -7.9153, -7.8916, ..., 12.0398, 12.0403, 12.0432],
            grad_fn=<Unique2Backward0>)
13115
13116 Epoch 32/499: 56%
                                89/160 [14:09<11:16, 9.53s/it]print dice: 0.
     5521618723869324, print iou: 0.3813699185848236
13117 masks_dr unique: tensor([-7.9254, -7.9160, -7.8923, ..., 12.0422, 12.0428, 12.0457],
            grad_fn=<Unique2Backward0>)
13118
13119 masks_dr unique: tensor([-7.9254, -7.9160, -7.8923, ..., 12.0422, 12.0428, 12.0457],
            grad fn=<Unique2Backward0>)
13120
13121 print_dice: 0.5836565494537354, print_iou: 0.4120868742465973
13122 Epoch 32/499: 56% 90/160 [14:18<11:05, 9.51s/it] masks_dr unique: tensor([-7.
     6415, -7.6388, -7.6341, ..., 12.2704, 12.2747, 12.2797],
13123
            grad_fn=<Unique2Backward0>)
13124 masks_dr unique: tensor([-7.6415, -7.6388, -7.6341, ..., 12.2704, 12.2747, 12.2797],
            grad_fn=<Unique2Backward0>)
13125
13126 Epoch 32/499: 57%
                                91/160 [14:28<10:57, 9.52s/it]print_dice: 0.
     6120811104774475, print_iou: 0.4410063922405243
13127 masks_dr unique: tensor([-7.9249, -7.9156, -7.8919, ..., 12.0412, 12.0413, 12.0444],
            grad_fn=<Unique2Backward0>)
13128
13129 masks dr unique: tensor([-7.9249, -7.9156, -7.8919, \ldots, 12.0412, 12.0413, 12.0444]
13130
            grad fn=<Unique2Backward0>)
13131 Epoch 32/499: 57% | 92/160 [14:37<10:46, 9.51s/it]print_dice: 0.
     47355759143829346, print_iou: 0.3102361261844635
13132 masks_dr unique: tensor([-7.9251, -7.9158, -7.8922, ..., 12.0397, 12.0402, 12.0431],
            grad fn=<Unique2Backward0>)
13134 masks_dr unique: tensor([-7.9251, -7.9158, -7.8922, ..., 12.0397, 12.0402, 12.0431],
            grad fn=<Unique2Backward0>)
13136 print_dice: 0.4414771795272827, print_iou: 0.28326642513275146
13137 Epoch 32/499: 58% 93/160 [14:47<10:39, 9.55s/it] masks_dr unique: tensor([-7.
     5567, -7.5562, -7.5485, ..., 13.0693, 13.0697, 13.0709],
            grad_fn=<Unique2Backward0>)
13138
13139 masks_dr unique: tensor([-7.5567, -7.5562, -7.5485, ..., 13.0693, 13.0697, 13.0709],
            grad_fn=<Unique2Backward0>)
13140
13141 Epoch 32/499: 59% 94/160 [14:56<10:25, 9.48s/it]print_dice: 0.
     4683308005332947, print_iou: 0.30576497316360474
13142 masks_dr unique: tensor([-7.8367, -7.8287, -7.8208, ..., 13.2575, 13.2578, 13.2593],
            grad_fn=<Unique2Backward0>)
13143
13144 masks_dr unique: tensor([-7.8367, -7.8287, -7.8208, ..., 13.2575, 13.2578, 13.2593],
            grad_fn=<Unique2Backward0>)
13145
4977874159812927, print_iou: 0.3313694894313812
13147 masks_dr unique: tensor([-7.9278, -7.9185, -7.8949, ..., 12.0459, 12.0463, 12.0492],
            grad_fn=<Unique2Backward0>)
13149 masks dr unique: tensor([-7.9278, -7.9185, -7.8949, \ldots, 12.0459, 12.0463, 12.0492]
13150
            grad_fn=<Unique2Backward0>)
13151 print_dice: 0.5851637125015259, print_iou: 0.4135911166667938
13152 Epoch 32/499: 60% 96/160 [15:15<10:03, 9.43s/it] masks_dr unique: tensor([-8.
     2625, -8.2476, -8.2362, ..., 12.4252, 12.4313, 12.4345],
            grad_fn=<Unique2Backward0>)
13154 masks_dr unique: tensor([-8.2625, -8.2476, -8.2362, ..., 12.4252, 12.4313, 12.4345],
            grad fn=<Unique2Backward0>)
13155
13156 print dice: 0.5394368767738342,
                                      print iou: 0.3693348467350006
13157 Epoch 32/499: 61%
                                 97/160 [15:25<09:59, 9.51s/it]masks_dr unique: tensor([-7.
     9257, -7.9164, -7.8928, ..., 12.0431, 12.0437, 12.0465],
            grad_fn=<Unique2Backward0>)
13158
13159 masks_dr unique: tensor([-7.9257, -7.9164, -7.8928, ..., 12.0431, 12.0437, 12.0465],
            grad_fn=<Unique2Backward0>)
13160
                                 98/160 [15:34<09:51,
13161 Epoch 32/499: 61%
                                                       9.54s/it]print dice: 0.
                         print_iou: 0.32463958859443665
     49015533924102783,
13162 masks dr unique: tensor([-7.9144, -7.8957, -7.8885,
                                                       ..., 11.9817, 11.9863, 11.9895],
13163
            grad fn=<Unique2Backward0>)
13164 masks_dr unique: tensor([-7.9144, -7.8957, -7.8885, ..., 11.9817, 11.9863, 11.9895],
            grad fn=<Unique2Backward0>)
13165
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13166 print dice: 0.4982806444168091, print iou: 0.3318067789077759
13167 Epoch 32/499: 62% 99/160 [15:44<09:42, 9.56s/it] masks_dr unique: tensor([-7.
     9289, -7.9196, -7.8960, ..., 12.0451, 12.0451, 12.0482],
            grad fn=<Unique2Backward0>)
13168
13169 masks_dr unique: tensor([-7.9289, -7.9196, -7.8960, ..., 12.0451, 12.0451, 12.0482],
            grad_fn=<Unique2Backward0>)
13171 print_dice: 0.5428690910339355, print_iou: 0.3725602924823761
13172 Epoch 32/499: 62% | 100/160 [15:53<09:30, 9.50s/it]masks_dr unique: tensor([-7.
     7448, -7.7340, -7.7232, ..., 12.3862, 12.3921, 12.3972],
            grad fn=<Unique2Backward0>)
13173
13174 masks_dr unique: tensor([-7.7448, -7.7340, -7.7232, ..., 12.3862, 12.3921, 12.3972],
            grad_fn=<Unique2Backward0>)
13175
13176 print_dice: 0.5307410359382629, print_iou: 0.36123040318489075
       [100/160] eta: 0:09:32 time: 9.5250 data: 0.0005
13177
13178 Epoch 32/499: 63% | 101/160 [16:03<09:24, 9.56s/it]masks_dr unique: tensor([-7.
     9284, -7.9191, -7.8955, ..., 12.0461, 12.0463, 12.0493],
13179
            grad_fn=<Unique2Backward0>)
13180 masks_dr unique: tensor([-7.9284, -7.9191, -7.8955, ..., 12.0461, 12.0463, 12.0493],
13181
            grad_fn=<Unique2Backward0>)
13182 print_dice: 0.5668056607246399, print_iou: 0.39548414945602417
13183 Epoch 32/499: 64% | 102/160 [16:13<09:14, 9.56s/it]masks_dr unique: tensor([-7.
     9279, -7.9187, -7.8951, ..., 12.0476, 12.0477, 12.0507],
13184
            grad fn=<Unique2Backward0>)
13185 masks_dr unique: tensor([-7.9279, -7.9187, -7.8951, ..., 12.0476, 12.0477, 12.0507],
            grad fn=<Unique2Backward0>)
13187 Epoch 32/499: 64%
                                | 103/160 [16:22<09:04, 9.56s/it]print dice: 0.
     5048338770866394, print iou: 0.33764398097991943
13188 masks_dr unique: tensor([-8.0881, -8.0796, -8.0779, ..., 13.5984, 13.6012, 13.6013],
            grad fn=<Unique2Backward0>)
13190 masks_dr unique: tensor([-8.0881, -8.0796, -8.0779, ..., 13.5984, 13.6012, 13.6013],
            grad_fn=<Unique2Backward0>)
13192 Epoch 32/499: 65%| | 104/160 [16:32<08:54, 9.55s/it]print_dice: 0.
     5073676705360413, print iou: 0.3399146795272827
13193 masks_dr unique: tensor([-7.5501, -7.5444, -7.5333, ..., 12.3464, 12.3483, 12.3494],
            grad_fn=<Unique2Backward0>)
13195 masks_dr unique: tensor([-7.5501, -7.5444, -7.5333, ..., 12.3464, 12.3483, 12.3494],
            grad_fn=<Unique2Backward0>)
13196
13197 Epoch 32/499: 66% 105/160 [16:41<08:46, 9.58s/it]print_dice: 0.
     4830889105796814, print_iou: 0.31846883893013
13198 masks_dr unique: tensor([-7.9296, -7.9202, -7.8966, ..., 12.0471, 12.0472, 12.0502],
            grad fn=<Unique2Backward0>)
13199
13200 masks_dr unique: tensor([-7.9296, -7.9202, -7.8966, ..., 12.0471, 12.0472, 12.0502],
            grad_fn=<Unique2Backward0>)
13201
13202 Epoch 32/499: 66%
                                | 106/160 [16:51<08:38, 9.60s/it]print_dice: 0.
     5133362412452698, print_iou: 0.34529411792755127
13203 masks_dr unique: tensor([-7.9287, -7.9193, -7.8957, ..., 12.0485, 12.0485, 12.0516],
13204
            grad_fn=<Unique2Backward0>)
13205 masks_dr unique: tensor([-7.9287, -7.9193, -7.8957, ..., 12.0485, 12.0485, 12.0516],
13206
            grad_fn=<Unique2Backward0>)
13207 Epoch 32/499: 67% | 107/160 [17:01<08:30, 9.63s/it]print_dice: 0.
     47802215814590454, print_iou: 0.3140795826911926
13208 masks_dr unique: tensor([-8.3555, -8.3434, -8.3285, ..., 13.5146, 13.5163, 13.5209],
13209
            grad_fn=<Unique2Backward0>)
13210 masks_dr unique: tensor([-8.3555, -8.3434, -8.3285, ..., 13.5146, 13.5163, 13.5209],
            grad_fn=<Unique2Backward0>)
13212 Epoch 32/499: 68%| | 108/160 [17:10<08:20, 9.63s/it]print_dice: 0.
     45434194803237915, print_iou: 0.2939472496509552
13213 masks_dr unique: tensor([-7.6203, -7.6199, -7.5953, ..., 12.1139, 12.1210, 12.1251],
            grad fn=<Unique2Backward0>)
13215 masks_dr unique: tensor([-7.6203, -7.6199, -7.5953, ..., 12.1139, 12.1210, 12.1251],
            grad_fn=<Unique2Backward0>)
13216
13217 Epoch 32/499: 68%| | 109/160 [17:20<08:07, 9.56s/it]print_dice: 0.
     44871029257774353, print_iou: 0.28924983739852905
13218 masks_dr unique: tensor([-7.9021, -7.8992, -7.8873, ..., 12.5891, 12.5896, 12.5929],
            grad_fn=<Unique2Backward0>)
13219
13220 masks_dr unique: tensor([-7.9021, -7.8992, -7.8873, ..., 12.5891, 12.5896, 12.5929],
13221
            grad fn=<Unique2Backward0>)
13222 print_dice: 0.48197054862976074, print iou: 0.31749749183654785
13223 Epoch 32/499: 69% | 110/160 [17:29<07:57, 9.56s/it]masks dr unique: tensor([-7.
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13223 9301, -7.9207, -7.8969, ..., 12.0508, 12.0513, 12.0542],
13224
            grad_fn=<Unique2Backward0>)
13225 masks dr unique: tensor([-7.9301, -7.9207, -7.8969, ..., 12.0508, 12.0513, 12.0542],
            grad fn=<Unique2Backward0>)
13226
13227 print_dice: 0.4614269733428955, print_iou: 0.29990580677986145
13228 Epoch 32/499: 69% | 111/160 [17:39<07:48, 9.57s/it]masks_dr unique: tensor([-7.
     9323, -7.9229, -7.8991, ..., 12.0518, 12.0523, 12.0552],
13229
            grad_fn=<Unique2Backward0>)
13230 masks_dr unique: tensor([-7.9323, -7.9229, -7.8991, ..., 12.0518, 12.0523, 12.0552],
13231
            grad fn=<Unique2Backward0>)
13232 print_dice: 0.5534799098968506, print_iou: 0.38262858986854553
13233 Epoch 32/499: 70% | 112/160 [17:48<07:38, 9.55s/it]masks_dr unique: tensor([-7.
     9572, -7.9543, -7.9360, ..., 12.3168, 12.3218, 12.3277],
13234
            grad fn=<Unique2Backward0>)
13235 masks_dr unique: tensor([-7.9572, -7.9543, -7.9360, ..., 12.3168, 12.3218, 12.3277],
            grad fn=<Unique2Backward0>)
13236
13237 Epoch 32/499: 71%| | 113/160 [17:58<07:28, 9.54s/it]print_dice: 0.
     5056617856025696, print_iou: 0.33838507533073425
13238 masks_dr unique: tensor([-7.9325, -7.9230, -7.8991, ..., 12.0538, 12.0543, 12.0572],
            grad fn=<Unique2Backward0>)
13240 masks_dr unique: tensor([-7.9325, -7.9230, -7.8991, ..., 12.0538, 12.0543, 12.0572],
            grad_fn=<Unique2Backward0>)
13242 Epoch 32/499: 71%| | 114/160 [18:07<07:17, 9.51s/it]print_dice: 0.
     5387227535247803, print iou: 0.3686656653881073
13243 masks_dr unique: tensor([-7.7525, -7.7494, -7.7352, ..., 13.4754, 13.4763, 13.4806],
            grad fn=<Unique2Backward0>)
13244
13245 masks_dr unique: tensor([-7.7525, -7.7494, -7.7352, ..., 13.4754, 13.4763, 13.4806],
            grad_fn=<Unique2Backward0>)
13246
13247 Epoch 32/499: 72%
                                | 115/160 [18:17<07:06, 9.48s/it]print_dice: 0.
