```
close all;
clear variables;
clc;
```

```
folder = "CUB_200_2011_Subset20classes";
trainingImageNames = readtable(fullfile(folder, "train.txt"), 'ReadVariableNames', false);
trainingImageNames.Properties.VariableNames = {'index', 'imageName'};
validationImageNames = readtable(fullfile(folder, "validate.txt"), 'ReadVariableNames', false);
validationImageNames.Properties.VariableNames = {'index', 'imageName'};
testImageNames = readtable(fullfile(folder, "test.txt"),'ReadVariableNames', false);
testImageNames.Properties.VariableNames = {'index', 'imageName'};
classNames = readtable(fullfile(folder, "classes.txt"), 'ReadVariableNames', false);
classNames.Properties.VariableNames = {'index', 'className'};
imageClassLabels = readtable(fullfile(folder, "image_class_labels.txt"), 'ReadVariableNames', fa
imageClassLabels.Properties.VariableNames = {'index', 'classLabel'};
folder = "CUB_200_2011_Subset20classes/";
trainingImageList = strings(height(trainingImageNames), 1);
for iI = 1:height(trainingImageNames)
    trainingImageList(iI) = string(fullfile(folder, "images/", ...
        string(cell2mat(trainingImageNames.imageName(iI)))));
end
validationImageList = strings(height(validationImageNames), 1);
for iI = 1:height(validationImageNames)
    validationImageList(iI) = string(folder + "images/" + ...
        string(cell2mat(validationImageNames.imageName(iI))));
end
testImageList = strings(height(testImageNames), 1);
for iI = 1:height(testImageNames)
    testImageList(iI) = string(folder + "images/" + ...
        string(cell2mat(testImageNames.imageName(iI))));
end
trainingImageDS = imageDatastore(trainingImageList, 'labelSource', 'foldernames', ...
    'FileExtensions', {'.jpg'});
trainingImageDS.ReadFcn = @readImagesIntoDatastore;
validationImageDS = imageDatastore(validationImageList, 'labelSource', 'foldernames', ...
    'FileExtensions', {'.jpg'});
validationImageDS.ReadFcn = @readImagesIntoDatastore;
testImageDS = imageDatastore(testImageList, 'labelSource', 'foldernames', ...
    'FileExtensions', {'.jpg'});
```

```
testImageDS.ReadFcn = @readImagesIntoDatastore;
countEachLabel(trainingImageDS)
countEachLabel(validationImageDS)
countEachLabel(testImageDS)
```

```
% target_size = [100, 100];
target_size = [224, 224];

% resizing using transform operation
training_image_datastore_resized = transform(trainingImageDS, @(image_i) imresize(image_i, target_validation_image_datastore_resized = transform(validationImageDS, @(image_i) imresize(image_i, test_image_datastore_resized = transform(testImageDS, @(image_i) imresize(image_i, target_size))

% Combine transformed datastores and labels
training_labels = arrayDatastore(trainingImageDS.Labels);
training_combined_datastore = combine(training_image_datastore_resized, training_labels);
validation_labels = arrayDatastore(validationImageDS.Labels);
validation_combined_datastore = combine(validation_image_datastore_resized, validation_labels)
test_labels = arrayDatastore(testImageDS.Labels);
test_combined_datastore = combine(test_image_datastore_resized, test_labels);
```

```
% cnn architecture
number_of_layers = 6;
layers = [
    imageInputLayer([224 224 3])
    convolution2dLayer(3, 8, 'Padding', 'same')
    batchNormalizationLayer
    reluLayer
    maxPooling2dLayer(2, 'Stride', 2)
    convolution2dLayer(3, 16, 'Padding', 'same')
    batchNormalizationLayer
    reluLayer
    maxPooling2dLayer(2, 'Stride', 2)
    convolution2dLayer(3, 32, 'Padding', 'same')
    batchNormalizationLayer
    reluLayer
    maxPooling2dLayer(2, 'Stride', 2)
    convolution2dLayer(3, 64, 'Padding', 'same')
```

```
batchNormalizationLayer
reluLayer
maxPooling2dLayer(2, 'Stride', 2)
convolution2dLayer(3, 128, 'Padding', 'same')
batchNormalizationLayer
reluLayer
maxPooling2dLayer(2, 'Stride', 2)
convolution2dLayer(3, 256, 'Padding', 'same')
batchNormalizationLayer
reluLayer
maxPooling2dLayer(2, 'Stride', 2)
% Fully connected block
fullyConnectedLayer(512)
batchNormalizationLayer
reluLayer
dropoutLayer(0.5)
fullyConnectedLayer(256)
batchNormalizationLayer
reluLayer
dropoutLayer(0.5)
fullyConnectedLayer(20)
softmaxLayer
classificationLayer];
```

```
if (gpuDeviceCount() > 0)
    disp('Found GPU:');
    disp(gpuDeviceTable);
    gpu_device = gpuDevice(1);
    reset(gpu_device); % Clear previous values that might still be on the GPU
end
```

Found GPU:

Index Name ComputeCapability DeviceAvailable DeviceSelected

1 "GRID T4-8Q" "7.5" true true

```
% learning_rate = 0.01;
learning_rate = 0.001;
% learning_rate = 0.0001;

% batch_size = 8;
batch_size = 16;
% batch_size = 32;
```

Training on single GPU. Initializing input data normalization.

