Epoch:1/100 AVG Training Loss:2.000 AVG Test Loss:2.000 AVG Training Acc 27.31 % AVG Test Acc 27.42 % Epoch:2/100 AVG Training Loss:2.002 AVG Test Loss:1.999 AVG Training Acc 27.19 % AVG Test Acc 27.53 % Epoch:3/100 AVG Training Loss:2.000 AVG Test Loss:1.998 AVG Training Acc 27.45 % AVG Test Acc 27.55 % Epoch:4/100 AVG Training Loss:2.001 AVG Test Loss:2.001 AVG Training Acc 27.34 % AVG Test Acc 27.27 % Epoch: 5/100 AVG Training Loss: 2.000 AVG Test Loss: 1.996 AVG Training Acc 27.43 % AVG Test Acc 27.78 % Epoch:6/100 AVG Training Loss:1.999 AVG Test Loss:2.109 AVG Training Acc 27.49 % AVG Test Acc 14.93 % Epoch:7/100 AVG Training Loss:2.000 AVG Test Loss:1.995 AVG Training Acc 27.27 % AVG Test Acc 27.35 % Epoch:8/100 AVG Training Loss:2.001 AVG Test Loss:2.001 AVG Training Acc 27.35 % AVG Test Acc 27.35 % Epoch:9/100 AVG Training Loss:2.000 AVG Test Loss:2.002 AVG Training Acc 27.43 % AVG Test Acc 27.24 % Epoch:10/100 AVG Training Loss:1.999 AVG Test Loss:2.000 AVG Training Acc 27.47 % AVG Test Acc 27.42 % Epoch:11/100 AVG Training Loss:2.001 AVG Test Loss:1.999 AVG Training Acc 27.31 % AVG Test Acc 27.50 % Epoch:12/100 AVG Training Loss:2.001 AVG Test Loss:1.995 AVG Training Acc 27.35 % AVG Test Acc 27.86 % Epoch:13/100 AVG Training Loss:2.001 AVG Test Loss:2.001 AVG Training Acc 27.31 % AVG Test Acc 27.30 % Epoch:14/100 AVG Training Loss:2.001 AVG Test Loss:2.001 AVG Training Acc 27.34 % AVG Test Acc 27.35 % Epoch:15/100 AVG Training Loss:2.001 AVG Test Loss:2.001 AVG Training Acc 27.31 % AVG Test Acc 27.27 % Epoch:16/100 AVG Training Loss:1.999 AVG Test Loss:1.982 AVG Training Acc 27.42 % AVG Test Acc 28.55 % Epoch:17/100 AVG Training Loss:1.973 AVG Test Loss:1.962 AVG Training Acc 29.50 % AVG Test Acc 30.79 % Epoch:18/100 AVG Training Loss:1.955 AVG Test Loss:1.946 AVG Training Acc 31.07 % AVG Test Acc 32.25 % Epoch:19/100 AVG Training Loss:1.936 AVG Test Loss:1.910 AVG Training Acc 33.03 % AVG Test Acc 35.35 % Epoch:20/100 AVG Training Loss:1.905 AVG Test Loss:1.893 AVG Training Acc 36.18 % AVG Test Acc 37.46 % Epoch:21/100 AVG Training Loss:1.890 AVG Test Loss:1.867 AVG Training Acc 37.57 % AVG Test Acc 40.33 % Epoch:22/100 AVG Training Loss:1.878 AVG Test Loss:1.860 AVG Training Acc 38.83 % AVG Test Acc 40.79 % Epoch:24/100 AVG Training Loss:1.860 AVG Test Loss:1.855 AVG Training Acc 40.72 % AVG Test Acc 40.79 % Epoch:25/100 AVG Training Loss:1.853 AVG Test Loss:1.826 AVG Training Acc 41.73 % AVG Test Acc 44.33 % Epoch: 26/100 AVG Training Loss: 1.853 AVG Test Loss: 1.839 AVG Training Acc 41.65 % AVG Test Acc 42.95 % Epoch:27/100 AVG Training Loss:1.843 AVG Test Loss:1.827 AVG Training Acc 42.81 % AVG Test Acc 44.48 % Epoch:28/100 AVG Training Loss:1.840 AVG Test Loss:1.818 AVG Training Acc 42.97 % AVG Test Acc 45.33 % Epoch:29/100 AVG Training Loss:1.835 AVG Test Loss:1.827 AVG Training Acc 43.52 % AVG Test Acc 44.30 % Epoch:30/100 AVG Training Loss:1.830 AVG Test Loss:1.817 AVG Training Acc 44.13 % AVG Test Acc 45.31 % Epoch:31/100 AVG Training Loss:1.824 AVG Test Loss:1.820 AVG Training Acc 44.65 % AVG Test Acc 44.66 % Epoch:32/100 AVG Training Loss:1.822 AVG Test Loss:1.811 AVG Training Acc 44.88 % AVG Test Acc 45.87 %

Epoch: 34/100 AVG Training Loss: 1.811 AVG Test Loss: 1.786 AVG Training Acc 46.06 % AVG Test Acc 48.77 % Epoch:35/100 AVG Training Loss:1.807 AVG Test Loss:1.807 AVG Training Acc 46.36 % AVG Test Acc 46.46 % Epoch:36/100 AVG Training Loss:1.806 AVG Test Loss:1.786 AVG Training Acc 46.40 % AVG Test Acc 48.31 % Epoch: 37/100 AVG Training Loss: 1.801 AVG Test Loss: 1.770 AVG Training Acc 47.06 % AVG Test Acc 50.15 % Epoch:38/100 AVG Training Loss:1.798 AVG Test Loss:1.806 AVG Training Acc 47.37 % AVG Test Acc 46.43 % Epoch:39/100 AVG Training Loss:1.791 AVG Test Loss:1.819 AVG Training Acc 47.90 % AVG Test Acc 44.97 % Epoch:40/100 AVG Training Loss:1.790 AVG Test Loss:1.842 AVG Training Acc 48.36 % AVG Test Acc 42.38 % Epoch:41/100 AVG Training Loss:1.790 AVG Test Loss:1.802 AVG Training Acc 48.03 % AVG Test Acc 46.87 % Epoch:42/100 AVG Training Loss:1.790 AVG Test Loss:1.784 AVG Training Acc 48.19 % AVG Test Acc 48.79 % Epoch: 43/100 AVG Training Loss: 1.781 AVG Test Loss: 1.789 AVG Training Acc 48.97 % AVG Test Acc 48.26 % Epoch:44/100 AVG Training Loss:1.778 AVG Test Loss:1.790 AVG Training Acc 49.46 % AVG Test Acc 48.10 % Epoch:45/100 AVG Training Loss:1.786 AVG Test Loss:1.776 AVG Training Acc 48.47 % AVG Test Acc 49.54 % Epoch:46/100 AVG Training Loss:1.772 AVG Test Loss:1.769 AVG Training Acc 49.96 % AVG Test Acc 50.31 % Epoch:47/100 AVG Training Loss:1.771 AVG Test Loss:1.826 AVG Training Acc 50.00 % AVG Test Acc 44.13 % Epoch:48/100 AVG Training Loss:1.775 AVG Test Loss:1.760 AVG Training Acc 49.68 % AVG Test Acc 51.26 % Epoch:49/100 AVG Training Loss:1.770 AVG Test Loss:1.762 AVG Training Acc 50.18 % AVG Test Acc 51.08 % Epoch:50/100 AVG Training Loss:1.767 AVG Test Loss:1.784 AVG Training Acc 50.60 % AVG Test Acc 48.56 % Epoch:51/100 AVG Training Loss:1.766 AVG Test Loss:1.755 AVG Training Acc 50.46 % AVG Test Acc 51.51 % Epoch:52/100 AVG Training Loss:1.767 AVG Test Loss:1.777 AVG Training Acc 50.45 % AVG Test Acc 49.31 % Epoch:53/100 AVG Training Loss:1.764 AVG Test Loss:1.794 AVG Training Acc 50.88 % AVG Test Acc 47.87 % Epoch:54/100 AVG Training Loss:1.759 AVG Test Loss:1.770 AVG Training Acc 51.41 % AVG Test Acc 50.05 % Epoch:55/100 AVG Training Loss:1.763 AVG Test Loss:1.757 AVG Training Acc 50.99 % AVG Test Acc 51.49 % Epoch:56/100 AVG Training Loss:1.761 AVG Test Loss:1.776 AVG Training Acc 51.13 % AVG Test Acc 49.36 % Epoch:59/100 AVG Training Loss:1.754 AVG Test Loss:1.755 AVG Training Acc 51.80 % AVG Test Acc 51.72 % Epoch:60/100 AVG Training Loss:1.748 AVG Test Loss:1.759 AVG Training Acc 52.25 % AVG Test Acc 51.18 % Epoch:61/100 AVG Training Loss:1.747 AVG Test Loss:1.774 AVG Training Acc 52.56 % AVG Test Acc 49.67 % Epoch:62/100 AVG Training Loss:1.748 AVG Test Loss:1.746 AVG Training Acc 52.29 % AVG Test Acc 52.54 % Epoch:63/100 AVG Training Loss:1.752 AVG Test Loss:1.763 AVG Training Acc 52.00 % AVG Test Acc 51.15 % Epoch:64/100 AVG Training Loss:1.749 AVG Test Loss:1.755 AVG Training Acc 52.20 % AVG Test Acc 51.62 % Epoch:65/100 AVG Training Loss:1.744 AVG Test Loss:1.764 AVG Training Acc 52.89 % AVG Test Acc 50.69 % Epoch:66/100 AVG Training Loss:1.742 AVG Test Loss:1.762 AVG Training Acc 53.01 % AVG Test Acc 51.31 % Epoch:67/100 AVG Training Loss:1.745 AVG Test Loss:1.745 AVG Training Acc 52.84 % AVG Test Acc 52.49 %