     5566179156303406, print iou: 0.38563448190689087
13248 masks dr unique: tensor([-7.8866, -7.8844, -7.8660, ..., 12.2084, 12.2085, 12.2141],
13249
            grad_fn=<Unique2Backward0>)
13250 masks_dr unique: tensor([-7.8866, -7.8844, -7.8660, ..., 12.2084, 12.2085, 12.2141],
            grad fn=<Unique2Backward0>)
13251
13252 print_dice: 0.5585059523582458, print_iou: 0.38744932413101196
13253 Epoch 32/499: 72%| | 116/160 [18:26<06:59, 9.53s/it]masks_dr unique: tensor([-7.
     9339, -7.9243, -7.9002, ..., 12.0535, 12.0540, 12.0569],
13254
            grad_fn=<Unique2Backward0>)
13255 masks_dr unique: tensor([-7.9339, -7.9243, -7.9002, ..., 12.0535, 12.0540, 12.0569],
            grad fn=<Unique2Backward0>)
13256
13257 Epoch 32/499: 73%
                                | 117/160 [18:36<06:50, 9.56s/it]print_dice: 0.
     5369277000427246, print_iou: 0.3669864535331726
13258 masks_dr unique: tensor([-7.9342, -7.9247, -7.9007, ..., 12.0522, 12.0527, 12.0556],
            grad_fn=<Unique2Backward0>)
13260 masks_dr unique: tensor([-7.9342, -7.9247, -7.9007, ..., 12.0522, 12.0527, 12.0556],
13261
            grad_fn=<Unique2Backward0>)
13262 print_dice: 0.548769474029541, print_iou: 0.3781408369541168
13263 Epoch 32/499: 74% | 118/160 [18:46<06:42, 9.59s/it]masks_dr unique: tensor([-7.
     9047, -7.8942, -7.8805, ..., 12.8127, 12.8197, 12.8237],
13264
            grad_fn=<Unique2Backward0>)
13265 masks_dr unique: tensor([-7.9047, -7.8942, -7.8805, ..., 12.8127, 12.8197, 12.8237],
13266
            grad fn=<Unique2Backward0>)
13267 Epoch 32/499: 74% | 119/160 [18:55<06:31, 9.56s/it]print_dice: 0.
     4644937515258789, print_iou: 0.30250200629234314
13268 masks_dr unique: tensor([-7.9363, -7.9267, -7.9025, ..., 12.0552, 12.0554, 12.0584],
13269
            grad_fn=<Unique2Backward0>)
13270 masks_dr unique: tensor([-7.9363, -7.9267, -7.9025, ..., 12.0552, 12.0554, 12.0584],
13271
            grad_fn=<Unique2Backward0>)
13272 print_dice: 0.5615010261535645,
                                     print_iou: 0.39033815264701843
13273 Epoch 32/499: 75%
                          | 120/160 [19:05<06:21, 9.55s/it]masks_dr unique: tensor([-7.
     9371, -7.9274, -7.9033, ..., 12.0590, 12.0594, 12.0623],
13274
            grad_fn=<Unique2Backward0>)
13275 masks_dr unique: tensor([-7.9371, -7.9274, -7.9033, ..., 12.0590, 12.0594, 12.0623],
13276
            grad_fn=<Unique2Backward0>)
13277 print dice: 0.5970478653907776,
                                     print iou: 0.4255653917789459
13278 Epoch 32/499: 76%
     1154, -8.1080, -8.1052, ..., 12.8309, 12.8368, 12.8429],
            grad_fn=<Unique2Backward0>)
13279
13280 masks_dr unique: tensor([-8.1154, -8.1080, -8.1052, ..., 12.8309, 12.8368, 12.8429],
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grad fn=<Unique2Backward0>)
13281
13282 Epoch 32/499: 76% | 122/160 [19:24<06:05, 9.61s/it]print_dice: 0.
     5577582716941833, print iou: 0.3867300748825073
13283 masks_dr unique: tensor([-7.7502, -7.7441, -7.7440, ..., 12.1642, 12.1712, 12.1752],
            grad_fn=<Unique2Backward0>)
13285 masks_dr unique: tensor([-7.7502, -7.7441, -7.7440, ..., 12.1642, 12.1712, 12.1752],
            grad fn=<Unique2Backward0>)
13286
13287 Epoch 32/499: 77% | 123/160 [19:33<05:54, 9.57s/it]print_dice: 0.
     5077207684516907, print_iou: 0.3402317762374878
13288 masks_dr unique: tensor([-7.4753, -7.4648, -7.4583, ..., 12.1928, 12.1993, 12.2054],
13289
            grad_fn=<Unique2Backward0>)
13290 masks_dr unique: tensor([-7.4753, -7.4648, -7.4583, ..., 12.1928, 12.1993, 12.2054],
            grad fn=<Unique2Backward0>)
13291
13292 Epoch 32/499: 78\%
     5589479207992554, print_iou: 0.38787490129470825
13293 masks_dr unique: tensor([-7.9270, -7.9257, -7.9117, ..., 12.9894, 12.9905, 12.9913],
            grad_fn=<Unique2Backward0>)
13294
13295 masks_dr unique: tensor([-7.9270, -7.9257, -7.9117, ..., 12.9894, 12.9905, 12.9913],
            grad_fn=<Unique2Backward0>)
13296
13297 Epoch 32/499: 78%| | 125/160 [19:53<05:36, 9.61s/it]print_dice: 0.
     49731218814849854, print_iou: 0.33094844222068787
13298 masks_dr unique: tensor([-7.9390, -7.9293, -7.9052, ..., 12.0567, 12.0571, 12.0600],
            grad fn=<Unique2Backward0>)
13299
13300 masks_dr unique: tensor([-7.9390, -7.9293, -7.9052, ..., 12.0567, 12.0571, 12.0600],
            grad fn=<Unique2Backward0>)
13302 print_dice: 0.576133668422699, print_iou: 0.4046262204647064
13303 Epoch 32/499: 79% | 126/160 [20:02<05:25, 9.58s/it]masks dr unique: tensor([-8.
     2612, -8.2588, -8.2400, ..., 12.5922, 12.5949, 12.5982],
            grad fn=<Unique2Backward0>)
13304
13305 masks_dr unique: tensor([-8.2612, -8.2588, -8.2400, ..., 12.5922, 12.5949, 12.5982],
            grad_fn=<Unique2Backward0>)
13307 Epoch 32/499: 79%| | 127/160 [20:12<05:17, 9.61s/it]print_dice: 0.
     5472542643547058, print_iou: 0.3767034411430359
13308 masks dr unique: tensor([-7.9773, -7.9635, -7.9497, ..., 12.5764, 12.5801, 12.5803],
13309
            grad_fn=<Unique2Backward0>)
13310 masks_dr unique: tensor([-7.9773, -7.9635, -7.9497, ..., 12.5764, 12.5801, 12.5803],
            grad_fn=<Unique2Backward0>)
13311
13312 Epoch 32/499: 80% | 128/160 [20:21<05:06, 9.57s/it]print_dice: 0.
     4275762438774109, print_iou: 0.2719217836856842
13313 masks_dr unique: tensor([-7.9402, -7.9304, -7.9063, ..., 12.0561, 12.0564, 12.0593],
            grad fn=<Unique2Backward0>)
13314
13315 masks_dr unique: tensor([-7.9402, -7.9304, -7.9063, ..., 12.0561, 12.0564, 12.0593],
            grad_fn=<Unique2Backward0>)
13316
13317 Epoch 32/499: 81% | 129/160 [20:31<04:57, 9.58s/it]print_dice: 0.
     546461820602417, print_iou: 0.3759528398513794
13318 masks_dr unique: tensor([-7.7318, -7.7303, -7.7226, ..., 13.4309, 13.4311, 13.4322],
            grad_fn=<Unique2Backward0>)
13319
13320 masks_dr unique: tensor([-7.7318, -7.7303, -7.7226, ..., 13.4309, 13.4311, 13.4322],
            grad_fn=<Unique2Backward0>)
13321
13322 Epoch 32/499: 81% | 130/160 [20:40<04:46, 9.54s/it]print_dice: 0.
     5573526620864868, print_iou: 0.3863401710987091
13323 masks_dr unique: tensor([-7.9408, -7.9310, -7.9069, ..., 12.0579, 12.0583, 12.0612],
13324
            grad_fn=<Unique2Backward0>)
13325 masks dr unique: tensor([-7.9408, -7.9310, -7.9069, ..., 12.0579, 12.0583, 12.0612],
            grad_fn=<Unique2Backward0>)
13327 Epoch 32/499: 82%
                               | | 131/160 [20:50<04:37, 9.58s/it]print_dice: 0.
     5321447849273682, print_iou: 0.36253219842910767
13328 masks_dr unique: tensor([-7.6763, -7.6737, -7.6676, ..., 12.2656, 12.2717, 12.2747],
            grad_fn=<Unique2Backward0>)
13330 masks_dr unique: tensor([-7.6763, -7.6737, -7.6676, ..., 12.2656, 12.2717, 12.2747],
13331
            grad_fn=<Unique2Backward0>)
13332 Epoch 32/499: 82% | 132/160 [20:59<04:26, 9.51s/it]print dice: 0.
     42037373781204224, print_iou: 0.2661222815513611
13333 masks_dr unique: tensor([-8.2786, -8.2641, -8.2528, ..., 12.5866, 12.5949, 12.5988],
            grad fn=<Unique2Backward0>)
13334
13335 masks dr unique: tensor([-8.2786, -8.2641, -8.2528, ..., 12.5866, 12.5949, 12.5988],
            grad fn=<Unique2Backward0>)
13336
13337 Epoch 32/499: 83% | 133/160 [21:09<04:17, 9.54s/it]print_dice: 0.
     4734027683734894,
                        print iou: 0.31010323762893677
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13338 masks dr unique: tensor([-7.9419, -7.9321, -7.9080, ..., 12.0575, 12.0580, 12.0608],
            grad fn=<Unique2Backward0>)
13340 masks dr unique: tensor([-7.9419, -7.9321, -7.9080, ..., 12.0575, 12.0580, 12.0608],
            grad fn=<Unique2Backward0>)
13341
13342 Epoch 32/499: 84% | 134/160 [21:19<04:08, 9.55s/it]print_dice: 0.
     5023097395896912, print_iou: 0.3353896141052246
13343 masks_dr unique: tensor([-7.9107, -7.9047, -7.8875, ..., 13.2824, 13.2833, 13.2865],
            grad_fn=<Unique2Backward0>)
13345 masks_dr unique: tensor([-7.9107, -7.9047, -7.8875, ..., 13.2824, 13.2833, 13.2865],
13346
            grad fn=<Unique2Backward0>)
13347 print_dice: 0.5384644269943237, print_iou: 0.36842378973960876
13348 Epoch 32/499: 84% | 135/160 [21:28<03:58, 9.56s/it]masks_dr unique: tensor([-8.
     0373, -8.0292, -8.0108, ..., 13.0101, 13.0115, 13.0120],
            grad fn=<Unique2Backward0>)
13349
13350 masks_dr unique: tensor([-8.0373, -8.0292, -8.0108, ..., 13.0101, 13.0115, 13.0120],
            grad_fn=<Unique2Backward0>)
13351
13352 Epoch 32/499: 85% | 136/160 [21:38<03:48, 9.52s/it]print_dice: 0.
     5882402062416077, print_iou: 0.41667160391807556
13353 masks_dr unique: tensor([-7.9447, -7.9347, -7.9107, ..., 12.0622, 12.0623, 12.0653],
            grad fn=<Unique2Backward0>)
13355 masks_dr unique: tensor([-7.9447, -7.9347, -7.9107, ..., 12.0622, 12.0623, 12.0653],
            grad_fn=<Unique2Backward0>)