poch   	Iteration     	Time Elapsed   (hh:mm:ss)	Mini-batch   Accuracy	Validation   Accuracy	Mini-batch Loss	Validation Loss	Base Lear Rate
1	1	00:00:17	12.50%	4.05%	3.2906	3.4662	0
1	2	00:00:18	0.00%	İ	4.2655		0
1	3	00:00:19	0.00%		4.3847		0
1	4	00:00:19	6.25%		3.6725		0
1	5	00:00:20	6.25%		4.4591		0
1	6	00:00:21	6.25%		3.3919		0
1	7	00:00:21	6.25%		3.4850		0
1	8	00:00:22	0.00%	ĺ	3.6325	ĺ	0
1	9	00:00:22	0.00%	İ	3.9105		0
1	10	00:00:23	0.00%	İ	3.9444		0
1	11	00:00:24	0.00%	İ	3.8588		0
1	12	00:00:25	6.25%	İ	3.3650	ĺ	0
1	13	00:00:25	18.75%	İ	3.6809		0
1	14	00:00:26	6.25%	İ	3.8612	ĺ	0
1	15	00:00:27	12.50%	İ	3.3442	ĺ	0
1	16	00:00:27	0.00%	İ	4.0934	ĺ	e
1 İ	17	00:00:28	6.25%	į	3.7296	İ	e
1	18	00:00:29	12.50%	İ	3.4437	ĺ	e
1	19	00:00:30	6.25%	İ	3.4471	ĺ	0
1	20	00:00:30	18.75%	İ	3.6098	ĺ	6
1 j	21	00:00:31	0.00%	j	3.8964		6
1 j	22	00:00:32	6.25%	j	3.9558		e
1 j	23	00:00:32	0.00%	į	3.0675	İ	6
1 j	24	00:00:33	12.50%	į	3.3935	j	6
1 j	25	00:00:34	0.00%	į	3.7423	j	6
1 j	26	00:00:34	12.50%	j	3.5657		6
1 İ	27	00:00:35	6.25%	j	3.2106		6
1 j	28	00:00:36	0.00%	j	3.4059		6
1 j	29	00:00:36	0.00%	į	3.6377	j	6
1 İ	30	00:00:37	12.50%	j	2.7218		6
1 İ	31	00:00:38	6.25%	i	3.5248		6
1	32	00:00:38	0.00%	i	3.3528	j	6
1 i	33	00:00:39	12.50%	i	3.3870		6
1 i	34	00:00:40	6.25%	i	3.5953		(
1	35	00:00:40	25.00%	i	3.1033		(
1	36	00:00:41	0.00%	i	4.1376		(
1	37	00:00:42	6.25%		3.1230		

1	38	00:00:42	0.00%		3.9309	
1	39	00:00:43	0.00%	İ	3.6107	ĺ
j 1	1 40	00:00:43	0.00%	į	3.2074	į
j 1	41	00:00:43	6.25%	į	3.8616	į
j 2	42	00:00:45	0.00%	i	3.4697	j
2	43	00:00:45	12.50%	i	3.2899	İ
2	44	00:00:46	12.50%	i	3.5998	
2	45	00:00:46	6.25%	i	3.2676	
2	46	00:00:47	6.25%		3.6124	
	47	00:00:47	12.50%		2.9026	l
2	47	00:00:48	18.75%	ļ	:	
2	:	00:00:49		l I	3.3654   3.4402	
2	49	!	12.50%	10 26%	!	2 0101
2	50	00:00:56	12.50%	10.36%	3.4439	3.0181
2	51	00:00:57	0.00%	ļ	3.6041	l
2	52	00:00:58	6.25%		3.4631	
2	53	00:00:58	18.75%		3.0407	ļ
2	54	00:00:59	6.25%		3.2651	ļ
2	55	00:01:00	6.25%	ļ	3.3670	l
2	56	00:01:00	6.25%		3.2436	
2	57	00:01:01	6.25%		3.5831	
2	58	00:01:02	6.25%		3.2493	
2	59	00:01:02	0.00%		2.9464	
2	60	00:01:03	25.00%		2.8661	
2	61	00:01:03	12.50%		2.6636	
2	62	00:01:04	6.25%	İ	3.2001	į
j 2	63	00:01:05	25.00%	į	2.9586	į
j 2	64	00:01:05	12.50%	į	3.0655	į
j 2	65	00:01:06	12.50%	į	3.2731	j
j 2	66	00:01:06	0.00%	į	3.2935	j
j 2	67	00:01:07	12.50%	i	3.5507	j
2	68	00:01:08	12.50%	i	2.9713	İ
2	69	00:01:08	18.75%	i	2.7291	İ
2	70	00:01:09	12.50%	i	2.9265	İ
2	71	00:01:09	6.25%	i	3.5448	
2	72	00:01:10	6.25%	i	3.4943	
2	73	00:01:11	0.00%	i	3.2149	
2	74	00:01:11	6.25%	i	3.6451	
2	75	00:01:11	12.50%		3.1130	
2	76	00:01:12	12.50%		3.3659	
2	70	00:01:13	25.00%		2.6519	
	77	00:01:14	6.25%		3.5468	
2	79	:	6.25%	l I	:	
2	•	00:01:15	6.25%	l I	3.4504	
	80	00:01:15	18.75%	l I	3.0726	
2	81	00:01:16			2.9724	
2	82	00:01:16	0.00%	l	3.1368	
3	83	00:01:17	6.25%		2.9057	
3	84	00:01:18	37.50%	 	2.7031	l I
3	85	00:01:18	18.75%	ļ	2.6289	ļ
3	86	00:01:19	18.75%	ļ	3.1781	ļ
3	87	00:01:19	25.00%	ļ	2.8438	ļ
3	88	00:01:20	18.75%		2.8034	ļ
] 3	89	00:01:20	0.00%		3.5098	ļ
] 3	90	00:01:21	0.00%		3.0321	į.
] 3	91	00:01:21	18.75%		2.8841	į.