Epoch:68/100 AVG Training Loss:1.742 AVG Test Loss:1.749 AVG Training Acc 53.13 % AVG Test Acc 52.10 % Epoch:69/100 AVG Training Loss:1.742 AVG Test Loss:1.759 AVG Training Acc 52.93 % AVG Test Acc 51.05 % Epoch:70/100 AVG Training Loss:1.737 AVG Test Loss:1.752 AVG Training Acc 53.58 % AVG Test Acc 52.10 % Epoch:71/100 AVG Training Loss:1.738 AVG Test Loss:1.739 AVG Training Acc 53.47 % AVG Test Acc 53.28 % Epoch:72/100 AVG Training Loss:1.735 AVG Test Loss:1.786 AVG Training Acc 53.78 % AVG Test Acc 48.26 % Epoch:73/100 AVG Training Loss:1.734 AVG Test Loss:1.783 AVG Training Acc 53.96 % AVG Test Acc 48.90 % Epoch:74/100 AVG Training Loss:1.731 AVG Test Loss:1.740 AVG Training Acc 54.15 % AVG Test Acc 53.03 % Epoch:75/100 AVG Training Loss:1.733 AVG Test Loss:1.754 AVG Training Acc 53.95 % AVG Test Acc 51.67 % Epoch:77/100 AVG Training Loss:1.728 AVG Test Loss:1.747 AVG Training Acc 54.38 % AVG Test Acc 52.28 % Epoch:78/100 AVG Training Loss:1.723 AVG Test Loss:1.744 AVG Training Acc 54.92 % AVG Test Acc 52.74 % Epoch:79/100 AVG Training Loss:1.721 AVG Test Loss:1.759 AVG Training Acc 55.32 % AVG Test Acc 51.03 % Epoch:80/100 AVG Training Loss:1.720 AVG Test Loss:1.731 AVG Training Acc 55.26 % AVG Test Acc 54.05 % Epoch:81/100 AVG Training Loss:1.719 AVG Test Loss:1.746 AVG Training Acc 55.38 % AVG Test Acc 52.46 % Epoch:82/100 AVG Training Loss:1.716 AVG Test Loss:1.731 AVG Training Acc 55.57 % AVG Test Acc 54.16 % Epoch:83/100 AVG Training Loss:1.712 AVG Test Loss:1.758 AVG Training Acc 56.02 % AVG Test Acc 51.13 % Epoch:84/100 AVG Training Loss:1.724 AVG Test Loss:1.740 AVG Training Acc 54.97 % AVG Test Acc 53.13 % Epoch:85/100 AVG Training Loss:1.706 AVG Test Loss:1.735 AVG Training Acc 56.67 % AVG Test Acc 53.36 % Epoch:86/100 AVG Training Loss:1.714 AVG Test Loss:1.731 AVG Training Acc 55.76 % AVG Test Acc 54.10 % Epoch:87/100 AVG Training Loss:1.712 AVG Test Loss:1.722 AVG Training Acc 56.03 % AVG Test Acc 54.87 % Epoch:88/100 AVG Training Loss:1.704 AVG Test Loss:1.724 AVG Training Acc 56.87 % AVG Test Acc 54.87 % Epoch:89/100 AVG Training Loss:1.699 AVG Test Loss:1.730 AVG Training Acc 57.25 % AVG Test Acc 54.18 % Epoch:90/100 AVG Training Loss:1.696 AVG Test Loss:1.726 AVG Training Acc 57.63 % AVG Test Acc 54.62 % Epoch:93/100 AVG Training Loss:1.685 AVG Test Loss:1.731 AVG Training Acc 58.89 % AVG Test Acc 53.90 % Epoch:94/100 AVG Training Loss:1.691 AVG Test Loss:1.728 AVG Training Acc 58.16 % AVG Test Acc 54.18 % Epoch:95/100 AVG Training Loss:1.685 AVG Test Loss:1.731 AVG Training Acc 58.80 % AVG Test Acc 53.93 % Epoch:96/100 AVG Training Loss:1.684 AVG Test Loss:1.748 AVG Training Acc 58.89 % AVG Test Acc 52.13 % Epoch:97/100 AVG Training Loss:1.683 AVG Test Loss:1.740 AVG Training Acc 58.94 % AVG Test Acc 52.98 % Epoch:98/100 AVG Training Loss:1.683 AVG Test Loss:1.750 AVG Training Acc 58.99 % AVG Test Acc 52.00 % Epoch:99/100 AVG Training Loss:1.686 AVG Test Loss:1.725 AVG Training Acc 58.65 % AVG Test Acc 54.54 % Epoch:100/100 AVG Training Loss:1.679 AVG Test Loss:1.710 AVG Training Acc 59.39 % AVG Test Acc 55.98 % Epoch:1/100 AVG Training Loss:2.000 AVG Test Loss:2.000 AVG Training Acc 27.33 % AVG Test Acc 27.40 % Epoch: 2/100 AVG Training Loss: 2.000 AVG Test Loss: 2.004 AVG Training Acc 27.38 % AVG Test Acc 27.04 % Epoch:3/100 AVG Training Loss:2.001 AVG Test Loss:2.002 AVG Training Acc 27.32 % AVG Test Acc 27.24 % Epoch: 4/100 AVG Training Loss: 1.999 AVG Test Loss: 2.003 AVG Training Acc 27.53 % AVG Test Acc 27.14 % Epoch:5/100 AVG Training Loss:1.999 AVG Test Loss:2.000 AVG Training Acc 27.49 % AVG Test Acc 27.42 % Epoch:6/100 AVG Training Loss:2.001 AVG Test Loss:2.005 AVG Training Acc 27.33 % AVG Test Acc 26.91 % Epoch:7/100 AVG Training Loss:2.000 AVG Test Loss:2.002 AVG Training Acc 27.38 % AVG Test Acc 27.17 % Epoch:8/100 AVG Training Loss:2.000 AVG Test Loss:2.003 AVG Training Acc 27.36 % AVG Test Acc 27.12 % Epoch: 9/100 AVG Training Loss: 1.986 AVG Test Loss: 1.978 AVG Training Acc 28.64 % AVG Test Acc 29.40 % Epoch:10/100 AVG Training Loss:1.972 AVG Test Loss:2.003 AVG Training Acc 29.87 % AVG Test Acc 27.07 % Epoch:11/100 AVG Training Loss:1.999 AVG Test Loss:2.004 AVG Training Acc 27.50 % AVG Test Acc 26.99 % Epoch:12/100 AVG Training Loss:2.001 AVG Test Loss:2.003 AVG Training Acc 27.31 % AVG Test Acc 27.09 % Epoch:13/100 AVG Training Loss:1.998 AVG Test Loss:1.988 AVG Training Acc 27.61 % AVG Test Acc 28.48 % Epoch:14/100 AVG Training Loss:1.961 AVG Test Loss:1.936 AVG Training Acc 30.90 % AVG Test Acc 33.50 % Epoch:15/100 AVG Training Loss:1.918 AVG Test Loss:1.907 AVG Training Acc 34.68 % AVG Test Acc 36.17 % Epoch:16/100 AVG Training Loss:1.899 AVG Test Loss:1.894 AVG Training Acc 36.90 % AVG Test Acc 37.58 % Epoch:17/100 AVG Training Loss:1.888 AVG Test Loss:1.902 AVG Training Acc 37.94 % AVG Test Acc 36.28 % Epoch:18/100 AVG Training Loss:1.874 AVG Test Loss:1.880 AVG Training Acc 39.50 % AVG Test Acc 38.35 % Epoch:19/100 AVG Training Loss:1.865 AVG Test Loss:1.862 AVG Training Acc 40.33 % AVG Test Acc 40.69 % Epoch: 20/100 AVG Training Loss: 1.864 AVG Test Loss: 1.906 AVG Training Acc 40.43 % AVG Test Acc 36.48 % Epoch:21/100 AVG Training Loss:1.856 AVG Test Loss:1.873 AVG Training Acc 41.16 % AVG Test Acc 39.74 % Epoch:22/100 AVG Training Loss:1.851 AVG Test Loss:1.864 AVG Training Acc 41.81 % AVG Test Acc 40.10 % Epoch: 23/100 AVG Training Loss: 1.841 AVG Test Loss: 1.858 AVG Training Acc 42.81 % AVG Test Acc 41.23 % Epoch: 24/100 AVG Training Loss: 1.837 AVG Test Loss: 1.840 AVG Training Acc 43.33 % AVG Test Acc 43.15 % Epoch:25/100 AVG Training Loss:1.832 AVG Test Loss:1.831 AVG Training Acc 43.67 % AVG Test Acc 43.51 % Epoch:26/100 AVG Training Loss:1.826 AVG Test Loss:1.829 AVG Training Acc 44.48 % AVG Test Acc 44.28 % Epoch:27/100 AVG Training Loss:1.822 AVG Test Loss:1.826 AVG Training Acc 44.99 % AVG Test Acc 44.66 % Epoch:30/100 AVG Training Loss:1.813 AVG Test Loss:1.816 AVG Training Acc 45.65 % AVG Test Acc 45.15 % Epoch:31/100 AVG Training Loss:1.809 AVG Test Loss:1.809 AVG Training Acc 46.22 % AVG Test Acc 46.10 % Epoch:32/100 AVG Training Loss:1.805 AVG Test Loss:1.801 AVG Training Acc 46.63 % AVG Test Acc 47.13 %