13357 print dice: 0.5631622076034546, print iou: 0.3919455409049988
13358 Epoch 32/499: 86%| | 137/160 [21:47<03:38, 9.51s/it]masks_dr unique: tensor([-7.
     8033, -7.8000, -7.7835, ..., 12.3206, 12.3257, 12.3320],
            grad_fn=<Unique2Backward0>)
13359
13360 masks_dr unique: tensor([-7.8033, -7.8000, -7.7835, ..., 12.3206, 12.3257, 12.3320],
            grad_fn=<Unique2Backward0>)
13361
13362 Epoch 32/499: 86% | 138/160 [21:57<03:29, 9.52s/it]print dice: 0.
     5117552876472473, print_iou: 0.3438650369644165
13363 masks dr unique: tensor([-7.9452, -7.9351, -7.9113, ..., 12.0604, 12.0609, 12.0637],
13364
            grad_fn=<Unique2Backward0>)
13365 masks_dr unique: tensor([-7.9452, -7.9351, -7.9113, ..., 12.0604, 12.0609, 12.0637],
13366
            grad_fn=<Unique2Backward0>)
13367 Epoch 32/499: 87%| | 139/160 [22:06<03:21, 9.59s/it]print_dice: 0.
     6061196327209473, print_iou: 0.43484336137771606
13368 masks_dr unique: tensor([-7.6138, -7.6085, -7.6033, ..., 13.2128, 13.2130, 13.2141],
            grad_fn=<Unique2Backward0>)
13370 masks_dr unique: tensor([-7.6138, -7.6085, -7.6033, ..., 13.2128, 13.2130, 13.2141],
            grad fn=<Unique2Backward0>)
13371
13372 print_dice: 0.5116230845451355, print_iou: 0.3437456488609314
13373 Epoch 32/499: 88% 88% 140/160 [22:16<03:11, 9.57s/it]masks_dr unique: tensor([-7.
     9445, -7.9343, -7.9105, ..., 12.0627, 12.0628, 12.0658],
            grad_fn=<Unique2Backward0>)
13375 masks_dr unique: tensor([-7.9445, -7.9343, -7.9105, ..., 12.0627, 12.0628, 12.0658],
13376
            grad_fn=<Unique2Backward0>)
13377 print_dice: 0.5819064974784851, print_iou: 0.4103442430496216
13378 Epoch 32/499: 88% | 141/160 [22:25<03:00, 9.50s/it]masks_dr unique: tensor([-7.
     7282, -7.7247, -7.7198, ..., 13.4647, 13.4650, 13.4667],
13379
            grad_fn=<Unique2Backward0>)
13380 masks_dr unique: tensor([-7.7282, -7.7247, -7.7198, ..., 13.4647, 13.4650, 13.4667],
13381
            grad_fn=<Unique2Backward0>)
13382 Epoch 32/499: 89% | 142/160 [22:35<02:50, 9.49s/it]print dice: 0.
     5588207840919495, print iou: 0.3877524435520172
13383 masks_dr unique: tensor([-7.9468, -7.9364, -7.9128, ..., 12.0618, 12.0619, 12.0649],
            grad_fn=<Unique2Backward0>)
13384
13385 masks dr unique: tensor([-7.9468, -7.9364, -7.9128, ..., 12.0618, 12.0619, 12.0649],
13386
            grad_fn=<Unique2Backward0>)
13387 print dice: 0.6196017861366272.
                                      print iou: 0.44885724782943726
13388 Epoch 32/499: 89% | 143/160 [22:44<02:41, 9.48s/it]masks_dr unique: tensor([-7.
     9440, -7.9336, -7.9101, ..., 12.0661, 12.0662, 12.0692],
13389
            grad_fn=<Unique2Backward0>)
13390 masks_dr unique: tensor([-7.9440, -7.9336, -7.9101, ..., 12.0661, 12.0662, 12.0692],
            grad_fn=<Unique2Backward0>)
13392 Epoch 32/499: 90%
                                | 144/160 [22:54<02:31, 9.47s/it]print dice: 0.
                        print_iou: 0.34669023752212524
     5148774981498718,
13393 masks_dr unique: tensor([-7.9453, -7.9348, -7.9114, ..., 12.0604, 12.0607, 12.0636],
13394
            grad_fn=<Unique2Backward0>)
13395 masks_dr unique: tensor([-7.9453, -7.9348, -7.9114, ..., 12.0604, 12.0607, 12.0636],
```

```
grad fn=<Unique2Backward0>)
13396
13397 print dice: 0.5277045965194702, print iou: 0.35842305421829224
13398 Epoch 32/499: 91%| 145/160 [23:03<02:22, 9.49s/it]masks_dr unique: tensor([-8.
     1070, -8.0962, -8.0760, ..., 13.6224, 13.6252, 13.6253],
            grad_fn=<Unique2Backward0>)
13400 masks_dr unique: tensor([-8.1070, -8.0962, -8.0760, ..., 13.6224, 13.6252, 13.6253],
            grad fn=<Unique2Backward0>)
13401
13402 Epoch 32/499: 91%| 146/160 [23:13<02:12, 9.46s/it]print_dice: 0.
     477305144071579, print_iou: 0.3134607970714569
13403 masks_dr unique: tensor([-7.9664, -7.9616, -7.9581, ..., 13.1399, 13.1415, 13.1417],
            grad_fn=<Unique2Backward0>)
13405 masks_dr unique: tensor([-7.9664, -7.9616, -7.9581, ..., 13.1399, 13.1415, 13.1417],
            grad_fn=<Unique2Backward0>)
13406
13407 Epoch 32/499: 92%
                               | | 147/160 [23:22<02:03, 9.50s/it]print dice: 0.
     4876501262187958, print_iou: 0.3224453032016754
13408 masks_dr unique: tensor([-7.4307, -7.4293, -7.4178, ..., 12.2422, 12.2425, 12.2425],
            grad_fn=<Unique2Backward0>)
13409
13410 masks_dr unique: tensor([-7.4307, -7.4293, -7.4178, ..., 12.2422, 12.2425, 12.2425],
13411
            grad_fn=<Unique2Backward0>)
13412 print_dice: 0.5197010040283203, print_iou: 0.35107842087745667
13413 Epoch 32/499: 92% | 148/160 [23:32<01:54, 9.52s/it]masks_dr unique: tensor([-8.
     0569, -8.0543, -8.0495, ..., 12.6646, 12.6697, 12.6735],
13414
            grad fn=<Unique2Backward0>)
13415 masks_dr unique: tensor([-8.0569, -8.0543, -8.0495, ..., 12.6646, 12.6697, 12.6735],
            grad fn=<Unique2Backward0>)
13417 Epoch 32/499: 93%| | 149/160 [23:41<01:45, 9.55s/it]print_dice: 0.
     4751949906349182, print iou: 0.311643123626709
13418 masks_dr unique: tensor([-7.9454, -7.9346, -7.9114, ..., 12.0632, 12.0636, 12.0665],
            grad_fn=<Unique2Backward0>)
13420 masks_dr unique: tensor([-7.9454, -7.9346, -7.9114, ..., 12.0632, 12.0636, 12.0665],
            grad_fn=<Unique2Backward0>)
13422 Epoch 32/499: 94%| | 150/160 [23:51<01:35, 9.55s/it]print_dice: 0.
     5793972015380859, print_iou: 0.4078530967235565
13423 masks_dr unique: tensor([-7.6598, -7.6471, -7.6443, ..., 12.3167, 12.3229, 12.3275],
13424
            grad_fn=<Unique2Backward0>)
13425 masks_dr unique: tensor([-7.6598, -7.6471, -7.6443, ..., 12.3167, 12.3229, 12.3275],
            grad_fn=<Unique2Backward0>)
13426
4630938768386841, print_iou: 0.30131566524505615
13428 masks_dr unique: tensor([-7.4663, -7.4631, -7.4599, ..., 13.1106, 13.1115, 13.1118],
            grad fn=<Unique2Backward0>)
13429
13430 masks_dr unique: tensor([-7.4663, -7.4631, -7.4599, ..., 13.1106, 13.1115, 13.1118],
            grad_fn=<Unique2Backward0>)
13431
13432 Epoch 32/499: 95% | 152/160 [24:10<01:15, 9.49s/it]print_dice: 0.
     49373477697372437, print_iou: 0.3277873992919922
13433 masks_dr unique: tensor([-7.9449, -7.9341, -7.9109, ..., 12.0617, 12.0621, 12.0648],
            grad_fn=<Unique2Backward0>)
13435 masks_dr unique: tensor([-7.9449, -7.9341, -7.9109, ..., 12.0617, 12.0621, 12.0648],
13436
            grad_fn=<Unique2Backward0>)
13437 print_dice: 0.598802924156189, print_iou: 0.4273509383201599
13438 Epoch 32/499: 96%| | 153/160 [24:19<01:06, 9.57s/it]masks_dr unique: tensor([-7.
     9444, -7.9336, -7.9104, ..., 12.0683, 12.0687, 12.0715],
13439
            grad fn=<Unique2Backward0>)
13440 masks_dr unique: tensor([-7.9444, -7.9336, -7.9104, ..., 12.0683, 12.0687, 12.0715],
            grad_fn=<Unique2Backward0>)
13442 Epoch 32/499: 96%
                               154/160 [24:29<00:57, 9.53s/it]print_dice: 0.
     5492557883262634, print_iou: 0.3786027729511261
13443 masks_dr unique: tensor([-8.2336, -8.2190, -8.2093, ..., 13.3697, 13.3721, 13.3759],
            grad_fn=<Unique2Backward0>)
13445 masks_dr unique: tensor([-8.2336, -8.2190, -8.2093, ..., 13.3697, 13.3721, 13.3759],
            grad_fn=<Unique2Backward0>)
13446
13447 print_dice: 0.5681105256080627, print_iou: 0.3967558443546295
13448 Epoch 32/499: 97% | 155/160 [24:38<00:47, 9.50s/it]masks_dr unique: tensor([-7.
     6339, -7.6237, -7.6126, ..., 12.2886, 12.2966, 12.3001],
13449
            grad fn=<Unique2Backward0>)
13450 masks_dr unique: tensor([-7.6339, -7.6237, -7.6126, ..., 12.2886, 12.2966, 12.3001],
13451
            grad fn=<Unique2Backward0>)
13452 Epoch 32/499: 98%
                            156/160 [24:48<00:37, 9.49s/it]print_dice: 0.
     5647316575050354,
                        print iou: 0.39346766471862793
```

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13453 masks dr unique: tensor([-7.9440, -7.9331, -7.9099, ..., 12.0634, 12.0637, 12.0665],
            grad_fn=<Unique2Backward0>)
13454
13455 masks dr unique: tensor([-7.9440, -7.9331, -7.9099, ..., 12.0634, 12.0637, 12.0665],
13456
            grad fn=<Unique2Backward0>)
13457 print_dice: 0.48989489674568176, print_iou: 0.3244111239910126
13458 Epoch 32/499: 98%| 157/160 [24:57<00:28, 9.54s/it]masks_dr unique: tensor([-7.
     8794, -7.8760, -7.8645, ..., 13.4285, 13.4289, 13.4300],
13459
            grad_fn=<Unique2Backward0>)
13460 masks_dr unique: tensor([-7.8794, -7.8760, -7.8645, ..., 13.4285, 13.4289, 13.4300],
13461
            grad fn=<Unique2Backward0>)
13462 Epoch 32/499: 99% 100 158/160 [25:07<00:19, 9.53s/it]print dice: 0.
     5358473658561707, print_iou: 0.36597779393196106
13463 masks_dr unique: tensor([-7.4359, -7.4284, -7.4227, ..., 12.0408, 12.0442, 12.0501],
            grad fn=<Unique2Backward0>)
13464
13465 masks_dr unique: tensor([-7.4359, -7.4284, -7.4227, ..., 12.0408, 12.0442, 12.0501],
13466
            grad_fn=<Unique2Backward0>)
13467 print_dice: 0.5337153077125549, print_iou: 0.3639916181564331
13468 Epoch 32/499: 99% | 159/160 [25:16<00:09, 9.48s/it]masks_dr unique: tensor([-7.
     9453, -7.9344, -7.9111, ..., 12.0728, 12.0729, 12.0759],
            grad fn=<Unique2Backward0>)
13469
13470 masks_dr unique: tensor([-7.9453, -7.9344, -7.9111, ..., 12.0728, 12.0729, 12.0759],
            grad_fn=<Unique2Backward0>)
13472 Epoch 32/499: 100% | 100% | 160/160 [25:26<00:00, 9.47s/it]print_dice: 0.
     5675032734870911, print_iou: 0.3961637318134308
      [159/160] eta: 0:00:09
                                 time: 9.4931 data: 0.0003
13473
13474 Total time: 0:25:27 (9.5438 s / it)
13475 Averaged stats: training_loss: -645.2294 (-645.2294) loss_mask: -645.1402 (-645.1402)
     loss_dice: -0.0892 (-0.0892)
13476 Epoch 32/499: 100%| | 100 | 160/160 [25:27<00:00, 9.54s/it]
13477 Net parameter norm: 1054.4267744717654
13478 Validating...
13479 Valid_dataloader len: 12
13480
                    | 0/12 [00:00<?, ?it/s]masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique
      sigmoid values: tensor([2.5482e-04, 2.9576e-04, 3.1236e-04, ..., 9.9999e-01, 9.9999e-01,
13481
             9.9999e-01], grad_fn=<Unique2Backward0>)
13482 masks_dr unique: tensor([4.8181e-04, 4.8561e-04, 4.8877e-04, ..., 9.9999e-01, 9.9999e-01,
13483
             9.9999e-01], grad_fn=<Unique2Backward0>)
                    | 1/12 [00:10<01:56, 10.60s/it]print_dice: 0.5613842606544495, print_iou: 0
13484
       8%|
     .3902253210544586
13486 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.1520e-04, 2
      .4052e-04, 2.5480e-04, ..., 1.0000e+00, 1.0000e+00,
13487
             1.0000e+00], grad_fn=<Unique2Backward0>)
13488 masks_dr unique: tensor([4.6178e-04, 4.6556e-04, 4.6560e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
13489
13490 print_dice: 0.6101542115211487, print_iou: 0.43900859355926514
                    2/12 [00:16<01:18, 7.87s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
13491 17%
     ]) unique sigmoid values: tensor([2.8132e-04, 3.5164e-04, 3.5383e-04, ..., 1.0000e+00, 1.