] 3	92	00:01:22	18.75%	ļ	2.9655	ļ
] 3	93	00:01:23	12.50%	I	3.3037	
3	94	00:01:23	6.25%		3.3666	
3	95	00:01:24	6.25%		3.0630	
] 3	96	00:01:24	6.25%		3.1943	
3	97	00:01:25	12.50%	İ	2.9524	
j 3	98	00:01:26	18.75%	İ	2.6169	j
j 3	99	00:01:26	12.50%	į	2.8049	j
3	100	00:01:34	6.25%	18.02%	2.9885	2.7736
3	101	•	6.25%	j	3.1440	j
] 3	101	00:01:35	6.25%	l	3.1440	1

- 1	3	102	00:01:35	18.75%	I	2.9110	I
i	3	103	00:01:36	6.25%	i	3.0812	i
i	3	104	00:01:36	12.50%	i	3.4245	i
-					:	•	}
- !	3	105	00:01:37	31.25%		2.9862	!
ļ	3	106	00:01:38	18.75%	ļ	2.6316	ļ
	3	107	00:01:38	6.25%		3.3834	
	3	108	00:01:39	12.50%		3.1169	
ij	3	109	00:01:40	12.50%	j	2.9423	į
i	3	110	00:01:40	0.00%	i	3.0142	i
-		111	00:01:40	12.50%	¦	2.7154	
-	3				 	!	}
-	3	112	00:01:41	31.25%	!	2.5064	!
ļ	3	113	00:01:42	6.25%	!	3.0767	ļ .
	3	114	00:01:43	6.25%		3.1441	
	3	115	00:01:43	6.25%		3.0723	
	3	116	00:01:44	18.75%		2.7944	
i	3	117	00:01:44	12.50%	į	3.0849	į
i	3	118	00:01:45	25.00%	i	2.4063	i
i	3	119	00:01:46	0.00%	i	3.1094	i
-			00:01:46	•	¦	•	
-	3	120		31.25%	!	3.4767	
- [	3	121	00:01:47	6.25%	ļ	3.2678	!
ļ	3	122	00:01:47	6.25%		3.7332	
	3	123	00:01:48	12.50%		3.0911	
	4	124	00:01:49	12.50%		2.4680	
ĺ	4	125	00:01:49	18.75%	İ	3.0144	j
i	4 İ	126	00:01:50	25.00%	į	2.4703	i
i	4	127	00:01:51	6.25%	i	3.5548	i
i	4	128	00:01:51	18.75%	i	3.1064	i
H	4	129	00:01:51	6.25%	¦	2.9845	i
-				25.00%	¦	•	
-	4	130	00:01:52	•	!	2.6462	ļ
- [	4	131	00:01:53	18.75%	ļ	2.9242	!
ļ	4	132	00:01:53	18.75%	!	2.8349	ļ.
	4	133	00:01:54	12.50%		2.7203	
	4	134	00:01:55	12.50%		2.7280	
	4	135	00:01:55	18.75%		3.0861	
	4	136	00:01:56	25.00%		3.0171	1
j	4 İ	137	00:01:57	25.00%	j	2.5218	į
i	4 İ	138	00:01:57	25.00%	i	2.5447	i
i	4	139	00:01:58	12.50%	i	2.9544	i
i	4	140	00:01:59	18.75%	i	3.1681	i
-	4	141	00:01:59	6.25%	¦	3.0206	
-					 	:	}
-	4	142	00:02:00	31.25%	!	2.7332	!
ļ	4	143	00:02:01	25.00%		2.9710	!
ļ	4	144	00:02:01	18.75%		3.3680	
	4	145	00:02:02	6.25%	l	3.0128	
	4	146	00:02:03	25.00%		2.7119	
	4	147	00:02:03	18.75%		3.0004	
	4	148	00:02:04	12.50%	İ	3.0605	
İ	4	149	00:02:04	0.00%	į	3.5025	j
i	4	150	00:02:12	6.25%	18.02%	3.5664	2.8080
i	4	151	00:02:12	18.75%	10.02%	2.5460	
H	4	152	00:02:12	25.00%	¦	2.5978	
-	:				 		
- [	4	153	00:02:14	31.25%	ļ	2.1320	
ļ	4	154	00:02:14	12.50%	!	2.9513	
ļ	4	155	00:02:15	18.75%		2.5044	
ļ	4	156	00:02:16	18.75%	ļ	2.8279	
	4	157	00:02:16	18.75%	l	2.9565	
	4	158	00:02:17	37.50%		2.7057	
ĺ	4	159	00:02:18	6.25%	İ	3.4429	j
i	4	160	00:02:18	18.75%	į	2.9205	j
i	4	161	00:02:19	18.75%	i	2.7448	
l	4	162	00:02:19	6.25%	i	3.2698	
I	4	163	00:02:19	12.50%	ļ	3.0147	
-	:				 	:	
- [	4	164	00:02:20	12.50%	ļ	3.0949	
- 1	5	165	00:02:22	37.50%	I	2.6005	I

1	e 1	166	00.02.22	a aao/ I	1	2 1040 l	1
-	5	166   167	00:02:22	0.00%	ļ	3.1848	 
-	5	· ·	00:02:23	18.75%		2.7901	
-	5	168	00:02:23	31.25%		2.1835	
	5	169	00:02:24	18.75%		2.6086	
-	5	170	00:02:25	0.00%		3.4733	
ļ	5	171	00:02:25	12.50%		2.8138	
-	5	172	00:02:26	6.25%	ļ	2.7533	
ļ	5	173	00:02:26	12.50%	ļ	3.1296	