Epoch:34/100 AVG Training Loss:1.801 AVG Test Loss:1.796 AVG Training Acc 46.93 % AVG Test Acc 47.61 % Epoch:36/100 AVG Training Loss:1.791 AVG Test Loss:1.806 AVG Training Acc 48.02 % AVG Test Acc 46.51 % Epoch:37/100 AVG Training Loss:1.789 AVG Test Loss:1.790 AVG Training Acc 48.22 % AVG Test Acc 48.23 % Epoch:38/100 AVG Training Loss:1.782 AVG Test Loss:1.791 AVG Training Acc 49.03 % AVG Test Acc 48.13 % Epoch:39/100 AVG Training Loss:1.784 AVG Test Loss:1.782 AVG Training Acc 48.69 % AVG Test Acc 48.97 % Epoch:41/100 AVG Training Loss:1.782 AVG Test Loss:1.775 AVG Training Acc 48.99 % AVG Test Acc 49.64 % Epoch:42/100 AVG Training Loss:1.776 AVG Test Loss:1.780 AVG Training Acc 49.55 % AVG Test Acc 49.23 % Epoch:43/100 AVG Training Loss:1.772 AVG Test Loss:1.793 AVG Training Acc 50.08 % AVG Test Acc 47.49 % Epoch: 44/100 AVG Training Loss: 1.772 AVG Test Loss: 1.785 AVG Training Acc 49.95 % AVG Test Acc 48.77 % Epoch:45/100 AVG Training Loss:1.769 AVG Test Loss:1.777 AVG Training Acc 50.33 % AVG Test Acc 49.64 % Epoch: 46/100 AVG Training Loss: 1.767 AVG Test Loss: 1.791 AVG Training Acc 50.54 % AVG Test Acc 47.69 % Epoch: 47/100 AVG Training Loss: 1.765 AVG Test Loss: 1.776 AVG Training Acc 50.83 % AVG Test Acc 49.74 % Epoch:48/100 AVG Training Loss:1.761 AVG Test Loss:1.787 AVG Training Acc 51.22 % AVG Test Acc 48.51 % Epoch: 49/100 AVG Training Loss:1.758 AVG Test Loss:1.784 AVG Training Acc 51.43 % AVG Test Acc 48.87 % Epoch:50/100 AVG Training Loss:1.755 AVG Test Loss:1.783 AVG Training Acc 51.83 % AVG Test Acc 48.56 % Epoch:51/100 AVG Training Loss:1.755 AVG Test Loss:1.772 AVG Training Acc 51.75 % AVG Test Acc 49.87 % Epoch:52/100 AVG Training Loss:1.755 AVG Test Loss:1.782 AVG Training Acc 51.70 % AVG Test Acc 48.72 % Epoch:53/100 AVG Training Loss:1.749 AVG Test Loss:1.786 AVG Training Acc 52.37 % AVG Test Acc 48.54 % Epoch:54/100 AVG Training Loss:1.750 AVG Test Loss:1.784 AVG Training Acc 52.22 % AVG Test Acc 48.61 % Epoch: 55/100 AVG Training Loss: 1.750 AVG Test Loss: 1.786 AVG Training Acc 52.23 % AVG Test Acc 48.46 % Epoch:56/100 AVG Training Loss:1.751 AVG Test Loss:1.775 AVG Training Acc 52.16 % AVG Test Acc 49.59 % Epoch: 57/100 AVG Training Loss: 1.748 AVG Test Loss: 1.783 AVG Training Acc 52.42 % AVG Test Acc 48.59 % Epoch:58/100 AVG Training Loss:1.749 AVG Test Loss:1.776 AVG Training Acc 52.43 % AVG Test Acc 49.54 % Epoch:59/100 AVG Training Loss:1.743 AVG Test Loss:1.771 AVG Training Acc 52.90 % AVG Test Acc 49.79 % Epoch:60/100 AVG Training Loss:1.742 AVG Test Loss:1.765 AVG Training Acc 53.07 % AVG Test Acc 50.87 % Epoch:61/100 AVG Training Loss:1.743 AVG Test Loss:1.793 AVG Training Acc 52.89 % AVG Test Acc 48.00 % Epoch:64/100 AVG Training Loss:1.742 AVG Test Loss:1.764 AVG Training Acc 53.15 % AVG Test Acc 50.67 % Epoch:65/100 AVG Training Loss:1.739 AVG Test Loss:1.767 AVG Training Acc 53.49 % AVG Test Acc 50.49 % Epoch:66/100 AVG Training Loss:1.737 AVG Test Loss:1.778 AVG Training Acc 53.72 % AVG Test Acc 49.56 % Epoch:67/100 AVG Training Loss:1.737 AVG Test Loss:1.772 AVG Training Acc 53.54 % AVG Test Acc 50.00 % Epoch:68/100 AVG Training Loss:1.731 AVG Test Loss:1.773 AVG Training Acc 54.08 % AVG Test Acc 49.69 % Epoch:69/100 AVG Training Loss:1.729 AVG Test Loss:1.778 AVG Training Acc 54.40 % AVG Test Acc 48.92 % Epoch:70/100 AVG Training Loss:1.732 AVG Test Loss:1.754 AVG Training Acc 54.23 % AVG Test Acc 51.67 % Epoch:71/100 AVG Training Loss:1.738 AVG Test Loss:1.801 AVG Training Acc 53.35 % AVG Test Acc 46.82 % Epoch:72/100 AVG Training Loss:1.729 AVG Test Loss:1.756 AVG Training Acc 54.40 % AVG Test Acc 51.33 % Epoch:73/100 AVG Training Loss:1.728 AVG Test Loss:1.765 AVG Training Acc 54.53 % AVG Test Acc 50.46 % Epoch:74/100 AVG Training Loss:1.724 AVG Test Loss:1.758 AVG Training Acc 54.84 % AVG Test Acc 51.51 % Epoch:75/100 AVG Training Loss:1.720 AVG Test Loss:1.752 AVG Training Acc 55.37 % AVG Test Acc 51.46 % Epoch:76/100 AVG Training Loss:1.726 AVG Test Loss:1.774 AVG Training Acc 54.55 % AVG Test Acc 49.90 % Epoch:79/100 AVG Training Loss:1.719 AVG Test Loss:1.745 AVG Training Acc 55.44 % AVG Test Acc 52.51 % Epoch:80/100 AVG Training Loss:1.717 AVG Test Loss:1.749 AVG Training Acc 55.51 % AVG Test Acc 52.13 % Epoch:81/100 AVG Training Loss:1.714 AVG Test Loss:1.735 AVG Training Acc 55.96 % AVG Test Acc 53.67 % Epoch:82/100 AVG Training Loss:1.711 AVG Test Loss:1.768 AVG Training Acc 56.07 % AVG Test Acc 49.85 % Epoch:83/100 AVG Training Loss:1.704 AVG Test Loss:1.736 AVG Training Acc 56.94 % AVG Test Acc 53.87 % Epoch:85/100 AVG Training Loss:1.701 AVG Test Loss:1.738 AVG Training Acc 57.08 % AVG Test Acc 53.44 % Epoch:86/100 AVG Training Loss:1.700 AVG Test Loss:1.727 AVG Training Acc 57.16 % AVG Test Acc 54.28 % Epoch:87/100 AVG Training Loss:1.701 AVG Test Loss:1.740 AVG Training Acc 57.17 % AVG Test Acc 53.23 % Epoch:88/100 AVG Training Loss:1.690 AVG Test Loss:1.733 AVG Training Acc 58.24 % AVG Test Acc 54.05 % Epoch:89/100 AVG Training Loss:1.692 AVG Test Loss:1.737 AVG Training Acc 57.94 % AVG Test Acc 53.46 % Epoch:90/100 AVG Training Loss:1.690 AVG Test Loss:1.737 AVG Training Acc 58.24 % AVG Test Acc 53.31 % Epoch:91/100 AVG Training Loss:1.688 AVG Test Loss:1.750 AVG Training Acc 58.59 % AVG Test Acc 52.08 % Epoch:92/100 AVG Training Loss:1.688 AVG Test Loss:1.727 AVG Training Acc 58.53 % AVG Test Acc 54.44 % Epoch:93/100 AVG Training Loss:1.684 AVG Test Loss:1.717 AVG Training Acc 58.80 % AVG Test Acc 55.36 % Epoch:94/100 AVG Training Loss:1.677 AVG Test Loss:1.713 AVG Training Acc 59.72 % AVG Test Acc 55.82 % Epoch:95/100 AVG Training Loss:1.679 AVG Test Loss:1.736 AVG Training Acc 59.41 % AVG Test Acc 53.51 % Epoch:99/100 AVG Training Loss:1.677 AVG Test Loss:1.765 AVG Training Acc 59.55 % AVG Test Acc 50.49 % Epoch:100/100 AVG Training Loss:1.678 AVG Test Loss:1.725 AVG Training Acc 59.45 % AVG Test Acc 54.57 %