     0000e+00,
13492
             1.0000e+00], grad_fn=<Unique2Backward0>)
13493 masks_dr unique: tensor([5.2090e-04, 5.2335e-04, 5.2485e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
13495 print_dice: 0.5290248394012451, print_iou: 0.35964223742485046
                    | 3/12 [00:22<01:01, 6.88s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
     ]) unique sigmoid values: tensor([2.7782e-04, 2.7866e-04, 2.9100e-04, ..., 9.9999e-01, 9.
     9999e-01,
             9.9999e-01], grad fn=<Unique2Backward0>)
13497
13498 masks_dr unique: tensor([2.9114e-04, 2.9980e-04, 3.0846e-04, ..., 9.9999e-01, 9.9999e-01,
             9.9999e-01], grad_fn=<Unique2Backward0>)
13500 33%
                    4/12 [00:28<00:52, 6.52s/it]print_dice: 0.519831657409668, print_iou: 0.
     3511976897716522
13501 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.2920e-04, 2
      .4801e-04, 2.7219e-04, ..., 1.0000e+00, 1.0000e+00,
13502
             1.0000e+00], grad_fn=<Unique2Backward0>)
13503 masks_dr unique: tensor([4.6690e-04, 4.7525e-04, 4.7914e-04, ..., 1.0000e+00, 1.0000e+00,
             1.0000e+00], grad_fn=<Unique2Backward0>)
13504
                    | 5/12 [00:33<00:43, 6.22s/it]print_dice: 0.5804222226142883, print_iou: 0
13505 42%
      .4088696241378784
13506 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.7781e-04, 2
```

```
13506 .7888e-04, 2.9181e-04, ..., 9.9999e-01, 9.9999e-01,
13507
                   9.9999e-01], grad_fn=<Unique2Backward0>)
13508 masks dr unique: tensor([3.9236e-04, 3.9733e-04, 4.1068e-04, ..., 9.9999e-01, 9.9999e-01,
13509
                   9.9999e-01], grad fn=<Unique2Backward0>)
13510 print_dice: 0.5088058114051819, print_iou: 0.34120693802833557
                      | 6/12 [00:39<00:36, 6.06s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
        ]) unique sigmoid values: tensor([2.4987e-04, 2.6375e-04, 2.8681e-04, ..., 1.0000e+00, 1.
        0000e+00,
                   1.0000e+00], grad_fn=<Unique2Backward0>)
13512
13513 masks dr unique: tensor([3.8090e-04, 3.8407e-04, 3.9245e-04, ..., 1.0000e+00, 1.0000e+00,
                   1.0000e+00], grad_fn=<Unique2Backward0>)
13514
                              7/12 [00:45<00:30, 6.08s/it]print dice: 0.4388043284416199, print iou: 0
13515 58%
         .28106939792633057
13516 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([1.6688e-04, 1
        .7324e-04, 1.8403e-04, ..., 1.0000e+00, 1.0000e+00,
                   1.0000e+00], grad fn=<Unique2Backward0>)
13517
13518 masks_dr unique: tensor([3.2351e-04, 3.2369e-04, 3.2490e-04, ..., 1.0000e+00, 1.0000e+00,
                   1.0000e+00], grad_fn=<Unique2Backward0>)
13520 print_dice: 0.5504540205001831, print_iou: 0.3797423541545868
]) unique sigmoid values: tensor([2.1370e-04, 2.1463e-04, 2.3594e-04, ..., 1.0000e+00, 1.
        0000e+00,
13522
                   1.0000e+00], grad_fn=<Unique2Backward0>)
13523 masks_dr unique: tensor([4.2415e-04, 4.2861e-04, 4.3167e-04, ..., 1.0000e+00, 1.0000e+00,
                   1.0000e+00], grad fn=<Unique2Backward0>)
                             9/12 [00:57<00:18, 6.10s/it]print dice: 0.5659921765327454, print iou: 0
13525 75%
         .3946925103664398
13526 masks dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([3.0306e-04, 3
        .2237e-04, 3.4610e-04, ..., 9.9999e-01, 9.9999e-01,
                   9.9999e-01], grad_fn=<Unique2Backward0>)
13527
13528 masks dr unique: tensor([6.5480e-04, 6.5774e-04, 6.6067e-04, ..., 9.9999e-01, 9.9999e-01,
                   9.9999e-01], grad_fn=<Unique2Backward0>)
13529
13530 83% | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000
        0.4055693447589874
13531 masks_dr shape: torch.Size([1, 1, 32, 32, 32]) unique sigmoid values: tensor([2.8203e-04, 3
         .0230e-04, 3.2751e-04, ..., 1.0000e+00, 1.0000e+00,
                   1.0000e+00], grad_fn=<Unique2Backward0>)
13532
13533 masks_dr unique: tensor([4.6617e-04, 4.6629e-04, 4.6807e-04, ..., 1.0000e+00, 1.0000e+00,
                   1.0000e+00], grad_fn=<Unique2Backward0>)
13534
13535 print dice: 0.616050660610199, print iou: 0.4451395869255066
                    | 11/12 [01:09<00:05, 5.87s/it]masks_dr shape: torch.Size([1, 1, 32, 32, 32
13536 92%
        ]) unique sigmoid values: tensor([2.7765e-04, 2.7853e-04, 2.9080e-04, ..., 9.9999e-01, 9.
        9999e-01,
                   9.9999e-01], grad_fn=<Unique2Backward0>)
13538 masks_dr unique: tensor([3.9261e-04, 3.9761e-04, 4.1098e-04, ..., 9.9999e-01, 9.9999e-01,
                   9.9999e-01], grad_fn=<Unique2Backward0>)
13540 print_dice: 0.5818048119544983, print_iou: 0.41024312376976013
                                              time: 6.2401 data: 0.4077
13541
           [11/12] eta: 0:00:06
13542 100% | 12/12 [01:15<00:00, 6.27s/it]
13543 Total time: 0:01:15 (6.2725 s / it)
13544 ============
13545 Averaged stats:
13546 Epoch 33/499: 0%|
                                                 | 0/160 [00:00<?, ?it/s]epoch: 33 learning rate:
                                                                                                                                1e-07
13547 masks_dr unique: tensor([-7.9437, -7.9328, -7.9095, ..., 12.0667, 12.0671, 12.0699],
                  grad_fn=<Unique2Backward0>)
13549 masks_dr unique: tensor([-7.9437, -7.9328, -7.9095, ..., 12.0667, 12.0671, 12.0699],
13550
                  grad_fn=<Unique2Backward0>)
13551 Epoch 33/499:
                               1%|
                                                 | 1/160 [00:13<36:37, 13.82s/it]print_dice: 0.
        47915351390838623,
                                      print iou: 0.3150571286678314
           [ 0/160] eta: 0:36:51
                                                 time: 13.8219 data: 4.2389
13552
13553 masks_dr unique: tensor([-7.9458, -7.9349, -7.9115, ..., 12.0690, 12.0695, 12.0723],
13554
                  grad_fn=<Unique2Backward0>)
13555 masks_dr unique: tensor([-7.9458, -7.9349, -7.9115, ..., 12.0690, 12.0695, 12.0723],
                  grad_fn=<Unique2Backward0>)
13556
13557 print_dice: 0.602622389793396,
                                                       print_iou: 0.4312523603439331
13558 Epoch 33/499:
                               1%||
                                                  2/160 [00:23<29:55, 11.36s/it]masks_dr unique: tensor([-7.
        6075, -7.5977, -7.5935, ..., 12.4264, 12.4275, 12.4295],
                  grad fn=<Unique2Backward0>)
13559
13560 masks_dr unique: tensor([-7.6075, -7.5977, -7.5935, ..., 12.4264, 12.4275, 12.4295],
```

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13561
            grad fn=<Unique2Backward0>)
13562 Epoch 33/499:
                    2%||
                                 3/160 [00:32<27:29, 10.51s/it]print_dice: 0.4862787425518036
         print iou: 0.3212472200393677
13563 masks_dr unique: tensor([-7.9643, -7.9549, -7.9512, ..., 13.4461, 13.4462, 13.4480],
            grad_fn=<Unique2Backward0>)
13565 masks_dr unique: tensor([-7.9643, -7.9549, -7.9512, ..., 13.4461, 13.4462, 13.4480],
13566
            grad fn=<Unique2Backward0>)
                    2%
                                 4/160 [00:42<26:33, 10.21s/it]print_dice: 0.541614830493927
13567 Epoch 33/499:
         print_iou: 0.3713798224925995
13568 masks_dr unique: tensor([-7.5468, -7.5421, -7.5345, ..., 12.4457, 12.4511, 12.4552],
            grad_fn=<Unique2Backward0>)
13570 masks dr unique: tensor([-7.5468, -7.5421, -7.5345, ..., 12.4457, 12.4511, 12.4552],
13571
            grad_fn=<Unique2Backward0>)
13572 Epoch 33/499:
                    3%|
                                 | 5/160 [00:52<25:36, 9.91s/it]print dice: 0.
                         print iou: 0.275978684425354
     43257570266723633,
13573 masks_dr unique: tensor([-7.9465, -7.9355, -7.9120, ..., 12.0701, 12.0701, 12.0731],
            grad_fn=<Unique2Backward0>)
13574
13575 masks_dr unique: tensor([-7.9465, -7.9355, -7.9120, ..., 12.0701, 12.0701, 12.0731],
13576
            grad_fn=<Unique2Backward0>)
13577 print_dice: 0.4938342571258545, print_iou: 0.3278751075267792
13578 Epoch 33/499:
                    4%
                           | 6/160 [01:01<24:58, 9.73s/it]masks_dr unique: tensor([-7.
     8791, -7.8775, -7.8639, ..., 13.4995, 13.5007, 13.5018],
13579
            grad fn=<Unique2Backward0>)
13580 masks_dr unique: tensor([-7.8791, -7.8775, -7.8639, ..., 13.4995, 13.5007, 13.5018],
            grad fn=<Unique2Backward0>)
                    4%|
                                 7/160 [01:11<24:48, 9.73s/it]print_dice: 0.
13582 Epoch 33/499:
     44804689288139343, print iou: 0.2886987328529358
13583 masks_dr unique: tensor([-8.0405, -8.0313, -8.0106, ..., 13.0191, 13.0207, 13.0212],
            grad_fn=<Unique2Backward0>)
13584
13585 masks_dr unique: tensor([-8.0405, -8.0313, -8.0106, ..., 13.0191, 13.0207, 13.0212],
            grad_fn=<Unique2Backward0>)
                                 | 8/160 [01:20<24:31, 9.68s/it]print_dice: 0.5907092690467834
13587 Epoch 33/499:
                    5%|
         print_iou: 0.4191536009311676
13588 masks_dr unique: tensor([-7.6042, -7.5892, -7.5742, ..., 12.3396, 12.3456, 12.3499],
            grad_fn=<Unique2Backward0>)
13590 masks_dr unique: tensor([-7.6042, -7.5892, -7.5742, ..., 12.3396, 12.3456, 12.3499],
            grad_fn=<Unique2Backward0>)
13591
13592 print_dice: 0.5112164616584778, print_iou: 0.3433786630630493
                           | 9/160 [01:30<24:06, 9.58s/it]masks_dr unique: tensor([-7.