ļ	5	174	00:02:27	0.00%	!	3.1795	
!	5	175	00:02:28	43.75%	!	2.1077	
ļ	5	176	00:02:28	18.75%	!	2.8381	
!	5	177	00:02:29	25.00%	ļ	2.9513	ļ
	5	178	00:02:30	12.50%	ļ	2.3486	
	5	179	00:02:30	12.50%	ļ	2.8619	
	5	180	00:02:31	25.00%	ļ	2.7002	
ļ	5	181	00:02:32	6.25%	ļ	3.1157	
	5	182	00:02:33	12.50%		3.0060	
	5	183	00:02:33	12.50%		2.9667	
	5	184	00:02:34	25.00%		2.5929	
	5	185	00:02:35	12.50%		2.4893	
	5	186	00:02:35	25.00%		2.5634	
	5	187	00:02:36	6.25%		3.0900	
	5	188	00:02:36	25.00%		2.7746	
	5	189	00:02:37	6.25%		2.9643	
	5	190	00:02:38	25.00%		3.1202	
	5	191	00:02:39	25.00%		2.6167	
	5	192	00:02:39	25.00%		2.6995	
	5	193	00:02:40	6.25%		3.1424	
	5	194	00:02:40	43.75%		2.5113	
	5	195	00:02:41	12.50%		2.9232	
İ	5	196	00:02:42	18.75%	į	2.7566	İ
	5	197	00:02:42	18.75%		2.9368	
İ	5	198	00:02:43	18.75%	į	3.1628	İ
İ	5	199	00:02:44	12.50%	į	2.7561	İ
ĺ	5	200	00:02:51	25.00%	22.07%	2.7254	2.6388
İ	5	201	00:02:52	12.50%	į	2.6288	j
	5	202	00:02:52	12.50%		2.9095	
İ	5	203	00:02:53	18.75%	į	2.6676	į
ĺ	5	204	00:02:53	18.75%	į	2.6673	į
İ	5	205	00:02:53	18.75%	į	2.3771	į
ĺ	6	206	00:02:55	25.00%	į	2.7869	į
	6	207	00:02:55	6.25%		2.9432	
	6	208	00:02:56	31.25%		2.4578	
	6	209	00:02:56	12.50%		2.8061	
	6	210	00:02:57	25.00%		2.6356	
	6	211	00:02:58	12.50%	į	2.6681	
	6	212	00:02:58	43.75%		2.1888	
	6	213	00:02:59	0.00%	į	2.5003	
	6	214	00:02:59	37.50%		2.2740	
	6	215	00:03:00	25.00%		2.7784	
	6	216	00:03:01	37.50%		2.2330	
	6	217	00:03:01	31.25%		2.6255	
	6	218	00:03:02	6.25%		2.9983	
	6	219	00:03:03	18.75%		2.7550	
	6	220	00:03:03	43.75%		1.9471	
	6	221	00:03:04	31.25%	j	2.1933	j
	6	222	00:03:05	25.00%	ĺ	2.3994	
	6	223	00:03:05	12.50%	į	2.8683	j
	6	224	00:03:06	6.25%	į	2.8665	j
İ	6	225	00:03:07	31.25%	į	2.2656	j
İ	6	226	00:03:08	37.50%	j	2.2364	j
į	6	227	00:03:09	12.50%	į	2.9641	j
İ	6	228	00:03:09	12.50%	į	2.9038	j
İ	6	229	00:03:10	25.00%	i	2.2193	i
	'	•	- 1	· 1	'	- 1	1

0.00 0.00 0.00 0.00

6   239   06:03:11   18.75%   2.6409   6   231   06:03:12   43.75%   2.4619   6   232   06:03:12   43.75%   2.4619   6   232   06:03:13   18.75%   2.7111   1   6   234   06:03:13   18.75%   2.7111   1   6   234   06:03:14   25.00%   2.5.00%   2.5.199   6   235   06:03:15   18.75%   2.5.6551   6   236   06:03:15   18.75%   2.5.6551   6   236   06:03:16   18.75%   2.5.6551   6   237   06:03:17   25.00%   2.7.222   6   238   06:03:17   25.00%   2.7.222   6   238   06:03:17   25.00%   2.7.222   6   238   06:03:18   18.75%   3.0.806   6   244   06:03:18   18.75%   3.0.806   6   244   06:03:18   18.75%   3.0.806   6   244   06:03:20   18.75%   3.0.806   6   244   06:03:20   18.75%   3.0.806   6   244   06:03:20   37.56%   2.5.00%   2.5.118   6   244   06:03:20   37.56%   2.5.00%   2.5.118   6   244   06:03:21   37.56%   2.5.00%   2.5.00%   2.5.118   6   244   06:03:22   37.56%   2.5.00%								
6	1	6 l	230 l	00:03:11	18.75% l	I	2.5410 l	1
6	:	:				i i	· · · · · · · · · · · · · · · · · · ·	i
6	:	:	· ·		•	!	•	!
6		6	· ·		•	ļ		Į.