Epoch:1/100 AVG Training Loss:2.004 AVG Test Loss:1.992 AVG Training Acc 27.06 % AVG Test Acc 28.20 % Epoch:2/100 AVG Training Loss:2.002 AVG Test Loss:1.993 AVG Training Acc 27.18 % AVG Test Acc 28.10 % Epoch: 4/100 AVG Training Loss: 2.002 AVG Test Loss: 1.989 AVG Training Acc 27.23 % AVG Test Acc 28.51 % Epoch:5/100 AVG Training Loss:2.001 AVG Test Loss:1.992 AVG Training Acc 27.27 % AVG Test Acc 28.20 % Epoch:6/100 AVG Training Loss:2.003 AVG Test Loss:1.990 AVG Training Acc 27.12 % AVG Test Acc 28.41 % Epoch:7/100 AVG Training Loss:2.001 AVG Test Loss:1.993 AVG Training Acc 26.97 % AVG Test Acc 28.15 % Epoch:8/100 AVG Training Loss:2.004 AVG Test Loss:1.991 AVG Training Acc 26.97 % AVG Test Acc 28.33 % Epoch:9/100 AVG Training Loss:2.004 AVG Test Loss:1.992 AVG Training Acc 27.00 % AVG Test Acc 28.18 % Epoch:10/100 AVG Training Loss:2.003 AVG Test Loss:1.988 AVG Training Acc 27.09 % AVG Test Acc 28.56 % Epoch:11/100 AVG Training Loss:2.003 AVG Test Loss:2.016 AVG Training Acc 26.95 % AVG Test Acc 25.56 % Epoch:12/100 AVG Training Loss:2.003 AVG Test Loss:1.989 AVG Training Acc 27.03 % AVG Test Acc 28.48 % Epoch:13/100 AVG Training Loss:2.002 AVG Test Loss:1.992 AVG Training Acc 27.15 % AVG Test Acc 28.05 % Epoch:14/100 AVG Training Loss:1.987 AVG Test Loss:1.984 AVG Training Acc 28.02 % AVG Test Acc 28.36 % Epoch:15/100 AVG Training Loss:1.964 AVG Test Loss:1.929 AVG Training Acc 30.47 % AVG Test Acc 34.23 % Epoch:17/100 AVG Training Loss:1.911 AVG Test Loss:1.871 AVG Training Acc 35.70 % AVG Test Acc 39.83 % Epoch:18/100 AVG Training Loss:1.902 AVG Test Loss:1.859 AVG Training Acc 36.46 % AVG Test Acc 40.83 % Epoch:19/100 AVG Training Loss:1.887 AVG Test Loss:1.905 AVG Training Acc 38.02~% AVG Test Acc 36.28~%Epoch:20/100 AVG Training Loss:1.877 AVG Test Loss:1.868 AVG Training Acc 39.01 % AVG Test Acc 39.80 % Epoch:22/100 AVG Training Loss:1.861 AVG Test Loss:1.845 AVG Training Acc 40.74 % AVG Test Acc 42.29 % Epoch: 23/100 AVG Training Loss: 1.855 AVG Test Loss: 1.807 AVG Training Acc 41.42 % AVG Test Acc 46.37 % Epoch: 24/100 AVG Training Loss: 1.845 AVG Test Loss: 1.830 AVG Training Acc 42.31 % AVG Test Acc 44.01 % Epoch:25/100 AVG Training Loss:1.846 AVG Test Loss:1.834 AVG Training Acc 42.50 % AVG Test Acc 43.60 % Epoch:26/100 AVG Training Loss:1.841 AVG Test Loss:1.828 AVG Training Acc 42.94 % AVG Test Acc 44.32 % Epoch: 27/100 AVG Training Loss: 1.833 AVG Test Loss: 1.815 AVG Training Acc 43.73 % AVG Test Acc 45.78 % Epoch:28/100 AVG Training Loss:1.831 AVG Test Loss:1.812 AVG Training Acc 44.00 % AVG Test Acc 45.73 % Epoch:29/100 AVG Training Loss:1.823 AVG Test Loss:1.824 AVG Training Acc 44.84 % AVG Test Acc 44.55 % Epoch:30/100 AVG Training Loss:1.822 AVG Test Loss:1.797 AVG Training Acc 44.80 % AVG Test Acc 47.42 % Epoch:31/100 AVG Training Loss:1.819 AVG Test Loss:1.796 AVG Training Acc 45.18 % AVG Test Acc 47.60 % Epoch:32/100 AVG Training Loss:1.813 AVG Test Loss:1.794 AVG Training Acc 45.67 % AVG Test Acc 47.91 % Epoch:33/100 AVG Training Loss:1.810 AVG Test Loss:1.777 AVG Training Acc 45.98 % AVG Test Acc 49.47 %

Epoch:34/100 AVG Training Loss:1.805 AVG Test Loss:1.782 AVG Training Acc 46.68 % AVG Test Acc 48.91 % Epoch:35/100 AVG Training Loss:1.806 AVG Test Loss:1.771 AVG Training Acc 46.48 % AVG Test Acc 50.30 % Epoch:36/100 AVG Training Loss:1.802 AVG Test Loss:1.783 AVG Training Acc 46.91 % AVG Test Acc 48.81 % Epoch: 37/100 AVG Training Loss: 1.798 AVG Test Loss: 1.830 AVG Training Acc 47.33 % AVG Test Acc 44.01 % Epoch:38/100 AVG Training Loss:1.796 AVG Test Loss:1.811 AVG Training Acc 47.57 % AVG Test Acc 45.73 % Epoch:39/100 AVG Training Loss:1.794 AVG Test Loss:1.787 AVG Training Acc 47.74 % AVG Test Acc 48.50 % Epoch: 40/100 AVG Training Loss: 1.790 AVG Test Loss: 1.764 AVG Training Acc 48.17 % AVG Test Acc 51.01 % Epoch:41/100 AVG Training Loss:1.786 AVG Test Loss:1.772 AVG Training Acc 48.77 % AVG Test Acc 50.04 % Epoch: 42/100 AVG Training Loss:1.783 AVG Test Loss:1.765 AVG Training Acc 48.93 % AVG Test Acc 50.94 % Epoch:43/100 AVG Training Loss:1.779 AVG Test Loss:1.752 AVG Training Acc 49.38 % AVG Test Acc 52.19 % Epoch: 44/100 AVG Training Loss:1.775 AVG Test Loss:1.762 AVG Training Acc 49.67 % AVG Test Acc 51.04 % Epoch:45/100 AVG Training Loss:1.774 AVG Test Loss:1.772 AVG Training Acc 49.81 % AVG Test Acc 50.14 % Epoch:46/100 AVG Training Loss:1.774 AVG Test Loss:1.769 AVG Training Acc 49.74 % AVG Test Acc 50.12 % Epoch:47/100 AVG Training Loss:1.770 AVG Test Loss:1.756 AVG Training Acc 50.14 % AVG Test Acc 51.40 % Epoch:48/100 AVG Training Loss:1.766 AVG Test Loss:1.747 AVG Training Acc 50.69 % AVG Test Acc 52.35 % Epoch:49/100 AVG Training Loss:1.764 AVG Test Loss:1.744 AVG Training Acc 50.77 % AVG Test Acc 52.84 % Epoch:50/100 AVG Training Loss:1.765 AVG Test Loss:1.779 AVG Training Acc 50.67 % AVG Test Acc 49.22 % Epoch:51/100 AVG Training Loss:1.762 AVG Test Loss:1.784 AVG Training Acc 50.97 % AVG Test Acc 48.63 % Epoch:52/100 AVG Training Loss:1.758 AVG Test Loss:1.741 AVG Training Acc 51.44 % AVG Test Acc 53.09 % Epoch:53/100 AVG Training Loss:1.760 AVG Test Loss:1.772 AVG