13593 Epoch 33/499: 6%
     8454, -7.8359, -7.8351, ..., 12.0626, 12.0680, 12.0716],
13594
            grad_fn=<Unique2Backward0>)
13595 masks_dr unique: tensor([-7.8454, -7.8359, -7.8351, ..., 12.0626, 12.0680, 12.0716],
            grad_fn=<Unique2Backward0>)
13596
13597 print_dice: 0.5011392831802368, print iou: 0.33434680104255676
5017, -7.4951, -7.4831, ..., 12.1135, 12.1176, 12.1223],
            grad_fn=<Unique2Backward0>)
13599
13600 masks_dr unique: tensor([-7.5017, -7.4951, -7.4831, ..., 12.1135, 12.1176, 12.1223],
13601
            grad_fn=<Unique2Backward0>)
13602 print_dice: 0.4718475341796875, print_iou: 0.30876994132995605
4369, -7.4305, -7.4213, ..., 12.1037, 12.1094, 12.1145],
13604
            grad_fn=<Unique2Backward0>)
13605 masks_dr unique: tensor([-7.4369, -7.4305, -7.4213, ..., 12.1037, 12.1094, 12.1145],
            grad_fn=<Unique2Backward0>)
13607 Epoch 33/499: 8% ■
                                 | 12/160 [01:58<23:39, 9.59s/it]print_dice: 0.
     5635190606117249, print_iou: 0.392291396856308
13608 masks_dr unique: tensor([-7.7636, -7.7524, -7.7471, ..., 12.5627, 12.5684, 12.5745],
            grad_fn=<Unique2Backward0>)
13610 masks_dr unique: tensor([-7.7636, -7.7524, -7.7471,
                                                       \dots, 12.5627, 12.5684, 12.5745],
            grad_fn=<Unique2Backward0>)
13611
13612 Epoch 33/499:
                    8%|
                                 | 13/160 [02:08<23:28,
                                                       9.58s/it]print_dice: 0.
     5526155829429626,
                        print_iou: 0.38180291652679443
13613 masks dr unique: tensor([-7.9519, -7.9412, -7.9174,
                                                       ..., 12.0764, 12.0765, 12.0795],
            grad_fn=<Unique2Backward0>)
13614
13615 masks_dr unique: tensor([-7.9519, -7.9412, -7.9174, ..., 12.0764, 12.0765, 12.0795],
            grad fn=<Unique2Backward0>)
13616
                                 | 14/160 [02:17<23:04,
13617 Epoch 33/499:
                    9%
                                                       9.49s/it]print dice: 0.
     5894385576248169,
                        print iou: 0.41787511110305786
```

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13618 masks dr unique: tensor([-7.9512, -7.9405, -7.9167, ..., 12.0728, 12.0733, 12.0761],
            grad_fn=<Unique2Backward0>)
13620 masks dr unique: tensor([-7.9512, -7.9405, -7.9167, ..., 12.0728, 12.0733, 12.0761],
            grad fn=<Unique2Backward0>)
13621
                    9%
13622 Epoch 33/499:
                                 | 15/160 [02:27<23:00, 9.52s/it]print_dice: 0.
     5439881086349487, print_iou: 0.3736151456832886
13623 masks_dr unique: tensor([-7.9514, -7.9408, -7.9170, ..., 12.0748, 12.0750, 12.0779],
            grad_fn=<Unique2Backward0>)
13625 masks_dr unique: tensor([-7.9514, -7.9408, -7.9170, ..., 12.0748, 12.0750, 12.0779],
            grad fn=<Unique2Backward0>)
13626
13627 Epoch 33/499: 10%
                                 | 16/160 [02:37<22:57, 9.57s/it]print_dice: 0.
     5406973958015442, print iou: 0.37051764130592346
13628 masks_dr unique: tensor([-7.9456, -7.9345, -7.9252, ..., 13.4245, 13.4259, 13.4265],
            grad fn=<Unique2Backward0>)
13629
13630 masks_dr unique: tensor([-7.9456, -7.9345, -7.9252, ..., 13.4245, 13.4259, 13.4265],
            grad_fn=<Unique2Backward0>)
13631
13632 Epoch 33/499: 11%
                             | 17/160 [02:46<22:52, 9.60s/it]print dice: 0.
     5008041858673096, print_iou: 0.3340485394001007
13633 masks_dr unique: tensor([-7.9512, -7.9407, -7.9168, ..., 12.0744, 12.0748, 12.0776],
            grad fn=<Unique2Backward0>)
13635 masks_dr unique: tensor([-7.9512, -7.9407, -7.9168, ..., 12.0744, 12.0748, 12.0776],
            grad_fn=<Unique2Backward0>)
13637 print dice: 0.5412540435791016,
                                    print_iou: 0.3710406422615051
0739, -8.0632, -8.0500, ..., 13.5427, 13.5454, 13.5455],
            grad_fn=<Unique2Backward0>)
13639
13640 masks_dr unique: tensor([-8.0739, -8.0632, -8.0500, ..., 13.5427, 13.5454, 13.5455],
            grad_fn=<Unique2Backward0>)
13641
13642 Epoch 33/499: 12%
                           | 19/160 [03:05<22:26, 9.55s/it]print_dice: 0.
     5376293063163757, print_iou: 0.36764225363731384
13643 masks_dr unique: tensor([-7.9511, -7.9406, -7.9166, ..., 12.0798, 12.0799, 12.0828],
            grad fn=<Unique2Backward0>)
13644
13645 masks_dr unique: tensor([-7.9511, -7.9406, -7.9166, ..., 12.0798, 12.0799, 12.0828],
13646
            grad fn=<Unique2Backward0>)
13647 Epoch 33/499: 12%
                                 20/160 [03:15<22:20, 9.58s/it]print_dice: 0.582758367061615
         print_iou: 0.4111919701099396
13648 masks_dr unique: tensor([-7.7330, -7.7278, -7.7215, ..., 12.1228, 12.1249, 12.1255],
            grad_fn=<Unique2Backward0>)
13650 masks_dr unique: tensor([-7.7330, -7.7278, -7.7215, ..., 12.1228, 12.1249, 12.1255],
            grad fn=<Unique2Backward0>)
13651
13652 print_dice: 0.4726269543170929, print_iou: 0.3094377815723419
13653 Epoch 33/499: 13% ■
                           | 21/160 [03:25<22:17, 9.62s/it]masks_dr unique: tensor([-7.
     7710, -7.7663, -7.7503, ..., 12.0982, 12.1023, 12.1052],
            grad_fn=<Unique2Backward0>)
13655 masks_dr unique: tensor([-7.7710, -7.7663, -7.7503, ..., 12.0982, 12.1023, 12.1052],
13656
            grad_fn=<Unique2Backward0>)
13657 print_dice: 0.5048836469650269, print_iou: 0.33768853545188904
13658 Epoch 33/499: 14% ■ | 22/160 [03:34<22:01, 9.58s/it]masks_dr unique: tensor([-7.
     4650, -7.4590, -7.4490, ..., 11.8547, 11.8566, 11.8633],
13659
            grad_fn=<Unique2Backward0>)
13660 masks_dr unique: tensor([-7.4650, -7.4590, -7.4490, ..., 11.8547, 11.8566, 11.8633],
13661
            grad_fn=<Unique2Backward0>)
13662 print_dice: 0.5308346748352051,
                                    print_iou: 0.3613171875476837
13663 Epoch 33/499: 14% 23/160 [03:43<21:43, 9.52s/it]masks_dr unique: tensor([-7.
     9189, -7.9150, -7.9015, ..., 12.2463, 12.2500, 12.2551],
            grad_fn=<Unique2Backward0>)
13664
13665 masks_dr unique: tensor([-7.9189, -7.9150, -7.9015, ..., 12.2463, 12.2500, 12.2551],
            grad_fn=<Unique2Backward0>)
13666
13667 Epoch 33/499: 15%
                                                        9.57s/it]print dice: 0.
                                 24/160 [03:53<21:41,
                        print_iou: 0.35460737347602844
     5235574245452881,
13668 masks_dr unique: tensor([-8.1456, -8.1435, -8.1283,
                                                        \dots, 13.5242, 13.5262, 13.5275],
            grad_fn=<Unique2Backward0>)
13669
13670 masks_dr unique: tensor([-8.1456, -8.1435, -8.1283, ..., 13.5242, 13.5262, 13.5275],
13671
            grad fn=<Unique2Backward0>)
13672 Epoch 33/499: 16%
                                 25/160 [04:03<21:30,
                                                        9.56s/it]print dice: 0.
     4988490343093872,
                        print iou: 0.3323110342025757
13673 masks_dr unique: tensor([-7.8342, -7.8287, -7.8279, ..., 13.3903, 13.3910, 13.3921],
13674
            grad fn=<Unique2Backward0>)
13675 masks_dr unique: tensor([-7.8342, -7.8287, -7.8279, ..., 13.3903, 13.3910, 13.3921],
```

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13676
            grad fn=<Unique2Backward0>)
13677 print_dice: 0.5340757369995117,
                                     print iou: 0.36432695388793945
                            | 26/160 [04:12<21:16, 9.53s/it]masks_dr unique: tensor([-7.
13678 Epoch 33/499: 16%
      9500, -7.9397, -7.9153, ..., 12.0774, 12.0781, 12.0808],
            grad fn=<Unique2Backward0>)
13680 masks_dr unique: tensor([-7.9500, -7.9397, -7.9153, ..., 12.0774, 12.0781, 12.0808],
            grad fn=<Unique2Backward0>)
13681
13682 Epoch 33/499: 17%
                                  27/160 [04:22<21:07, 9.53s/it]print_dice: 0.
      5405958294868469, print_iou: 0.37042227387428284
13683 masks_dr unique: tensor([-7.7474, -7.7404, -7.7333, ..., 13.1830, 13.1838, 13.1852],
            grad fn=<Unique2Backward0>)
13684
13685 masks_dr unique: tensor([-7.7474, -7.7404, -7.7333, ..., 13.1830, 13.1838, 13.1852],
            grad_fn=<Unique2Backward0>)
13686
13687 print dice: 0.6416719555854797, print iou: 0.47239840030670166
13688 Epoch 33/499: 18%| | 28/160 [04:31<20:55, 9.51s/it]masks_dr unique: tensor([-7.
      9506, -7.9405, -7.9157, ..., 12.0778, 12.0786, 12.0813],
13689
            grad_fn=<Unique2Backward0>)
13690 masks_dr unique: tensor([-7.9506, -7.9405, -7.9157, ..., 12.0778, 12.0786, 12.0813],
            grad_fn=<Unique2Backward0>)
13692 print dice: 0.5612919926643372,
                                     print_iou: 0.390136182308197
13693 Epoch 33/499: 18% ■ | 29/160 [04:41<20:49, 9.54s/it]masks_dr unique: tensor([-7.
      7383, -7.7303, -7.7089, ..., 12.4008, 12.4011, 12.4015],
13694
            grad fn=<Unique2Backward0>)
13695 masks_dr unique: tensor([-7.7383, -7.7303, -7.7089, ..., 12.4008, 12.4011, 12.4015],
            grad_fn=<Unique2Backward0>)
13697 Epoch 33/499: 19%
                                 | 30/160 [04:50<20:37, 9.52s/it]print_dice: 0.
      5163543224334717, print iou: 0.3480307459831238
13698 masks_dr unique: tensor([-7.8359, -7.8245, -7.8187, ..., 12.6544, 12.6567, 12.6581],
            grad fn=<Unique2Backward0>)
13699
13700 masks dr unique: tensor([-7.8359, -7.8245, -7.8187, ..., 12.6544, 12.6567, 12.6581],
            grad_fn=<Unique2Backward0>)
13702 Epoch 33/499: 19%
                              | 31/160 [05:00<20:29, 9.53s/it]print_dice: 0.
      5654398798942566, print_iou: 0.3941555917263031
13703 masks_dr unique: tensor([-7.5912, -7.5806, -7.5782, ..., 12.1921, 12.1962, 12.2009],
            grad fn=<Unique2Backward0>)
13704
13705 masks_dr unique: tensor([-7.5912, -7.5806, -7.5782, ..., 12.1921, 12.1962, 12.2009],
            grad fn=<Unique2Backward0>)
13706
13707 Epoch 33/499: 20%
                                  32/160 [05:09<20:17, 9.51s/it]print_dice: 0.
      4397277534008026, print_iou: 0.2818275988101959
13708 masks_dr unique: tensor([-7.9760, -7.9679, -7.9616, ..., 12.4296, 12.4357, 12.4406],
            grad fn=<Unique2Backward0>)
13709
13710 masks_dr unique: tensor([-7.9760, -7.9679, -7.9616, ..., 12.4296, 12.4357, 12.4406],
13711
            grad_fn=<Unique2Backward0>)
13712 Epoch 33/499: 21%
                                  | 33/160 [05:19<20:09, 9.52s/it]print_dice: 0.
      5274458527565002, print_iou: 0.3581843674182892
13713 masks_dr unique: tensor([-7.9344, -7.9343, -7.9096, ..., 12.0309, 12.0364, 12.0403],
13714
            grad_fn=<Unique2Backward0>)
13715 masks_dr unique: tensor([-7.9344, -7.9343, -7.9096, ..., 12.0309, 12.0364, 12.0403],
13716
            grad_fn=<Unique2Backward0>)
                                 | 34/160 [05:28<19:58, 9.51s/it]print_dice: 0.