6   235   00:03:15   18.75%   2.5651		6	233	00:03:13	18.75%		2.7111	
6   235   00:03:15   18.75%   2.5651	i i	6 İ	234	00:03:14	25.00%	ĺ	2.5199	İ
6   236   00-03:16   18.75%   2.8249   6   237   00-03:17   25.08%   2.7222   6   238   00-03:17   25.08%   2.7222   6   238   00-03:18   18.75%   3.0806   6   240   00-03:18   18.75%   3.0806   6   240   00-03:20   18.75%   2.4842   6   242   00-03:21   18.75%   2.4842   6   242   00-03:21   18.75%   2.5118   6   242   00-03:21   15.08%   2.5118   6   244   00-03:22   37.50%   2.5517   6   244   00-03:23   12.50%   2.5666   2.6664   6   246   00-03:23   37.50%   2.6664   2.5584   6   246   00-03:23   37.50%   2.5584   2.5584   7   247   00-03:25   31.25%   2.5684   7   248   00-03:25   31.25%   2.5684   2.5673   7   248   00-03:25   31.25%   2.5673   2.5673   7   250   00-03:35   37.50%   2.6624   2.5223   2.5823   7   250   00-03:35   37.50%   2.6624   2.5223   2.5823   7   251   00-03:35   37.50%   2.6626   2.5625   2.5223   2.5823	:	:		:		ŀ		i
6   238   69:83:17   25.00%   2.7222   6   238   69:83:17   12.50%   2.7189   6   239   69:83:18   18.75%   3.0304   3.0905   6   240   69:83:19   18.75%   3.0905   3.0905   6   241   69:83:20   18.75%   2.4042   2.5118   6   242   69:83:21   25.00%   2.9339   2.4042   2.6517   2.6517   2.6664   2.6	:	:	· ·	:	•	!	· · · · · · · · · · · · · · · · · · ·	ļ
6   238   06:03:18   13.75%   3.0304   6   239   06:03:18   18.75%   3.0304   6   240   06:03:19   18.75%   3.0005   6   241   06:03:20   18.75%   2.4042   6   242   06:03:21   18.75%   2.5118	ļ	6	· ·		•	ļ	· · · · · · · · · · · · · · · · · · ·	Į.
6   239   08:83:18   18.75%   3.0304   6   240   08:83:19   18.75%   3.0605   6   241   08:83:20   18.75%   2.4042   2.4042   6   241   08:03:20   18.75%   2.4042   2.5118   6   242   08:03:21   25.06%   2.9339   2.4042   2.5118   6   243   08:83:21   25.06%   2.9339   2.6664   3.256   3.256   2.256   3.256   2.26517   2.266   3.256   3.256   2.26517   2.266   3.256   3.256   2.26517   2.277   2.277   2.277   2.277   2.278   2.277   2.278   2.277   2.278   2		6	237	00:03:17	25.00%		2.7222	
6   239   08:83:18   18.75%   3.0304   6   240   08:83:19   18.75%   3.0605   6   241   08:83:20   18.75%   2.4042   2.4042   6   241   08:03:20   18.75%   2.4042   2.5118   6   242   08:03:21   25.06%   2.9339   2.4042   2.5118   6   243   08:83:21   25.06%   2.9339   2.6664   3.256   3.256   2.256   3.256   2.26517   2.266   3.256   3.256   2.26517   2.266   3.256   3.256   2.26517   2.277   2.277   2.277   2.277   2.278   2.277   2.278   2.277   2.278   2	i	6 İ	238 İ	00:03:17 İ	12.50%	i	2.7189 İ	İ
6   240   08:03:19   18.75%   3.0005   6   241   08:03:20   18.75%   2.4042   6   242   08:03:21   25.00%   2.5118   2.5118   6   243   08:03:21   25.00%   2.5118   2.5118   6   244   08:03:22   37.50%   2.6517	:		· ·		•	i i	· · · · · · · · · · · · · · · · · · ·	i
6   241   08:03:20   18.75%   2.4042   6   242   08:03:21   18.75%   2.5118   6   244   08:03:21   25.00%   2.9339   2.6517   6   244   08:03:22   37.50%   2.6517   2.6664   2.45   08:03:23   12.50%   2.6664   2.6517   2.6664   2.45   08:03:23   31.25%   2.6664   2.3584   2.6664   2.47   2.47   08:03:25   31.25%   2.6489   2.9673   2.6667   2.48   08:03:25   31.25%   2.6489   2.9673   2.2689   2.2689   2.274   2.522   2.689   2.278   2.5233   2.5366	:	- 1		:		!		!
6   242   00:03:21   18.75%   2.5118   6   243   00:03:21   25.00%   2.9339   6   244   00:03:22   37.50%   2.6517   6   245   00:03:23   37.50%   2.6664   6   246   00:03:23   37.50%   2.3584   7   247   00:03:25   31.25%   2.5073   7   248   00:03:25   31.25%   2.5073   7   248   00:03:25   12.50%   2.5073   7   249   00:03:25   12.50%   2.5073   7   250   00:03:35   18.75%   20.27%   2.5223   2.5823   7   251   00:03:35   37.50%   2.2506   7   252   00:03:35   37.50%   2.2506   7   253   00:03:36   50.00%   2.0092   7   254   00:03:36   50.00%   2.0092   7   255   00:03:38   25.00%   2.3768   7   256   00:03:38   25.00%   2.3768   7   257   00:03:39   18.75%   2.5403   7   258   00:03:39   18.75%   2.5403   7   259   00:03:41   31.25%   2.5402   7   260   00:03:41   31.25%   2.5402   7   261   00:03:41   31.25%   2.5402   7   262   00:03:42   25.00%   2.2762   7   263   00:03:42   25.00%   2.2763   7   264   00:03:45   18.75%   2.5402   7   265   00:03:42   25.00%   2.27563   7   266   00:03:41   31.25%   2.5543   7   267   00:03:42   25.00%   2.27563   7   268   00:03:41   31.25%   2.5608   2.7563   7   269   00:03:41   31.25%   2.5608   2.7563   7   260   00:03:42   25.00%   2.27563   7   261   00:03:45   18.75%   2.5431   3.1783   7   265   00:03:45   37.50%   2.25763   7   266   00:03:45   37.50%   2.25763   7   267   00:03:45   37.50%   2.25763   7   268   00:03:45   37.50%   2.25763   7   277   00:03:45   37.50%   2.25763   7   278   00:03:55   43.75%   2.200%   2.2379   7   277   00:03:55   43.75%   2.2394   2.2394   7   278   00:03:55   43.75%   2.200%   2.2379   7   277   00:03:55   43.75%   2.2394   2.2394   7   278   00:03:55   31.25%   2.2394   2.2394   2.2394   7   279   00:03:55   31.25%   2.2394   2.23	:	:	· ·	:		ļ	· · · · · · · · · · · · · · · · · · ·	Į.