Training Acc 51.35 % AVG Test Acc 50.04 % Epoch:54/100 AVG Training Loss:1.755 AVG Test Loss:1.749 AVG Training Acc 51.82 % AVG Test Acc 52.19 % Epoch:55/100 AVG Training Loss:1.760 AVG Test Loss:1.770 AVG Training Acc 51.35 % AVG Test Acc 50.12 % Epoch:56/100 AVG Training Loss:1.755 AVG Test Loss:1.745 AVG Training Acc 51.80 % AVG Test Acc 52.76 % Epoch:58/100 AVG Training Loss:1.746 AVG Test Loss:1.744 AVG Training Acc 52.74 % AVG Test Acc 52.73 % Epoch: 59/100 AVG Training Loss: 1.743 AVG Test Loss: 1.758 AVG Training Acc 53.00 % AVG Test Acc 51.19 % Epoch: 60/100 AVG Training Loss: 1.749 AVG Test Loss: 1.754 AVG Training Acc 52.33 % AVG Test Acc 51.81 % Epoch:61/100 AVG Training Loss:1.747 AVG Test Loss:1.759 AVG Training Acc 52.59 % AVG Test Acc 51.27 % Epoch:62/100 AVG Training Loss:1.743 AVG Test Loss:1.754 AVG Training Acc 53.09 % AVG Test Acc 51.68 % Epoch:63/100 AVG Training Loss:1.742 AVG Test Loss:1.738 AVG Training Acc 52.98 % AVG Test Acc 53.50 % Epoch:64/100 AVG Training Loss:1.741 AVG Test Loss:1.747 AVG Training Acc 53.32 % AVG Test Acc 52.53 % Epoch:65/100 AVG Training Loss:1.743 AVG Test Loss:1.739 AVG Training Acc 52.94 % AVG Test Acc 53.43 % Epoch:66/100 AVG Training Loss:1.740 AVG Test Loss:1.741 AVG Training Acc 53.34 % AVG Test Acc 53.09 % Epoch:67/100 AVG Training Loss:1.736 AVG Test Loss:1.744 AVG Training Acc 53.52 % AVG Test Acc 52.78 %

Epoch:68/100 AVG Training Loss:1.733 AVG Test Loss:1.738 AVG Training Acc 53.95 % AVG Test Acc 53.32 % Epoch:69/100 AVG Training Loss:1.738 AVG Test Loss:1.741 AVG Training Acc 53.44 % AVG Test Acc 53.02 % Epoch:70/100 AVG Training Loss:1.734 AVG Test Loss:1.735 AVG Training Acc 53.87 % AVG Test Acc 53.84 % Epoch:71/100 AVG Training Loss:1.732 AVG Test Loss:1.749 AVG Training Acc 54.04 % AVG Test Acc 52.35 % Epoch:72/100 AVG Training Loss:1.731 AVG Test Loss:1.742 AVG Training Acc 54.11 % AVG Test Acc 53.04 % Epoch:74/100 AVG Training Loss:1.728 AVG Test Loss:1.749 AVG Training Acc 54.43 % AVG Test Acc 52.40 % Epoch:77/100 AVG Training Loss:1.724 AVG Test Loss:1.758 AVG Training Acc 54.97 % AVG Test Acc 51.37 % Epoch:78/100 AVG Training Loss:1.726 AVG Test Loss:1.728 AVG Training Acc 54.68 % AVG Test Acc 54.14 % Epoch:79/100 AVG Training Loss:1.724 AVG Test Loss:1.746 AVG Training Acc 54.81 % AVG Test Acc 52.68 % Epoch:80/100 AVG Training Loss:1.719 AVG Test Loss:1.734 AVG Training Acc 55.40 % AVG Test Acc 53.58 % Epoch:81/100 AVG Training Loss:1.719 AVG Test Loss:1.734 AVG Training Acc 55.47 % AVG Test Acc 54.09 % Epoch:84/100 AVG Training Loss:1.708 AVG Test Loss:1.726 AVG Training Acc 56.55 % AVG Test Acc 54.32 % Epoch:85/100 AVG Training Loss:1.710 AVG Test Loss:1.724 AVG Training Acc 56.25 % AVG Test Acc 54.63 % Epoch:86/100 AVG Training Loss:1.705 AVG Test Loss:1.728 AVG Training Acc 56.87 % AVG Test Acc 54.12 % Epoch:87/100 AVG Training Loss:1.700 AVG Test Loss:1.719 AVG Training Acc 57.27 % AVG Test Acc 55.43 % Epoch:88/100 AVG Training Loss:1.697 AVG Test Loss:1.721 AVG Training Acc 57.47 % AVG Test Acc 55.17 % Epoch:89/100 AVG Training Loss:1.697 AVG Test Loss:1.732 AVG Training Acc 57.45 % AVG Test Acc 53.84 % Epoch:91/100 AVG Training Loss:1.692 AVG Test Loss:1.720 AVG Training Acc 57.88 % AVG Test Acc 55.04 % Epoch:92/100 AVG Training Loss:1.689 AVG Test Loss:1.724 AVG Training Acc 58.29 % AVG Test Acc 54.68 % Epoch:93/100 AVG Training Loss:1.682 AVG Test Loss:1.764 AVG Training Acc 58.82 % AVG Test Acc 50.86 % Epoch:94/100 AVG Training Loss:1.677 AVG Test Loss:1.725 AVG Training Acc 59.57 % AVG Test Acc 54.55 % Epoch:95/100 AVG Training Loss:1.673 AVG Test Loss:1.711 AVG Training Acc 60.04 % AVG Test Acc 55.94 % Epoch:96/100 AVG Training Loss:1.667 AVG Test Loss:1.694 AVG Training Acc 60.40 % AVG Test Acc 57.69 % Epoch:98/100 AVG Training Loss:1.655 AVG Test Loss:1.724 AVG Training Acc 61.74 % AVG Test Acc 54.43 % Epoch:99/100 AVG Training Loss:1.650 AVG Test Loss:1.702 AVG Training Acc 62.39 % AVG Test Acc 56.61 %

Epoch:1/100 AVG Training Loss:2.001 AVG Test Loss:1.999 AVG Training Acc 27.37 % AVG Test Acc 27.51 % Epoch:2/100 AVG Training Loss:2.000 AVG Test Loss:1.996 AVG Training Acc 27.36 % AVG Test Acc 27.76 % Epoch:3/100 AVG Training Loss:2.002 AVG Test Loss:1.996 AVG Training Acc 27.15 % AVG Test Acc 27.82 % Epoch:5/100 AVG Training Loss:1.999 AVG Test Loss:1.996 AVG Training Acc 27.46 % AVG Test Acc 27.76 % Epoch:6/100 AVG Training Loss:2.001 AVG Test Loss:2.002 AVG Training Acc 27.33 % AVG Test Acc 27.23 % Epoch:7/100 AVG Training Loss:2.002 AVG Test Loss:1.997 AVG Training Acc 27.24 % AVG Test Acc 27.74 % Epoch:8/100 AVG Training Loss:2.000 AVG Test Loss:1.997 AVG Training Acc 27.42 % AVG Test Acc 27.66 % Epoch:9/100 AVG Training Loss:2.002 AVG Test Loss:1.997 AVG Training Acc 27.18 % AVG Test Acc 27.69 % Epoch:10/100 AVG Training Loss:2.001 AVG Test Loss:1.999 AVG Training Acc 27.29 % AVG Test Acc 27.51 % Epoch:11/100 AVG Training Loss:2.002 AVG Test Loss:1.996 AVG Training Acc 27.23 % AVG Test Acc 27.84 % Epoch:12/100 AVG Training Loss:2.002 AVG Test Loss:1.998 AVG Training Acc 27.20 % AVG Test Acc 27.64 % Epoch:13/100 AVG Training Loss:2.000 AVG Test Loss:1.997 AVG Training Acc 27.40 % AVG Test Acc 27.69 % Epoch:14/100 AVG Training Loss:2.002 AVG Test Loss:1.999 AVG Training Acc 27.17 % AVG Test Acc 27.53 % Epoch:15/100 AVG Training Loss:2.004 AVG Test Loss:1.996 AVG Training Acc 26.86 % AVG Test Acc 27.74 % Epoch:16/100 AVG Training Loss:1.988 AVG Test Loss:1.986 AVG Training Acc 28.30 % AVG Test Acc 28.53 % Epoch:17/100 AVG Training Loss:1.978 AVG Test Loss:1.968 AVG Training Acc 29.23 % AVG Test Acc 30.41 % Epoch:18/100 AVG Training Loss:1.966 AVG Test Loss:1.960 AVG Training Acc 30.51 % AVG Test Acc 31.15 % Epoch:19/100 AVG Training Loss:1.945 AVG Test Loss:1.934 AVG Training Acc 32.47 % AVG Test Acc 33.92 % Epoch:20/100 AVG Training Loss:1.922 AVG Test Loss:1.900 AVG Training Acc 34.74 % AVG Test Acc 36.80 % Epoch:21/100 AVG