13717 Epoch 33/499: 21%
      5629997849464417, print_iou: 0.3917882740497589
13718 masks_dr unique: tensor([-7.8175, -7.8066, -7.7980, ..., 13.1621, 13.1636, 13.1638],
13719
            grad fn=<Unique2Backward0>)
13720 masks dr unique: tensor([-7.8175, -7.8066, -7.7980, ..., 13.1621, 13.1636, 13.1638],
            grad_fn=<Unique2Backward0>)
13722 Epoch 33/499: 22%
                                  | 35/160 [05:38<19:49, 9.51s/it]print_dice: 0.
      5103465914726257, print_iou: 0.342594176530838
13723 masks_dr unique: tensor([-7.8634, -7.8632, -7.8625, ..., 12.4161, 12.4224, 12.4267],
            grad_fn=<Unique2Backward0>)
13725 masks_dr unique: tensor([-7.8634, -7.8632, -7.8625, ..., 12.4161, 12.4224, 12.4267],
            grad_fn=<Unique2Backward0>)
13726
13727 Epoch 33/499: 22%
                                  36/160 [05:47<19:43,
                                                         9.54s/it]print_dice: 0.
      5159740447998047, print_iou: 0.347685307264328
13728 masks_dr unique: tensor([-7.9467, -7.9368, -7.9120, ..., 12.0795, 12.0803, 12.0830],
            grad_fn=<Unique2Backward0>)
13729
13730 masks_dr unique: tensor([-7.9467, -7.9368, -7.9120, ..., 12.0795, 12.0803, 12.0830],
            grad fn=<Unique2Backward0>)
13731
13732 Epoch 33/499: 23%
                                  37/160 [05:57<19:25, 9.47s/it]print dice: 0.
      5871933698654175,
                         print iou: 0.41562187671661377
```

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13733 masks dr unique: tensor([-7.8738, -7.8731, -7.8450, ..., 12.1153, 12.1190, 12.1229],
            grad fn=<Unique2Backward0>)
13734
13735 masks dr unique: tensor([-7.8738, -7.8731, -7.8450, ..., 12.1153, 12.1190, 12.1229],
            grad fn=<Unique2Backward0>)
13736
13737 Epoch 33/499: 24%
                                  | 38/160 [06:06<19:18, 9.50s/it]print dice: 0.
      5385780334472656, print_iou: 0.36853015422821045
13738 masks dr unique: tensor([-8.2793, -8.2654, -8.2494, ..., 13.6341, 13.6358, 13.6382],
13739
            grad_fn=<Unique2Backward0>)
13740 masks_dr unique: tensor([-8.2793, -8.2654, -8.2494, ..., 13.6341, 13.6358, 13.6382],
            grad fn=<Unique2Backward0>)
13741
13742 Epoch 33/499: 24%
                                  39/160 [06:16<19:07, 9.48s/it]print_dice: 0.617866575717926
         print iou: 0.44703832268714905
13743 masks_dr unique: tensor([-7.9056, -7.8943, -7.8836, ..., 12.7435, 12.7482, 12.7524],
            grad fn=<Unique2Backward0>)
13745 masks_dr unique: tensor([-7.9056, -7.8943, -7.8836, ..., 12.7435, 12.7482, 12.7524],
13746
            grad_fn=<Unique2Backward0>)
                              | 40/160 [06:25<19:00, 9.51s/it]print_dice: 0.
13747 Epoch 33/499: 25%
     4799162745475769, print_iou: 0.31571701169013977
13748 masks_dr unique: tensor([-7.8873, -7.8701, -7.8591, ..., 12.2478, 12.2540, 12.2577],
            grad fn=<Unique2Backward0>)
13750 masks_dr unique: tensor([-7.8873, -7.8701, -7.8591, ..., 12.2478, 12.2540, 12.2577],
            grad_fn=<Unique2Backward0>)
13752 print dice: 0.5292508602142334,
                                     print iou: 0.359851211309433
13753 Epoch 33/499: 26% 41/160 [06:35<18:52, 9.52s/it] masks_dr unique: tensor([-8.
     2143, -8.2035, -8.1947, ..., 13.2827, 13.2847, 13.2854],
            grad fn=<Unique2Backward0>)
13754
13755 masks_dr unique: tensor([-8.2143, -8.2035, -8.1947, ..., 13.2827, 13.2847, 13.2854],
            grad_fn=<Unique2Backward0>)
13756
13757 Epoch 33/499: 26%
                                  42/160 [06:44<18:48, 9.57s/it]print_dice: 0.550251841545105
         print iou: 0.37954995036125183
13758 masks_dr unique: tensor([-7.9429, -7.9331, -7.9084, ..., 12.0792, 12.0799, 12.0826],
            grad fn=<Unique2Backward0>)
13759
13760 masks_dr unique: tensor([-7.9429, -7.9331, -7.9084, ..., 12.0792, 12.0799, 12.0826],
13761
            grad fn=<Unique2Backward0>)
13762 Epoch 33/499: 27%
                                 | 43/160 [06:54<18:36, 9.54s/it]print_dice: 0.
      5324068069458008, print_iou: 0.3627754747867584
13763 masks_dr unique: tensor([-7.9431, -7.9333, -7.9086, ..., 12.0807, 12.0808, 12.0838],
13764
            grad_fn=<Unique2Backward0>)
13765 masks_dr unique: tensor([-7.9431, -7.9333, -7.9086, ..., 12.0807, 12.0808, 12.0838],
            grad fn=<Unique2Backward0>)
13766
13767 Epoch 33/499: 28%
                                  | 44/160 [07:04<18:30, 9.57s/it]print_dice: 0.
      5446945428848267, print_iou: 0.3742819130420685
13768 masks_dr unique: tensor([-7.9361, -7.9242, -7.9117, ..., 12.3254, 12.3298, 12.3332],
            grad_fn=<Unique2Backward0>)
13770 masks_dr unique: tensor([-7.9361, -7.9242, -7.9117, ..., 12.3254, 12.3298, 12.3332],
            grad_fn=<Unique2Backward0>)
13771
13772 Epoch 33/499: 28%
                                 45/160 [07:13<18:16, 9.54s/it]print_dice: 0.
      4687393009662628, print_iou: 0.3061133325099945
13773 masks_dr unique: tensor([-7.7612, -7.7557, -7.7449, ..., 12.1694, 12.1719, 12.1783],
            grad fn=<Unique2Backward0>)
13774
13775 masks dr unique: tensor([-7.7612, -7.7557, -7.7449, ..., 12.1694, 12.1719, 12.1783]
            grad fn=<Unique2Backward0>)
13776
13777 Epoch 33/499: 29%
                                 46/160 [07:22<18:01, 9.48s/it]print_dice: 0.
      5322546362876892, print_iou: 0.36263418197631836
13778 masks_dr unique: tensor([-7.1713, -7.1709, -7.1658, ..., 11.8329, 11.8360, 11.8388],
            grad_fn=<Unique2Backward0>)
13779
13780 masks_dr unique: tensor([-7.1713, -7.1709, -7.1658, ..., 11.8329, 11.8360, 11.8388],
            grad_fn=<Unique2Backward0>)
13781
13782 Epoch 33/499: 29%
                                  47/160 [07:32<17:55, 9.52s/it]print_dice: 0.
                         print_iou: 0.4099743068218231
      5815344452857971,
13783 masks_dr unique: tensor([-7.9441, -7.9344, -7.9097, ..., 12.0839, 12.0845, 12.0873],
            grad_fn=<Unique2Backward0>)
13784
13785 masks_dr unique: tensor([-7.9441, -7.9344, -7.9097, ..., 12.0839, 12.0845, 12.0873],
13786
            grad fn=<Unique2Backward0>)
13787 Epoch 33/499: 30%
                                  48/160 [07:42<17:50,
                                                         9.56s/it]print_dice: 0.
      6036093831062317, print_iou: 0.4322640299797058
13788 masks dr unique: tensor([-7.9391, -7.9295, -7.9049,
                                                         ..., 12.0801, 12.0808, 12.0836],
            grad_fn=<Unique2Backward0>)
13789
13790 masks_dr unique: tensor([-7.9391, -7.9295, -7.9049, ..., 12.0801, 12.0808, 12.0836],
```

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grad fn=<Unique2Backward0>)
13792 print dice: 0.4411975145339966,
                                     print_iou: 0.28303617238998413
13793 Epoch 33/499: 31% 49/160 [07:51<17:34, 9.50s/it]masks dr unique: tensor([-7.
     9202, -7.9078, -7.8990, ..., 11.9364, 11.9365, 11.9381],
            grad fn=<Unique2Backward0>)
13795 masks_dr unique: tensor([-7.9202, -7.9078, -7.8990, ..., 11.9364, 11.9365, 11.9381],
13796
            grad fn=<Unique2Backward0>)
13797 print_dice: 0.5380769968032837, print_iou: 0.3680611252784729
13798 Epoch 33/499: 31% 50/160 [08:01<17:25, 9.50s/it] masks_dr unique: tensor([-7.
     6048, -7.6024, -7.5888, ..., 13.4954, 13.4964, 13.4966],
13799
            grad_fn=<Unique2Backward0>)
13800 masks_dr unique: tensor([-7.6048, -7.6024, -7.5888, ..., 13.4954, 13.4964, 13.4966],
            grad fn=<Unique2Backward0>)
13801
13802 print dice: 0.4812496602535248, print iou: 0.31687211990356445
                             | 51/160 [08:10<17:20, 9.55s/it]masks_dr unique: tensor([-7.
13803 Epoch 33/499: 32%
     5824, -7.5720, -7.5690, ..., 12.5170, 12.5212, 12.5273],
13804
            grad_fn=<Unique2Backward0>)
13805 masks_dr unique: tensor([-7.5824, -7.5720, -7.5690, ..., 12.5170, 12.5212, 12.5273],
            grad_fn=<Unique2Backward0>)
13807 print_dice: 0.5279101729393005, print_iou: 0.3586127758026123
13808 Epoch 33/499: 32% 52/160 [08:20<17:10, 9.55s/it]masks_dr unique: tensor([-7.
     7931, -7.7880, -7.7704, ..., 13.5329, 13.5333, 13.5336],
13809
            grad fn=<Unique2Backward0>)
13810 masks_dr unique: tensor([-7.7931, -7.7880, -7.7704, ..., 13.5329, 13.5333, 13.5336],
            grad_fn=<Unique2Backward0>)
13812 Epoch 33/499: 33%
                                53/160 [08:29<17:04, 9.57s/it]print_dice: 0.553535521030426
         print iou: 0.3826817274093628
13813 masks_dr unique: tensor([-7.9047, -7.9034, -7.8815, ..., 11.6436, 11.6464, 11.6498],
            grad fn=<Unique2Backward0>)
13815 masks_dr unique: tensor([-7.9047, -7.9034, -7.8815, ..., 11.6436, 11.6464, 11.6498],
            grad_fn=<Unique2Backward0>)
13817 Epoch 33/499: 34%
                             | 54/160 [08:39<16:52, 9.55s/it]print dice: 0.
     5327174067497253, print_iou: 0.3630639612674713
13818 masks_dr unique: tensor([-7.9408, -7.9313, -7.9069, ..., 12.0830, 12.0837, 12.0865],
13819
            grad_fn=<Unique2Backward0>)
13820 masks_dr unique: tensor([-7.9408, -7.9313, -7.9069, ..., 12.0830, 12.0837, 12.0865],
            grad_fn=<Unique2Backward0>)
13821
13822 Epoch 33/499: 34%
                                  | 55/160 [08:48<16:43, 9.56s/it]print_dice: 0.
     48820236325263977, print_iou: 0.32292836904525757
13823 masks_dr unique: tensor([-7.9790, -7.9733, -7.9726, ..., 13.1923, 13.1948, 13.1948],
            grad fn=<Unique2Backward0>)
13824
13825 masks_dr unique: tensor([-7.9790, -7.9733, -7.9726, ..., 13.1923, 13.1948, 13.1948],
13826
            grad_fn=<Unique2Backward0>)
13827 Epoch 33/499: 35%
                                 | 56/160 [08:58<16:38, 9.60s/it]print_dice: 0.
     4762476682662964, print_iou: 0.31254926323890686
13828 masks_dr unique: tensor([-7.6435, -7.6322, -7.6253, ..., 12.0137, 12.0162, 12.0216],
13829
            grad_fn=<Unique2Backward0>)
13830 masks_dr unique: tensor([-7.6435, -7.6322, -7.6253, ..., 12.0137, 12.0162, 12.0216],
            grad fn=<Unique2Backward0>)
13831
13832 print_dice: 0.5341722965240479, print_iou: 0.36441683769226074
13833 Epoch 33/499: 36% 57/160 [09:08<16:26, 9.58s/it] masks_dr unique: tensor([-7.
     9404, -7.9309, -7.9067, ..., 12.0842, 12.0845, 12.0874],
13834
            grad_fn=<Unique2Backward0>)
13835 masks_dr unique: tensor([-7.9404, -7.9309, -7.9067, ..., 12.0842, 12.0845, 12.0874],
            grad_fn=<Unique2Backward0>)
13837 Epoch 33/499: 36%
                                | 58/160 [09:17<16:13, 9.55s/it]print_dice: 0.