6   244   00:03:21   25.00%   2.9339   6   244   00:03:22   37.50%   2.6517   6   245   00:03:23   37.50%   2.6517   6   246   00:03:23   37.50%   2.6664   2.45   00:03:23   37.50%   2.6664   2.46   00:03:25   31.25%   2.6489   7   247   00:03:25   31.25%   2.6489   7   248   00:03:25   31.25%   2.9673   1.6171   7   248   00:03:25   31.25%   2.9673   1.6171   7   250   00:03:35   37.50%   2.9673   2.5223   2.5823   7   251   00:03:35   37.50%   2.5223   2.5823   7   251   00:03:36   31.25%   2.4206		6	241	00:03:20	18.75%		2.4042	
6   244   00:03:21   25.00%   2.9339   6   244   00:03:22   37.50%   2.6517   6   245   00:03:23   37.50%   2.6517   6   246   00:03:23   37.50%   2.6664   2.45   00:03:23   37.50%   2.6664   2.46   00:03:25   31.25%   2.6489   7   247   00:03:25   31.25%   2.6489   7   248   00:03:25   31.25%   2.9673   1.6171   7   248   00:03:25   31.25%   2.9673   1.6171   7   250   00:03:35   37.50%   2.9673   2.5223   2.5823   7   251   00:03:35   37.50%   2.5223   2.5823   7   251   00:03:36   31.25%   2.4206	1	6 l	242	00:03:21	18.75%	1	2.5118	I
6   244   00:03:22   37.50%   2.6517   6   245   00:03:23   37.50%   2.6564   6   245   00:03:23   37.50%   2.2584   2.65664   7   247   00:03:25   31.25%   2.6664   7   247   00:03:25   31.25%   2.6889   2.4689   7   248   00:03:25   56.25%   2.9673   2.480   00:03:25   56.25%   2.9673   2.1711   7   250   00:03:25   56.25%   2.9673   2.4206   37.50%   37.50%   2.5233   2.5233   37.50%   2.5233   2.5233   37.50%   2.5233   2.5233   37.50%   2.5233   2.5233   37.50%   2.5233   2.5233   37.50%   2.5233   2.5233   37.50%   2.5233   2.5233   37.50%   2.5233   2.5233   37.50%   2.5233   2.5233   2.5233   37.50%   2.5233   2.5233   2.5233   37.50%   2.5233   2.5233   2.5233   37.50%   2.5233	:	:	· ·		·	i	· · · · · · · · · · · · · · · · · · ·	i
6   245   00:03:23   12.50%   2.6664   6   246   00:03:25   31.25%   2.5384   2.5384   7   247   00:03:25   31.25%   2.6489   7   248   00:03:25   12.50%   2.9673   7   249   00:03:26   56.25%   1.6171   7   250   00:03:35   37.50%   20.27%   2.5223   2.5823   7   249   00:03:26   56.25%   1.6171   7   250   00:03:35   37.50%   2.4266   3   2.5266   3   3   3   3   3   3   3   3   3	:	:	· ·		·	!	· · · · · · · · · · · · · · · · · · ·	<u> </u>
6	:	:		:	:	!		ļ .
7		6	245	00:03:23	12.50%		2.6664	l
7		6 l	246	00:03:23	37.50%		2.3584	1
7   248   00:03:25   12.50%   2.9673   7   249   00:03:26   56.25%   1.6171   7   250   00:03:26   56.25%   2.5223   2.5823   2.5823   7   251   00:03:35   37.50%   2.4206   7   252   00:03:36   31.25%   2.5366   7   252   00:03:36   31.25%   2.5366   7   253   00:03:36   50.00%   2.0092   2.0092   7   254   00:03:37   343.75%   2.1599   7   255   00:03:38   25.00%   2.3768   2.1599   7   256   00:03:38   25.00%   2.3768   2.1101   1   2   2   2   2   2   2   2   2			· ·		·	i	· · · · · · · · · · · · · · · · · · ·	i
7   249   00:03:26   56.25%   1.6171   7   259   00:03:35   18.75%   20.27%   2.5223   2.5823   7   251   00:03:36   31.25%   2.5206   7   252   00:03:36   31.25%   2.5306   7   253   00:03:36   50.00%   2.0092   7   254   00:03:37   43.75%   2.1599   7   255   00:03:38   25.00%   2.3768   2.1599   7   255   00:03:38   25.00%   2.3768   2.1101   2.2506			!		·	· ·	· · · · · · · · · · · · · · · · · · ·	<u> </u>
7   259   00:03:35   18.75%   20.27%   2.5223   2.5823   7   251   00:03:35   37.50%   2.4206   7   252   00:03:36   31.25%   2.5306   7   253   00:03:36   50.00%   2.0092   7   254   00:03:37   43.75%   2.1599   7   255   00:03:38   25.00%   2.1599   2.3768   7   255   00:03:38   25.00%   2.1768   2.3768   7   255   00:03:38   25.00%   2.1101   7   257   00:03:39   18.75%   2.5403   2.5403   7   258   00:03:39   12.50%   2.8805   7   259   00:03:40   25.00%   2.8211   7   260   00:03:41   18.75%   2.4602   2.1752   7   261   00:03:41   18.75%   2.4602   2.1752   7   261   00:03:41   18.75%   2.4602   2.7452   3.1783   7   264   00:03:42   25.00%   3.1783   3   2.7966   3.2796   3.2284   3.25%   3.2284   3.25%   3.2284   3.2284   3.2284   3.2284   3.2284   3.2284   3.2284   3.2284   3.2284   3.2284   3.2284   3.2284   3.2284   3.2284   3.2284   3.2286   3.2284   3.2286   3.2284   3.2286   3			· ·		•	!	· · · · · · · · · · · · · · · · · · ·	!