Training Loss:1.901 AVG Test Loss:1.896 AVG Training Acc 36.84~% AVG Test Acc 37.57~%Epoch:22/100 AV6 Training Loss:1.892 AV6 Test Loss:1.877 AV6 Training Acc 37.70 % AV6 Test Acc 39.44 % Epoch:23/100 AVG Training Loss:1.882 AVG Test Loss:1.852 AVG Training Acc 38.54 % AVG Test Acc 42.08 %  $^{\circ}$ Epoch:24/100 AVG Training Loss:1.869 AVG Test Loss:1.859 AVG Training Acc 39.97 % AVG Test Acc 40.90 % Epoch:25/100 AVG Training Loss:1.863 AVG Test Loss:1.853 AVG Training Acc 40.72 % AVG Test Acc 41.62 % Epoch:26/100 AVG Training Loss:1.859 AVG Test Loss:1.861 AVG Training Acc 41.11 % AVG Test Acc 40.44 % Epoch: 27/100 AVG Training Loss: 1.850 AVG Test Loss: 1.825 AVG Training Acc 42.05 % AVG Test Acc 44.34 % Epoch:28/100 AVG Training Loss:1.842 AVG Test Loss:1.854 AVG Training Acc 42.87 % AVG Test Acc 41.65 % Epoch:29/100 AVG Training Loss:1.838 AVG Test Loss:1.819 AVG Training Acc 43.24 % AVG Test Acc 45.03 % Epoch:30/100 AVG Training Loss:1.830 AVG Test Loss:1.817 AVG Training Acc 43.90 % AVG Test Acc 45.27 % Epoch:31/100 AVG Training Loss:1.822 AVG Test Loss:1.805 AVG Training Acc 44.89 % AVG Test Acc 46.70 % Epoch:32/100 AVG Training Loss:1.822 AVG Test Loss:1.813 AVG Training Acc 44.94 % AVG Test Acc 45.47 % Epoch: 33/100 AVG Training Loss: 1.817 AVG Test Loss: 1.794 AVG Training Acc 45.28 % AVG Test Acc 48.14 %

Fold 4

Epoch: 34/100 AVG Training Loss:1.809 AVG Test Loss:1.783 AVG Training Acc 46.30 % AVG Test Acc 49.14 % Epoch:35/100 AVG Training Loss:1.810 AVG Test Loss:1.790 AVG Training Acc 46.02 % AVG Test Acc 48.29 % Epoch:36/100 AVG Training Loss:1.804 AVG Test Loss:1.789 AVG Training Acc 46.73 % AVG Test Acc 48.70 % Epoch: 37/100 AVG Training Loss: 1.800 AVG Test Loss: 1.804 AVG Training Acc 47.11 % AVG Test Acc 46.45 % Epoch:38/100 AVG Training Loss:1.794 AVG Test Loss:1.785 AVG Training Acc 47.60 % AVG Test Acc 48.45 % Epoch:39/100 AVG Training Loss:1.789 AVG Test Loss:1.788 AVG Training Acc 48.41 % AVG Test Acc 48.17 % Epoch: 40/100 AVG Training Loss: 1.790 AVG Test Loss: 1.784 AVG Training Acc 48.12 % AVG Test Acc 48.52 % Epoch:41/100 AVG Training Loss:1.786 AVG Test Loss:1.769 AVG Training Acc 48.55 % AVG Test Acc 50.45 % Epoch: 42/100 AVG Training Loss: 1.785 AVG Test Loss: 1.760 AVG Training Acc 48.68 % AVG Test Acc 51.27 % Epoch:43/100 AVG Training Loss:1.779 AVG Test Loss:1.806 AVG Training Acc 49.36 % AVG Test Acc 46.06 % Epoch:44/100 AVG Training Loss:1.777 AVG Test Loss:1.769 AVG Training Acc 49.47 % AVG Test Acc 50.17 % Epoch: 45/100 AVG Training Loss: 1.780 AVG Test Loss: 1.781 AVG Training Acc 49.23 % AVG Test Acc 49.04 % Epoch:46/100 AVG Training Loss:1.771 AVG Test Loss:1.787 AVG Training Acc 50.10 % AVG Test Acc 48.45 % Epoch:47/100 AVG Training Loss:1.769 AVG Test Loss:1.758 AVG Training Acc 50.16 % AVG Test Acc 51.35 % Epoch: 48/100 AVG Training Loss: 1.766 AVG Test Loss: 1.785 AVG Training Acc 50.71 % AVG Test Acc 48.78 % Epoch: 49/100 AVG Training Loss: 1.768 AVG Test Loss: 1.767 AVG Training Acc 50.36 % AVG Test Acc 50.45 % Epoch:50/100 AVG Training Loss:1.770 AVG Test Loss:1.753 AVG Training Acc 50.26 % AVG Test Acc 51.99 % Epoch:52/100 AVG Training Loss:1.761 AVG Test Loss:1.748 AVG Training Acc 51.15 % AVG Test Acc 52.78 % Epoch:53/100 AVG Training Loss:1.756 AVG Test Loss:1.753 AVG Training Acc 51.63 % AVG Test Acc 51.89 % Epoch:54/100 AVG Training Loss:1.761 AVG Test Loss:1.757 AVG Training Acc 51.13 % AVG Test Acc 51.55 % Epoch:55/100 AVG Training Loss:1.758 AVG Test Loss:1.754 AVG Training Acc 51.45 % AVG Test Acc 51.99 % Epoch:56/100 AVG Training Loss:1.762 AVG Test Loss:1.760 AVG Training Acc 50.82 % AVG Test Acc 51.35 % Epoch:57/100 AVG Training Loss:1.750 AVG Test Loss:1.787 AVG Training Acc 52.32 % AVG Test Acc 48.45 % Epoch:58/100 AVG Training Loss:1.755 AVG Test Loss:1.764 AVG Training Acc 51.80 % AVG Test Acc 50.81 % Epoch:59/100 AVG Training Loss:1.752 AVG Test Loss:1.768 AVG Training Acc 51.98 % AVG Test Acc 50.19 % Epoch: 60/100 AVG Training Loss: 1.750 AVG Test Loss: 1.751 AVG Training Acc 52.15 % AVG Test Acc 52.22 % Epoch:61/100 AVG Training Loss:1.741 AVG Test Loss:1.748 AVG Training Acc 53.18 % AVG Test Acc 52.30 % Epoch:62/100 AVG Training Loss:1.746 AVG Test Loss:1.745 AVG Training Acc 52.62 % AVG Test Acc 52.45 % Epoch:63/100 AVG Training Loss:1.743 AVG Test Loss:1.746 AVG Training Acc 53.05 % AVG Test Acc 52.53 % Epoch:64/100 AVG Training Loss:1.742 AVG Test Loss:1.756 AVG Training Acc 53.03 % AVG Test Acc 51.68 % Epoch:65/100 AVG Training Loss:1.737 AVG Test Loss:1.748 AVG Training Acc 53.51 % AVG Test Acc 52.37 % Epoch: 67/100 AVG Training Loss: 1.738 AVG Test Loss: 1.740 AVG Training Acc 53.53 % AVG Test Acc 53.40 % Epoch:68/100 AVG Training Loss:1.731 AVG Test Loss:1.740 AVG Training Acc 53.93 % AVG Test Acc 53.30 %

Epoch:69/100 AVG Training Loss:1.731 AVG Test Loss:1.754 AVG Training Acc 54.19 % AVG Test Acc 51.68 % Epoch:70/100 AVG Training Loss:1.732 AVG Test Loss:1.761 AVG Training Acc 53.81 % AVG Test Acc 50.89 % Epoch:71/100 AVG Training Loss:1.732 AVG Test Loss:1.750 AVG Training Acc 53.78 % AVG Test Acc 51.96 % Epoch:72/100 AVG Training Loss:1.723 AVG Test Loss:1.751 AVG Training Acc 55.08 % AVG Test Acc 51.94 % Epoch:73/100 AVG Training Loss:1.721 AVG Test Loss:1.737 AVG Training Acc 55.11 % AVG Test Acc 53.55 % Epoch:74/100 AVG Training Loss:1.721 AVG Test Loss:1.749 AVG Training Acc 55.07 % AVG Test Acc 52.35 % Epoch:75/100 AVG Training Loss:1.713 AVG Test Loss:1.741 AVG Training Acc 56.09 % AVG Test Acc 52.84 % Epoch:76/100 AVG Training Loss:1.713 AVG Test Loss:1.734 AVG Training Acc 55.86 % AVG Test Acc 53.76 % Epoch:77/100 AVG Training Loss:1.714 AVG Test Loss:1.738 AVG Training Acc 55.86 % AVG Test Acc 53.35 % Epoch:78/100 AVG Training Loss:1.708 AVG Test Loss:1.719 AVG Training Acc 56.32 % AVG Test Acc 55.35 % Epoch:79/100 AVG Training Loss:1.701 AVG Test Loss:1.726 AVG Training Acc 56.93 % AVG Test Acc 54.43 % Epoch:80/100 AVG