     46053004264831543, print_iou: 0.29914847016334534
13838 masks_dr unique: tensor([-7.5002, -7.4846, -7.4801, ..., 11.8728, 11.8792, 11.8828],
            grad_fn=<Unique2Backward0>)
13840 masks_dr unique: tensor([-7.5002, -7.4846, -7.4801, ..., 11.8728, 11.8792, 11.8828],
            grad_fn=<Unique2Backward0>)
13841
13842 print_dice: 0.5577396750450134,
                                      print_iou: 0.3867121934890747
13843 Epoch 33/499: 37%
                                  | 59/160 [09:27<16:09, 9.60s/it]masks_dr unique: tensor([-7.
     9413, -7.9319, -7.9077, ..., 12.0864, 12.0873, 12.0900],
            grad_fn=<Unique2Backward0>)
13844
13845 masks dr unique: tensor([-7.9413, -7.9319, -7.9077, \ldots, 12.0864, 12.0873, 12.0900]
13846
            grad fn=<Unique2Backward0>)
13847 Epoch 33/499: 38%
                                  60/160 [09:36<15:56, 9.57s/it]print_dice: 0.547929048538208
         print iou: 0.37734317779541016
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13848 masks_dr unique: tensor([-7.7917, -7.7813, -7.7705, ..., 12.3473, 12.3512, 12.3547],
            grad fn=<Unique2Backward0>)
13850 masks dr unique: tensor([-7.7917, -7.7813, -7.7705, ..., 12.3473, 12.3512, 12.3547],
            grad fn=<Unique2Backward0>)
13851
13852 print_dice: 0.49647510051727295, print_iou: 0.3302074372768402
13853 Epoch 33/499: 38% 61/160 [09:46<15:48, 9.58s/it] masks_dr unique: tensor([-8.
     0856, -8.0731, -8.0633, ..., 12.7905, 12.7968, 12.8011],
            grad_fn=<Unique2Backward0>)
13854
13855 masks_dr unique: tensor([-8.0856, -8.0731, -8.0633, ..., 12.7905, 12.7968, 12.8011],
13856
            grad fn=<Unique2Backward0>)
13857 print dice: 0.5068349242210388, print iou: 0.3394366204738617
13858 Epoch 33/499: 39% 62/160 [09:55<15:28, 9.48s/it] masks_dr unique: tensor([-7.
     8911, -7.8907, -7.8788, ..., 12.9950, 12.9979, 12.9995],
            grad fn=<Unique2Backward0>)
13859
13860 masks_dr unique: tensor([-7.8911, -7.8907, -7.8788, ..., 12.9950, 12.9979, 12.9995],
            grad fn=<Unique2Backward0>)
13861
13862 Epoch 33/499: 39%
                             63/160 [10:05<15:20, 9.49s/it]print dice: 0.
     4162605106830597, print_iou: 0.26283395290374756
13863 masks_dr unique: tensor([-7.5814, -7.5661, -7.5517, ..., 12.6540, 12.6571, 12.6619],
            grad fn=<Unique2Backward0>)
13865 masks_dr unique: tensor([-7.5814, -7.5661, -7.5517, ..., 12.6540, 12.6571, 12.6619],
            grad_fn=<Unique2Backward0>)
13866
13867 Epoch 33/499: 40%
                                | 64/160 [10:14<15:14, 9.53s/it]print_dice: 0.558725893497467
         print iou: 0.3876610994338989
13868 masks_dr unique: tensor([-8.2874, -8.2722, -8.2696, ..., 13.4938, 13.4968, 13.4973],
            grad fn=<Unique2Backward0>)
13869
13870 masks_dr unique: tensor([-8.2874, -8.2722, -8.2696, ..., 13.4938, 13.4968, 13.4973],
13871
            grad fn=<Unique2Backward0>)
13872 print_dice: 0.558403491973877, print_iou: 0.38735076785087585
8386, -7.8321, -7.8257, ..., 13.2926, 13.2929, 13.2944],
            grad fn=<Unique2Backward0>)
13874
13875 masks_dr unique: tensor([-7.8386, -7.8321, -7.8257, ..., 13.2926, 13.2929, 13.2944],
13876
            grad_fn=<Unique2Backward0>)
13877 print_dice: 0.5014772415161133, print_iou: 0.3346477150917053
13878 Epoch 33/499: 41%
     5943, -7.5835, -7.5817, ..., 12.2602, 12.2663, 12.2705],
13879
            grad_fn=<Unique2Backward0>)
13880 masks_dr unique: tensor([-7.5943, -7.5835, -7.5817, ..., 12.2602, 12.2663, 12.2705],
            grad fn=<Unique2Backward0>)
13881
13882 Epoch 33/499: 42%
                                67/160 [10:43<14:39, 9.46s/it]print_dice: 0.
     6098836660385132, print_iou: 0.4387284815311432
13883 masks_dr unique: tensor([-7.5180, -7.5090, -7.5089, ..., 12.7833, 12.7833, 12.7834],
            grad_fn=<Unique2Backward0>)
13885 masks_dr unique: tensor([-7.5180, -7.5090, -7.5089, ..., 12.7833, 12.7833, 12.7834],
13886
            grad_fn=<Unique2Backward0>)
13887 Epoch 33/499: 42%
                                68/160 [10:52<14:35, 9.52s/it]print_dice: 0.522021472454071
         print_iou: 0.3531996011734009
13888 masks_dr unique: tensor([-8.0014, -8.0009, -7.9981, ..., 13.5582, 13.5597, 13.5608],
            grad fn=<Unique2Backward0>)
13890 masks_dr unique: tensor([-8.0014, -8.0009, -7.9981, ..., 13.5582, 13.5597, 13.5608],
            grad fn=<Unique2Backward0>)
13891
                                | 69/160 [11:02<14:30, 9.56s/it]print dice: 0.
13892 Epoch 33/499: 43%
     5641882419586182, print iou: 0.3929402828216553
13893 masks_dr unique: tensor([-7.9458, -7.9366, -7.9126, ..., 12.0870, 12.0877, 12.0905],
            grad_fn=<Unique2Backward0>)
13894
13895 masks_dr unique: tensor([-7.9458, -7.9366, -7.9126, ..., 12.0870, 12.0877, 12.0905],
13896
            grad_fn=<Unique2Backward0>)
13897 Epoch 33/499: 44%
                                70/160 [11:11<14:18,
                                                       9.54s/it]print_dice: 0.
                        print_iou: 0.3573983609676361
     5265932083129883,
                                                       ..., 13.4873, 13.4900, 13.4907],
13898 masks_dr unique: tensor([-8.3034, -8.2878, -8.2852,
            grad fn=<Unique2Backward0>)
13899
13900 masks_dr unique: tensor([-8.3034, -8.2878, -8.2852, ..., 13.4873, 13.4900, 13.4907],
13901
            grad_fn=<Unique2Backward0>)
13902 Epoch 33/499: 44%
                                71/160 [11:21<14:08,
                                                       9.53s/it]print dice: 0.
                      print iou: 0.35871511697769165
     5280210971832275,
13903 masks_dr unique: tensor([-7.7266, -7.7226, -7.7087, ..., 12.3034, 12.3083, 12.3136],
13904
            grad_fn=<Unique2Backward0>)
13905 masks_dr unique: tensor([-7.7266, -7.7226, -7.7087, ..., 12.3034, 12.3083, 12.3136],
```

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grad fn=<Unique2Backward0>)
13906
                                | 72/160 [11:31<14:02, 9.57s/it]print_dice: 0.
13907 Epoch 33/499: 45%
     5103974342346191, print_iou: 0.3426400125026703
13908 masks_dr unique: tensor([-8.0281, -8.0152, -8.0056, ..., 12.2816, 12.2860, 12.2898],
            grad_fn=<Unique2Backward0>)
13910 masks_dr unique: tensor([-8.0281, -8.0152, -8.0056, ..., 12.2816, 12.2860, 12.2898],
            grad fn=<Unique2Backward0>)
13911
13912 Epoch 33/499: 46%
                                 | 73/160 [11:40<13:52, 9.57s/it]print_dice: 0.
     5995267629623413, print_iou: 0.4280886948108673
13913 masks dr unique: tensor([-7.4792, -7.4746, -7.4706, ..., 11.9485, 11.9518, 11.9556],
            grad fn=<Unique2Backward0>)
13915 masks_dr unique: tensor([-7.4792, -7.4746, -7.4706, ..., 11.9485, 11.9518, 11.9556],
            grad_fn=<Unique2Backward0>)
13916
13917 print dice: 0.5640471577644348, print iou: 0.3928034007549286
13918 Epoch 33/499: 46% 74/160 [11:50<13:40, 9.54s/it] masks_dr unique: tensor([-7.
     9497, -7.9406, -7.9168, ..., 12.0855, 12.0862, 12.0890],
13919
            grad_fn=<Unique2Backward0>)
13920 masks_dr unique: tensor([-7.9497, -7.9406, -7.9168, ..., 12.0855, 12.0862, 12.0890],
            grad_fn=<Unique2Backward0>)
13922 print_dice: 0.6106671094894409, print_iou: 0.4395398199558258
13923 Epoch 33/499: 47% → 1 75/160 [12:00<13:45, 9.71s/it] masks_dr unique: tensor([-7.
     9510, -7.9419, -7.9180, ..., 12.0908, 12.0913, 12.0942],
13924
            grad fn=<Unique2Backward0>)
13925 masks_dr unique: tensor([-7.9510, -7.9419, -7.9180, ..., 12.0908, 12.0913, 12.0942],
            grad_fn=<Unique2Backward0>)
13927 Epoch 33/499: 48%
                                 | 76/160 [12:10<13:37, 9.73s/it]print_dice: 0.
     5874748229980469, print iou: 0.4159039556980133
13928 masks_dr unique: tensor([-8.0459, -8.0374, -8.0155, ..., 13.7026, 13.7032, 13.7072],
            grad_fn=<Unique2Backward0>)
13929
13930 masks dr unique: tensor([-8.0459, -8.0374, -8.0155, ..., 13.7026, 13.7032, 13.7072],
            grad_fn=<Unique2Backward0>)
5946141481399536, print_iou: 0.4230967164039612
13933 masks_dr unique: tensor([-8.1126, -8.1008, -8.0977, ..., 12.6769, 12.6813, 12.6868],
13934
            grad_fn=<Unique2Backward0>)
13935 masks_dr unique: tensor([-8.1126, -8.1008, -8.0977, ..., 12.6769, 12.6813, 12.6868],
            grad_fn=<Unique2Backward0>)
13936
13937 Epoch 33/499: 49%
                                | 78/160 [12:29<13:15, 9.70s/it]print_dice: 0.
     4463356137275696, print_iou: 0.28727930784225464
13938 masks dr unique: tensor([-8.5007, -8.4926, -8.4875, ..., 13.8212, 13.8256, 13.8257],
            grad fn=<Unique2Backward0>)
13939
13940 masks_dr unique: tensor([-8.5007, -8.4926, -8.4875, ..., 13.8212, 13.8256, 13.8257],
13941
            grad_fn=<Unique2Backward0>)
13942 Epoch 33/499: 49%
                                | 79/160 [12:38<13:01, 9.65s/it]print_dice: 0.
     4647105038166046, print_iou: 0.3026859164237976
13943 masks_dr unique: tensor([-7.9504, -7.9414, -7.9176, ..., 12.0835, 12.0841, 12.0869],
            grad_fn=<Unique2Backward0>)
13945 masks_dr unique: tensor([-7.9504, -7.9414, -7.9176, ..., 12.0835, 12.0841, 12.0869],
            grad_fn=<Unique2Backward0>)
13946
13947 Epoch 33/499: 50%
                                80/160 [12:48<12:52,
                                                        9.66s/it]print_dice: 0.
     45477452874183655, print_iou: 0.29430949687957764
13948 masks_dr unique: tensor([-7.5428, -7.5313, -7.5154, ..., 13.1238, 13.1250, 13.1257],
            grad_fn=<Unique2Backward0>)
13950 masks_dr unique: tensor([-7.5428, -7.5313, -7.5154, ..., 13.1238, 13.1250, 13.1257],
            grad_fn=<Unique2Backward0>)
13952 Epoch 33/499: 51%
                                 | 81/160 [12:58<12:39, 9.61s/it]print_dice: 0.
     4902341067790985, print_iou: 0.3247087001800537
13953 masks_dr unique: tensor([-7.6598, -7.6571, -7.6445, ..., 12.2107, 12.2112, 12.2146],
            grad fn=<Unique2Backward0>)
13955 masks_dr unique: tensor([-7.6598, -7.6571, -7.6445, ..., 12.2107, 12.2112, 12.2146],
            grad fn=<Unique2Backward0>)
13956
13957 print dice: 0.47660619020462036,
                                       print_iou: 0.3128581643104553
13958 Epoch 33/499: 51%
                                 82/160 [13:07<12:28, 9.59s/it]masks_dr unique: tensor([-8.