7		7	249	00:03:26	56.25%			l
7	1	7	250	00:03:35	18.75%	20.27%	2.5223	2.5823
7   252   09:03:36   31.25%   2.5306   7   253   09:03:36   50.00%   2.0092   7   254   09:03:37   43.75%   2.1599   7   255   09:03:38   25.00%   2.3768   2.0092   7   255   09:03:38   25.00%   2.1101   1   1   1   1   1   1   1   1   1	•		· ·			i		i
7   253   09:03:36   59.00%   2.0092   7   254   09:03:37   43.75%   2.1599   7   255   09:03:38   25.00%   2.3768   7   256   09:03:38   25.00%   2.1101   7   257   09:03:38   25.00%   2.1101   7   257   09:03:39   18.75%   2.5403   7   258   09:03:39   12.50%   2.8805   7   259   09:03:40   25.00%   2.8211   7   260   09:03:41   18.75%   2.4602   7   261   09:03:41   31.25%   2.1572   2.4602   7   262   09:03:42   25.00%   2.7452   7   263   09:03:43   12.50%   3.1783   7   264   09:03:43   12.50%   3.1783   7   265   09:03:44   31.25%   2.500%   2.7452   7   266   09:03:45   18.75%   2.5431   2.5094   7   266   09:03:45   18.75%   2.5431   2.5698   2.5763   7   266   09:03:45   18.75%   2.5431   2.50%   2.5763   2.6984   7   266   09:03:46   12.50%   2.5763   2.5431   2.50%   2.5763   2.5431   2.50%   2.5763   2.5431   2.50%   2.5763   2.5431   2.50%   2.5763   2.5431   2.50%   2.5763   2.5431   2.50%   2.5763   2.5431   2.50%   2.5763   2.5431   2.50%   2.5763   2.5431   2.50%   2.5763   2.5431   2.50%   2.5763   2.5098   2.509			· ·		·	ł	· · · · · · · · · · · · · · · · · · ·	
7         254         00:03:37         43.75%         2.1599           7         255         00:03:38         25.00%         2.3768           7         256         00:03:39         18.75%         2.5403           7         258         00:03:39         18.75%         2.5403           7         258         00:03:40         25.00%         2.8211           7         260         00:03:41         18.75%         2.4602           7         261         00:03:41         18.75%         2.1572           7         262         00:03:43         12.50%         3.1783           7         263         00:03:43         12.50%         3.1783           7         264         00:03:43         18.75%         2.7196           7         265         00:03:44         31.25%         2.5431           7         266         00:03:45         18.75%         2.5431           7         266         00:03:45         18.75%         2.5431           7         266         00:03:47         25.00%         2.5763           7         269         00:03:47         25.00%         2.1241           7         269			· ·			!	· · · · · · · · · · · · · · · · · · ·	!
7	•		· ·	•	·		· · · · · · · · · · · · · · · · · · ·	
7		7	254	00:03:37	43.75%		2.1599	
7	į ·	7 İ	255 Ì	00:03:38	25.00%	ĺ	2.3768	İ
7						i	· · · · · · · · · · · · · · · · · · ·	i
7			· ·		·	!	· · · · · · · · · · · · · · · · · · ·	<u> </u>
7			· ·		·	!	· · · · · · · · · · · · · · · · · · ·	!
7         260         00:03:41         18.75%         2.4602           7         261         00:03:41         31.25%         2.1572           7         262         00:03:42         25.00%         2.7452           7         263         00:03:43         12.50%         3.1783           7         264         00:03:44         31.25%         2.6984           7         265         00:03:44         31.25%         2.6984           7         266         00:03:45         18.75%         2.5431           7         266         00:03:45         18.75%         2.5763           7         268         00:03:46         12.56%         2.6084           9         00:03:47         25.00%         2.8710           7         270         00:03:47         25.00%         2.1241           7         271         00:03:49         31.25%         2.1175           7         272         00:03:49         31.25%         2.3295           7         273         00:03:51         25.00%         2.3795           7         274         00:03:51         31.25%         2.3785           7         275         00:03:51<		7	258	00:03:39	12.50%		2.8805	l
7         260         00:03:41         18.75%         2.4602           7         261         00:03:41         31.25%         2.1572           7         262         00:03:42         25.00%         2.7452           7         263         00:03:43         12.50%         3.1783           7         264         00:03:44         31.25%         2.6984           7         265         00:03:44         31.25%         2.6984           7         266         00:03:45         18.75%         2.5431           7         266         00:03:45         18.75%         2.5763           7         268         00:03:46         12.56%         2.6084           9         00:03:47         25.00%         2.8710           7         270         00:03:47         25.00%         2.1241           7         271         00:03:49         31.25%         2.1175           7         272         00:03:49         31.25%         2.3295           7         273         00:03:51         25.00%         2.3795           7         274         00:03:51         31.25%         2.3785           7         275         00:03:51<	1	7	259	00:03:40	25.00%		2.8211	1
7         261         00:03:41         31.25%         2.1572           7         262         00:03:42         25.00%         2.7452           7         263         00:03:43         12.56%         3.1783           7         264         00:03:43         18.75%         2.7196           7         266         00:03:45         18.75%         2.5431           7         266         00:03:45         37.56%         2.5763           7         268         00:03:45         37.56%         2.5763           7         269         00:03:47         25.06%         2.8710           7         270         00:03:47         25.06%         2.1241           7         271         00:03:47         25.06%         2.1241           7         271         00:03:49         31.25%         2.5123           7         272         00:03:49         31.25%         2.5123           7         273         00:03:50         12.56%         2.3965           7         274         00:03:51         31.25%         2.3785           7         275         00:03:52         37.56%         2.3925           7         276	:	- 1	260 İ	90.03.41 j		i		i