Training Loss:1.702 AVG Test Loss:1.753 AVG Training Acc 57.00 % AVG Test Acc 51.24 % Epoch:81/100 AVG Training Loss:1.699 AVG Test Loss:1.719 AVG Training Acc 57.34 % AVG Test Acc 55.04 % Epoch:82/100 AVG Training Loss:1.692 AVG Test Loss:1.728 AVG Training Acc 57.83 % AVG Test Acc 53.99 % Epoch:83/100 AVG Training Loss:1.687 AVG Test Loss:1.727 AVG Training Acc 58.51 % AVG Test Acc 54.09 % Epoch:84/100 AVG Training Loss:1.680 AVG Test Loss:1.733 AVG Training Acc 59.16 % AVG Test Acc 53.63 % Epoch:85/100 AVG Training Loss:1.677 AVG Test Loss:1.702 AVG Training Acc 59.57 % AVG Test Acc 57.02 % Epoch:86/100 AVG Training Loss:1.666 AVG Test Loss:1.687 AVG Training Acc 60.53 % AVG Test Acc 58.51 % Epoch:87/100 AVG Training Loss:1.668 AVG Test Loss:1.702 AVG Training Acc 60.22 % AVG Test Acc 56.51 % Epoch:88/100 AVG Training Loss:1.660 AVG Test Loss:1.705 AVG Training Acc 61.31 % AVG Test Acc 56.04 % Epoch:89/100 AVG Training Loss:1.658 AVG Test Loss:1.700 AVG Training Acc 61.34 % AVG Test Acc 56.84 % Epoch:90/100 AVG Training Loss:1.657 AVG Test Loss:1.683 AVG Training Acc 61.63 % AVG Test Acc 58.74 % Epoch:91/100 AVG Training Loss:1.659 AVG Test Loss:1.699 AVG Training Acc 61.31 % AVG Test Acc 57.45 % Epoch:93/100 AVG Training Loss:1.645 AVG Test Loss:1.686 AVG Training Acc 62.92 % AVG Test Acc 58.61 % Epoch:95/100 AVG Training Loss:1.637 AVG Test Loss:1.678 AVG Training Acc 63.87 % AVG Test Acc 59.07 % Epoch:96/100 AVG Training Loss:1.633 AVG Test Loss:1.715 AVG Training Acc 64.02 % AVG Test Acc 55.68 % Epoch:97/100 AVG Training Loss:1.636 AVG Test Loss:1.686 AVG Training Acc 63.82 % AVG Test Acc 58.61 % Epoch:98/100 AVG Training Loss:1.633 AVG Test Loss:1.704 AVG Training Acc 64.00 % AVG Test Acc 56.84 % Epoch:99/100 AVG Training Loss:1.625 AVG Test Loss:1.674 AVG Training Acc 64.79 % AVG Test Acc 59.43 % Epoch:100/100 AVG Training Loss:1.621 AVG Test Loss:1.671 AVG Training Acc 65.29 % AVG Test Acc 59.94 % Epoch:1/100 AVG Training Loss:1.997 AVG Test Loss:2.013 AVG Training Acc 27.63 % AVG Test Acc 26.07 % Epoch:2/100 AVG Training Loss:1.997 AVG Test Loss:2.011 AVG Training Acc 27.73 % AVG Test Acc 26.30 % Epoch:3/100 AVG Training Loss:1.997 AVG Test Loss:2.010 AVG Training Acc 27.74 % AVG Test Acc 26.38 % Epoch:4/100 AVG Training Loss:1.997 AVG Test Loss:2.010 AVG Training Acc 27.68 % AVG Test Acc 26.35 % Epoch:5/100 AVG Training Loss:1.997 AVG Test Loss:2.013 AVG Training Acc 27.67 % AVG Test Acc 26.10 % Epoch:6/100 AVG Training Loss:1.997 AVG Test Loss:2.011 AVG Training Acc 27.68 % AVG Test Acc 26.28 % Epoch:7/100 AVG Training Loss:1.998 AVG Test Loss:2.009 AVG Training Acc 27.61 % AVG Test Acc 26.53 % Epoch:8/100 AVG Training Loss:1.997 AVG Test Loss:2.011 AVG Training Acc 27.61 % AVG Test Acc 26.28 % Epoch:9/100 AVG Training Loss:1.998 AVG Test Loss:2.011 AVG Training Acc 27.65 % AVG Test Acc 26.28 % Epoch:10/100 AVG Training Loss:1.997 AVG Test Loss:2.009 AVG Training Acc 27.63 % AVG Test Acc 26.53 % Epoch:11/100 AVG Training Loss:1.997 AVG Test Loss:2.012 AVG Training Acc 27.74 % AVG Test Acc 26.23 % Epoch:12/100 AVG Training Loss:1.999 AVG Test Loss:2.002 AVG Training Acc 27.49 % AVG Test Acc 26.25 % Epoch:13/100 AVG Training Loss:1.983 AVG Test Loss:1.987 AVG Training Acc 28.76 % AVG Test Acc 28.43 % Epoch:14/100 AVG Training Loss:1.990 AVG Test Loss:1.982 AVG Training Acc 28.26 % AVG Test Acc 28.82 % Epoch:15/100 AVG Training Loss:1.963 AVG Test Loss:1.971 AVG Training Acc 30.76 % AVG Test Acc 29.61 % Epoch:16/100 AVG Training Loss:1.941 AVG Test Loss:1.931 AVG Training Acc 32.60 % AVG Test Acc 33.51 % Epoch:17/100 AVG Training Loss:1.921 AVG Test Loss:1.985 AVG Training Acc 34.80 % AVG Test Acc 28.48 % Epoch:19/100 AVG Training Loss:1.896 AVG Test Loss:1.889 AVG Training Acc 37.20 % AVG Test Acc 38.00 % Epoch:20/100 AVG Training Loss:1.882 AVG Test Loss:1.874 AVG Training Acc 38.47 % AVG Test Acc 39.49 % Epoch:21/100 AVG Training Loss:1.873 AVG Test Loss:1.885 AVG Training Acc 39.61 % AVG Test Acc 38.59 % Epoch: 22/100 AVG Training Loss: 1.862 AVG Test Loss: 1.883 AVG Training Acc 40.62 % AVG Test Acc 38.26 % Epoch:23/100 AVG Training Loss:1.856 AVG Test Loss:1.869 AVG Training Acc 41.27 % AVG Test Acc 39.62 % Epoch: 26/100 AVG Training Loss: 1.835 AVG Test Loss: 1.833 AVG Training Acc 43.47 % AVG Test Acc 43.62 % Epoch:27/100 AVG Training Loss:1.831 AVG Test Loss:1.837 AVG Training Acc 43.92 % AVG Test Acc 43.47 % Epoch: 28/100 AVG Training Loss: 1.828 AVG Test Loss: 1.837 AVG Training Acc 44.23 % AVG Test Acc 43.21 % Epoch:29/100 AVG Training Loss:1.819 AVG Test Loss:1.823 AVG Training Acc 45.31 % AVG Test Acc 44.83 % Epoch:30/100 AVG Training Loss:1.815 AVG Test Loss:1.829 AVG Training Acc 45.64 % AVG Test Acc 44.06 % Epoch:31/100 AVG Training Loss:1.814 AVG Test Loss:1.802 AVG Training Acc 45.79 % AVG Test Acc 46.93 % Epoch:32/100 AVG Training Loss:1.808 AVG Test Loss:1.814 AVG Training Acc 46.23 % AVG Test Acc 45.83 % Epoch:33/100 AVG Training Loss:1.801 AVG Test Loss:1.800 AVG Training Acc 47.11 % AVG Test Acc 46.88 % Epoch:34/100 AVG Training Loss:1.797 AVG Test Loss:1.790 AVG Training Acc 47.29 % AVG Test Acc 48.24 % Epoch:35/100 AVG Training Loss:1.793 AVG Test Loss:1.813 AVG Training Acc 47.87 % AVG Test Acc 45.86 % Epoch:36/100 AVG Training Loss:1.794 AVG Test Loss:1.802 AVG Training Acc 47.64 % AVG Test Acc 46.86 % Epoch: 37/100 AVG Training Loss: 1.785 AVG Test Loss: 1.820 AVG Training Acc 48.76 % AVG Test Acc 45.27 % Epoch:38/100 AVG Training Loss:1.788 AVG Test Loss:1.802 AVG Training Acc 48.34 % AVG Test Acc 46.75 % Epoch:39/100 AVG Training Loss:1.782 AVG Test Loss:1.813 AVG Training Acc 48.95 % AVG Test Acc 45.55 % Epoch:40/100 AVG Training Loss:1.781 AVG Test Loss:1.792 AVG Training Acc 48.93 % AVG Test Acc 47.88 % Epoch:41/100 AVG Training Loss:1.774 AVG Test Loss:1.820 AVG Training Acc 49.72 % AVG Test Acc 44.96 % Epoch: 42/100 AVG Training Loss:1.774 AVG Test Loss:1.781 AVG Training