     0981, -8.0957, -8.0671, ..., 12.6318, 12.6379, 12.6440],
13959
            grad_fn=<Unique2Backward0>)
13960 masks dr unique: tensor([-8.0981, -8.0957, -8.0671, \ldots, 12.6318, 12.6379, 12.6440]
13961
            grad fn=<Unique2Backward0>)
13962 print dice: 0.5518714189529419,
                                     print_iou: 0.3810928463935852
                                 | 83/160 [13:16<12:12, 9.52s/it]masks_dr unique: tensor([-8.
13963 Epoch 33/499: 52%
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```
13963 0501, -8.0427, -8.0354, ..., 12.7449, 12.7465, 12.7513],
13964
            grad_fn=<Unique2Backward0>)
13965 masks dr unique: tensor([-8.0501, -8.0427, -8.0354, ..., 12.7449, 12.7465, 12.7513],
            grad fn=<Unique2Backward0>)
13966
13967 print dice: 0.4658412039279938, print iou: 0.3036460280418396
13968 Epoch 33/499: 52% 84/160 [13:26<12:07, 9.58s/it] masks_dr unique: tensor([-7.
     9535, -7.9444, -7.9207, ..., 12.0907, 12.0911, 12.0941],
13969
            grad_fn=<Unique2Backward0>)
13970 masks_dr unique: tensor([-7.9535, -7.9444, -7.9207, ..., 12.0907, 12.0911, 12.0941],
            grad fn=<Unique2Backward0>)
13971
13972 Epoch 33/499: 53%
                                 | 85/160 [13:36<12:00, 9.60s/it]print dice: 0.
     5534163117408752, print iou: 0.38256776332855225
13973 masks_dr unique: tensor([-7.6344, -7.6315, -7.6286, ..., 13.2371, 13.2374, 13.2383],
            grad fn=<Unique2Backward0>)
13974
13975 masks_dr unique: tensor([-7.6344, -7.6315, -7.6286, ..., 13.2371, 13.2374, 13.2383],
            grad fn=<Unique2Backward0>)
13976
13977 Epoch 33/499: 54%
                               86/160 [13:45<11:50, 9.60s/it]print dice: 0.
     5185513496398926, print_iou: 0.35002994537353516
13978 masks_dr unique: tensor([-8.0269, -8.0267, -8.0008, ..., 12.4358, 12.4410, 12.4452],
            grad fn=<Unique2Backward0>)
13980 masks_dr unique: tensor([-8.0269, -8.0267, -8.0008, ..., 12.4358, 12.4410, 12.4452],
            grad_fn=<Unique2Backward0>)
13981
13982 Epoch 33/499: 54%
                                 87/160 [13:55<11:35, 9.53s/it]print_dice: 0.
     5128955841064453, print_iou: 0.34489545226097107
13983 masks dr unique: tensor([-7.7279, -7.7255, -7.7211, ..., 13.5018, 13.5023, 13.5065]
            grad_fn=<Unique2Backward0>)
13984
13985 masks_dr unique: tensor([-7.7279, -7.7255, -7.7211, ..., 13.5018, 13.5023, 13.5065],
            grad_fn=<Unique2Backward0>)
13986
                                  88/160 [14:04<11:29, 9.58s/it]print dice: 0.61845862865448
13987 Epoch 33/499: 55%
         print iou: 0.4476584196090698
13988 masks_dr unique: tensor([-7.9536, -7.9447, -7.9210, ..., 12.0841, 12.0845, 12.0875],
            grad_fn=<Unique2Backward0>)
13989
13990 masks_dr unique: tensor([-7.9536, -7.9447, -7.9210, ..., 12.0841, 12.0845, 12.0875],
13991
            grad_fn=<Unique2Backward0>)
13992 Epoch 33/499: 56% 89/160 [14:14<11:26, 9.66s/it]print_dice: 0.
     47087493538856506, print_iou: 0.30793747305870056
13993 masks_dr unique: tensor([-7.9546, -7.9457, -7.9221, ..., 12.0839, 12.0843, 12.0872],
            grad_fn=<Unique2Backward0>)
13995 masks_dr unique: tensor([-7.9546, -7.9457, -7.9221, ..., 12.0839, 12.0843, 12.0872],
            grad fn=<Unique2Backward0>)
13996
13997 print_dice: 0.5413385033607483, print_iou: 0.37112000584602356
13998 Epoch 33/499: 56% 90/160 [14:24<11:15, 9.65s/it] masks_dr unique: tensor([-7.
     7856, -7.7772, -7.7704, ..., 12.2520, 12.2552, 12.2576],
            grad_fn=<Unique2Backward0>)
14000 masks_dr unique: tensor([-7.7856, -7.7772, -7.7704, ..., 12.2520, 12.2552, 12.2576],
            grad_fn=<Unique2Backward0>)
14002 print_dice: 0.478249192237854, print_iou: 0.3142756223678589
14003 Epoch 33/499: 57% | 91/160 [14:34<11:11, 9.74s/it] masks_dr unique: tensor([-7.
     9555, -7.9467, -7.9232, ..., 12.0846, 12.0849, 12.0879],
14004
            grad_fn=<Unique2Backward0>)
14005 masks dr unique: tensor([-7.9555, -7.9467, -7.9232, ..., 12.0846, 12.0849, 12.0879],
            grad fn=<Unique2Backward0>)
14006
14007 Epoch 33/499: 57% | 92/160 [14:44<11:02, 9.75s/it]print_dice: 0.
     5324633121490479, print_iou: 0.36282795667648315
14008 masks_dr unique: tensor([-7.6028, -7.5946, -7.5864, ..., 12.9552, 12.9553, 12.9568],
14009
            grad_fn=<Unique2Backward0>)
14010 masks_dr unique: tensor([-7.6028, -7.5946, -7.5864, ..., 12.9552, 12.9553, 12.9568],
14011
            grad_fn=<Unique2Backward0>)
14012 print_dice: 0.4823248088359833,
                                     print_iou: 0.3178050220012665
14013 Epoch 33/499: 58% 93/160 [14:53<10:48, 9.68s/it] masks_dr unique: tensor([-7.
     7061, -7.7014, -7.6890, \ldots, 12.4027, 12.4080, 12.4132
14014
            grad_fn=<Unique2Backward0>)
14015 masks_dr unique: tensor([-7.7061, -7.7014, -7.6890, ..., 12.4027, 12.4080, 12.4132],
14016
            grad_fn=<Unique2Backward0>)
14017 Epoch 33/499: 59%
                                94/160 [15:03<10:38,
                                                         9.67s/it]print_dice: 0.
                        print iou: 0.4116758108139038
     5832441449165344,
14018 masks_dr unique: tensor([-7.5660, -7.5601, -7.5541, ..., 13.2057, 13.2063, 13.2109],
14019
            grad_fn=<Unique2Backward0>)
14020 masks_dr unique: tensor([-7.5660, -7.5601, -7.5541, ..., 13.2057, 13.2063, 13.2109],
```

```
14021
            grad fn=<Unique2Backward0>)
                                     print_iou: 0.34770888090133667
14022 print dice: 0.515999972820282,
14023 Epoch 33/499: 59% 95/160 [15:12<10:26, 9.64s/it] masks dr unique: tensor([-7.
     9360, -7.9350, -7.9251, ..., 12.9607, 12.9613, 12.9617],
            grad fn=<Unique2Backward0>)
14025 masks_dr unique: tensor([-7.9360, -7.9350, -7.9251, ..., 12.9607, 12.9613, 12.9617],
            grad fn=<Unique2Backward0>)
14026
14027 Epoch 33/499: 60%
                                 96/160 [15:22<10:16, 9.64s/it]print_dice: 0.
     5028252601623535, print_iou: 0.335849404335022
14028 masks_dr unique: tensor([-7.6992, -7.6963, -7.6935, ..., 13.1923, 13.1931, 13.1936],
14029
            grad_fn=<Unique2Backward0>)
14030 masks_dr unique: tensor([-7.6992, -7.6963, -7.6935, ..., 13.1923, 13.1931, 13.1936],
            grad fn=<Unique2Backward0>)
14031
14032 print dice: 0.4841746687889099, print iou: 0.3194132447242737
14033 Epoch 33/499: 61% 97/160 [15:32<10:06, 9.63s/it] masks_dr unique: tensor([-8.
     0632, -8.0536, -8.0440, ..., 13.2244, 13.2256, 13.2260],
14034
            grad_fn=<Unique2Backward0>)
14035 masks_dr unique: tensor([-8.0632, -8.0536, -8.0440, ..., 13.2244, 13.2256, 13.2260],
            grad_fn=<Unique2Backward0>)
14037 print_dice: 0.46718719601631165, print_iou: 0.30479076504707336
14038 Epoch 33/499: 61% | | 98/160 [15:41<09:57, 9.64s/it] masks_dr unique: tensor([-7.
     8774, -7.8774, -7.8596, ..., 12.1040, 12.1084, 12.1135],
14039
            grad fn=<Unique2Backward0>)
14040 masks dr unique: tensor([-7.8774, -7.8774, -7.8596, ..., 12.1040, 12.1084, 12.1135],
            grad_fn=<Unique2Backward0>)
                                 99/160 [15:51<09:44, 9.59s/it]print dice: 0.508950412273407
14042 Epoch 33/499: 62%
         print iou: 0.3413369953632355
14043 masks_dr unique: tensor([-7.9975, -7.9905, -7.9871, ..., 12.1811, 12.1829, 12.1845],
            grad fn=<Unique2Backward0>)
14044
14045 masks_dr unique: tensor([-7.9975, -7.9905, -7.9871, ..., 12.1811, 12.1829, 12.1845],
            grad_fn=<Unique2Backward0>)
14047 Epoch 33/499: 62%| | 100/160 [16:00<09:35, 9.60s/it]print_dice: 0.
     5329647660255432, print iou: 0.36329376697540283
14048 masks dr unique: tensor([-7.9611, -7.9522, -7.9286, ..., 12.0824, 12.0827, 12.0856],
            grad fn=<Unique2Backward0>)
14049
14050 masks_dr unique: tensor([-7.9611, -7.9522, -7.9286, ..., 12.0824, 12.0827, 12.0856],
            grad fn=<Unique2Backward0>)
14051
14052 print_dice: 0.5135509967803955, print_iou: 0.34548845887184143
14053 Epoch 33/499: 63% | 101/160 [16:10<09:23, 9.56s/it] [100/160] eta: 0:09:36
         time: 9.6163 data: 0.0003
14054 masks_dr unique: tensor([-7.9602, -7.9513, -7.9277, ..., 12.0804, 12.0806, 12.0836],
            grad_fn=<Unique2Backward0>)
14055
14056 masks_dr unique: tensor([-7.9602, -7.9513, -7.9277, ..., 12.0804, 12.0806, 12.0836],
            grad_fn=<Unique2Backward0>)
14058 Epoch 33/499: 64% 102/160 [16:19<09:14, 9.57s/it]print_dice: 0.
     5228554606437683, print_iou: 0.35396361351013184
14059 masks_dr unique: tensor([-7.9622, -7.9533, -7.9298, ..., 12.0854, 12.0859, 12.0887],
            grad_fn=<Unique2Backward0>)
14060
14061 masks_dr unique: tensor([-7.9622, -7.9533, -7.9298, ..., 12.0854, 12.0859, 12.0887],
14062
            grad_fn=<Unique2Backward0>)
14063 Epoch 33/499: 64% 103/160 [16:29<09:05, 9.57s/it]print_dice: 0.
     5538549423217773, print_iou: 0.3829871118068695
14064 masks_dr unique: tensor([-7.9129, -7.9100, -7.8961, ..., 12.1746, 12.1800, 12.1840],
            grad_fn=<Unique2Backward0>)
14065
14066 masks_dr unique: tensor([-7.9129, -7.9100, -7.8961, ..., 12.1746, 12.1800, 12.1840],
            grad_fn=<Unique2Backward0>)
14067
                          | 104/160 [16:39<09:09, 9.82s/it]print_dice: 0.57709139585495
14068 Epoch 33/499: 65%
         print_iou: 0.4055716395378113
14069 masks_dr unique: tensor([-8.3762, -8.3650, -8.3478, ..., 13.5639, 13.5645, 13.5710],
14070
            grad fn=<Unique2Backward0>)
14071 masks_dr unique: tensor([-8.3762, -8.3650, -8.3478, ..., 13.5639, 13.5645, 13.5710],
            grad fn=<Unique2Backward0>)
14072
14073 print_dice: 0.462295264005661,
                                    print iou: 0.300639808177948
14074 Epoch 33/499: 66% | 105/160 [16:49<08:59, 9.81s/it]masks dr unique: tensor([-7.
     6195, -7.6178, -7.6150, ..., 11.7319, 11.7366, 11.7403],
14075
            grad_fn=<Unique2Backward0>)
14076 masks_dr unique: tensor([-7.6195, -7.6178, -7.6150, ..., 11.7319, 11.7366, 11.7403],
            grad_fn=<Unique2Backward0>)
14077
14078 Epoch 3
```