Acc 49.76 % AVG Test Acc 49.11 % Epoch: 43/100 AVG Training Loss: 1.770 AVG Test Loss: 1.792 AVG Training Acc 50.30 % AVG Test Acc 47.75 % Epoch:44/100 AVG Training Loss:1.765 AVG Test Loss:1.779 AVG Training Acc 50.81 % AVG Test Acc 49.06 % Epoch:45/100 AVG Training Loss:1.764 AVG Test Loss:1.782 AVG Training Acc 50.76 % AVG Test Acc 48.91 % Epoch:46/100 AVG Training Loss:1.765 AVG Test Loss:1.787 AVG Training Acc 50.80 % AVG Test Acc 48.22 % Epoch:47/100 AVG Training Loss:1.759 AVG Test Loss:1.768 AVG Training Acc 51.36 % AVG Test Acc 50.45 % Epoch: 48/100 AVG Training Loss: 1.750 AVG Test Loss: 1.782 AVG Training Acc 52.23 % AVG Test Acc 48.68 % Epoch: 49/100 AVG Training Loss: 1.754 AVG Test Loss: 1.769 AVG Training Acc 51.83 % AVG Test Acc 50.32 % Epoch:50/100 AVG Training Loss:1.753 AVG Test Loss:1.775 AVG Training Acc 51.96 % AVG Test Acc 49.88 % Epoch:51/100 AVG Training Loss:1.749 AVG Test Loss:1.779 AVG Training Acc 52.34 % AVG Test Acc 49.37 % Epoch:52/100 AVG Training Loss:1.750 AVG Test Loss:1.778 AVG Training Acc 52.12 % AVG Test Acc 49.45 % Epoch:53/100 AVG Training Loss:1.750 AVG Test Loss:1.777 AVG Training Acc 52.37 % AVG Test Acc 49.32 % Epoch:54/100 AVG Training Loss:1.747 AVG Test Loss:1.778 AVG Training Acc 52.32 % AVG Test Acc 49.11 % Epoch:55/100 AVG Training Loss:1.743 AVG Test Loss:1.762 AVG Training Acc 53.04 % AVG Test Acc 50.96 % Epoch:56/100 AVG Training Loss:1.742 AVG Test Loss:1.770 AVG Training Acc 53.15 % AVG Test Acc 50.17 % Epoch: 57/100 AVG Training Loss: 1.741 AVG Test Loss: 1.774 AVG Training Acc 53.14 % AVG Test Acc 49.63 % Epoch:58/100 AVG Training Loss:1.738 AVG Test Loss:1.758 AVG Training Acc 53.44 % AVG Test Acc 51.42 % Epoch:59/100 AVG Training Loss:1.741 AVG Test Loss:1.766 AVG Training Acc 53.07 % AVG Test Acc 50.55 % Epoch:60/100 AVG Training Loss:1.731 AVG Test Loss:1.772 AVG Training Acc 54.16 % AVG Test Acc 49.83 % Epoch:61/100 AVG Training Loss:1.734 AVG Test Loss:1.784 AVG Training Acc 53.91 % AVG Test Acc 48.68 % Epoch:62/100 AVG Training Loss:1.737 AVG Test Loss:1.768 AVG Training Acc 53.60 % AVG Test Acc 50.17 % Epoch:63/100 AVG Training Loss:1.733 AVG Test Loss:1.768 AVG Training Acc 53.95 % AVG Test Acc 50.32 % Epoch: 64/100 AVG Training Loss: 1.733 AVG Test Loss: 1.758 AVG Training Acc 54.02 % AVG Test Acc 51.24 % Epoch:65/100 AVG Training Loss:1.730 AVG Test Loss:1.776 AVG Training Acc 54.40 % AVG Test Acc 49.37 % Epoch:66/100 AVG Training Loss:1.730 AVG Test Loss:1.766 AVG Training Acc 54.30 % AVG Test Acc 50.45 % Epoch: 67/100 AVG Training Loss: 1.730 AVG Test Loss: 1.772 AVG Training Acc 54.16 % AVG Test Acc 49.88 % Epoch:68/100 AVG Training Loss:1.730 AVG Test Loss:1.771 AVG Training Acc 54.37 % AVG Test Acc 49.88 % Epoch:69/100 AVG Training Loss:1.730 AVG Test Loss:1.770 AVG Training Acc 54.22 % AVG Test Acc 50.01 % Epoch:70/100 AVG Training Loss:1.724 AVG Test Loss:1.752 AVG Training Acc 54.79 % AVG Test Acc 51.76 % Epoch:71/100 AVG Training Loss:1.724 AVG Test Loss:1.773 AVG Training Acc 55.03 % AVG Test Acc 49.83 % Epoch:72/100 AVG Training Loss:1.719 AVG Test Loss:1.775 AVG Training Acc 55.25 % AVG Test Acc 49.96 % Epoch:73/100 AVG Training Loss:1.715 AVG Test Loss:1.747 AVG Training Acc 55.72 % AVG Test Acc 52.14 % Epoch:74/100 AVG Training Loss:1.712 AVG Test Loss:1.752 AVG Training Acc 56.08 % AVG Test Acc 52.04 % Epoch:75/100 AVG Training Loss:1.716 AVG Test Loss:1.746 AVG Training Acc 55.79 % AVG Test Acc 52.63 % Epoch:76/100 AVG Training Loss:1.712 AVG Test Loss:1.738 AVG Training Acc 56.07 % AVG Test Acc 53.22 % Epoch:77/100 AVG Training Loss:1.708 AVG Test Loss:1.772 AVG Training Acc 56.37 % AVG Test Acc 49.68 % Epoch:78/100 AVG Training Loss:1.698 AVG Test Loss:1.738 AVG Training Acc 57.59 % AVG Test Acc 53.07 % Epoch:79/100 AVG Training Loss:1.706 AVG Test Loss:1.754 AVG Training Acc 56.51 % AVG Test Acc 51.60 % Epoch:80/100 AVG Training Loss:1.699 AVG Test Loss:1.727 AVG Training Acc 57.40 % AVG Test Acc 54.66 % Epoch:81/100 AVG Training Loss:1.694 AVG Test Loss:1.754 AVG Training Acc 57.77 % AVG Test Acc 51.58 % Epoch:82/100 AVG Training Loss:1.690 AVG Test Loss:1.738 AVG Training Acc 58.27 % AVG Test Acc 53.32 % Epoch:83/100 AVG Training Loss:1.689 AVG Test Loss:1.743 AVG Training Acc 58.41 % AVG Test Acc 52.96 % Epoch:84/100 AVG Training Loss:1.689 AVG Test Loss:1.733 AVG Training Acc 58.35 % AVG Test Acc 53.61 % Epoch:85/100 AVG Training Loss:1.685 AVG Test Loss:1.747 AVG Training Acc 58.83 % AVG Test Acc 52.27 % Epoch:86/100 AVG Training Loss:1.683 AVG Test Loss:1.735 AVG Training Acc 58.95 % AVG Test Acc 53.86 % Epoch:87/100 AV6 Training Loss:1.681 AV6 Test Loss:1.721 AV6 Training Acc 59.13 % AV6 Test Acc 54.81 % Epoch:88/100 AVG Training Loss:1.683 AVG Test Loss:1.730 AVG Training Acc 59.01 % AVG Test Acc 54.17 % Epoch:90/100 AVG Training Loss:1.677 AVG Test Loss:1.723 AVG Training Acc 59.74 % AVG Test Acc 54.81 % Epoch:91/100 AVG Training Loss:1.681 AVG Test Loss:1.720 AVG Training Acc 59.20 % AVG Test Acc 55.22 % Epoch:92/100 AVG Training Loss:1.668 AVG Test Loss:1.733 AVG Training Acc 60.49 % AVG Test Acc 53.84 % Epoch:93/100 AVG Training Loss:1.671 AVG Test Loss:1.721 AVG Training Acc 60.29 % AVG Test Acc 54.91 % Epoch:94/100 AVG Training Loss:1.671 AVG Test Loss:1.745 AVG Training Acc 60.37 % AVG Test Acc 52.48 % Epoch:95/100 AVG Training Loss:1.673 AVG Test Loss:1.734 AVG Training Acc 59.96 % AVG Test Acc 53.63 % Epoch:96/100 AVG Training Loss:1.669 AVG Test Loss:1.730 AVG Training Acc 60.53 % AVG Test Acc 54.22 % Epoch:97/100 AVG Training Loss:1.666 AVG Test Loss:1.756 AVG Training Acc 60.72 % AVG Test Acc 51.48 % Epoch:98/100 AVG Training Loss:1.665 AVG Test Loss:1.722 AVG Training Acc 60.78 % AVG Test Acc 54.91 % Epoch:99/100 AVG Training Loss:1.663 AVG Test Loss:1.726 AVG Training Acc 61.01 % AVG Test Acc 54.14 % Epoch:100/100 AVG Training Loss:1.663 AVG Test Loss:1.749 AVG Training Acc 60.97 % AVG Test Acc 52.12 %