7         262         00:03:42         25.00%         2.7452           7         263         00:03:43         12.56%         3.1783           7         264         00:03:43         18.75%         2.7196           7         265         00:03:44         31.25%         2.6984           7         266         00:03:45         18.75%         2.5431           7         267         00:03:45         37.56%         2.5763           7         268         00:03:46         12.50%         2.6084           7         269         00:03:47         25.00%         2.8710           7         270         00:03:47         25.00%         2.1241           7         271         00:03:48         37.50%         2.1175           7         272         00:03:48         37.50%         2.1175           7         273         00:03:50         12.50%         2.3279           7         273         00:03:50         12.50%         2.3279           7         274         00:03:51         31.25%         2.3785           7         275         00:03:51         31.25%         2.3785           7         276	•		· ·	:	·	· · · · · · · · · · · · · · · · · · ·		i
7         263         00:03:43         12.50%         3.1783           7         264         00:03:43         18.75%         2.7196           7         265         00:03:44         31.25%         2.6984           7         266         00:03:45         18.75%         2.5431           7         267         00:03:45         37.50%         2.5763           7         268         00:03:46         12.50%         2.6084           7         269         00:03:47         25.00%         2.8710           7         270         00:03:47         25.00%         2.1241           7         271         00:03:48         37.50%         2.1175           7         272         00:03:49         31.25%         2.5123           7         273         00:03:50         12.50%         2.3905           7         274         00:03:51         25.00%         2.3279           7         275         00:03:51         31.25%         2.3785           7         276         00:03:52         37.50%         2.0925           7         277         00:03:53         31.25%         2.3119           7         279			· ·	:	·	ļ	· · · · · · · · · · · · · · · · · · ·	!
7         264         00:03:44         31.25%         2.7196           7         265         00:03:44         31.25%         2.6984           7         266         00:03:45         18.75%         2.5431           7         267         00:03:45         37.50%         2.5763           7         268         00:03:46         12.50%         2.6084           7         269         00:03:47         25.00%         2.8710           7         270         00:03:47         25.00%         2.1241           7         271         00:03:48         37.50%         2.1175           7         272         00:03:48         37.50%         2.1175           7         273         00:03:50         12.56%         2.3925           7         274         00:03:51         25.00%         2.3279           7         274         00:03:51         25.00%         2.3279           7         274         00:03:52         37.56%         2.0925           7         275         00:03:53         31.25%         2.3119           7         276         00:03:53         31.25%         2.3119           7         277	·	7	262	00:03:42	25.00%		2.7452	l
7         264         00:03:44         31.25%         2.7196           7         265         00:03:44         31.25%         2.6984           7         266         00:03:45         18.75%         2.5431           7         267         00:03:45         37.50%         2.5763           7         268         00:03:46         12.50%         2.6084           7         269         00:03:47         25.00%         2.8710           7         270         00:03:47         25.00%         2.1241           7         271         00:03:48         37.50%         2.1175           7         272         00:03:48         37.50%         2.1175           7         273         00:03:50         12.56%         2.3925           7         274         00:03:51         25.00%         2.3279           7         274         00:03:51         25.00%         2.3279           7         274         00:03:52         37.56%         2.0925           7         275         00:03:53         31.25%         2.3119           7         276         00:03:53         31.25%         2.3119           7         277	1	7	263	00:03:43	12.50%		3.1783	1
7       265       00:03:44       31.25%       2.6984         7       266       00:03:45       18.75%       2.5431         7       267       00:03:45       18.75%       2.5763         7       268       00:03:46       12.50%       2.6084         7       269       00:03:47       25.00%       2.8710         7       270       00:03:47       25.00%       2.1241         7       271       00:03:48       37.50%       2.1175         7       272       00:03:49       31.25%       2.5123         7       273       00:03:50       12.50%       2.3905         7       274       00:03:51       31.25%       2.3785         7       275       00:03:51       31.25%       2.3785         7       276       00:03:52       37.50%       2.0925         7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       43.75%       2.2394         7       280       00:03:55       43.75%       2.5908         7       281       00:03:57 <td>•</td> <td></td> <td>· ·</td> <td></td> <td>·</td> <td>i</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>i</td>	•		· ·		·	i	· · · · · · · · · · · · · · · · · · ·	i
7       266       00:03:45       18.75%       2.5431         7       267       00:03:45       37.50%       2.5763         7       268       00:03:45       12.50%       2.6084         7       269       00:03:47       25.00%       2.8710         7       270       00:03:47       25.00%       2.1241         7       271       00:03:48       37.50%       2.1175         7       272       00:03:49       31.25%       2.5123         7       273       00:03:50       12.50%       2.3905         7       274       00:03:51       25.00%       2.3779         7       275       00:03:51       31.25%       2.3785         7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       278       00:03:54       25.00%       3.2284         7       278       00:03:54       43.75%       2.2394         7       280       00:03:55       43.75%       1.9949         7       281       00:03:56       18.75%       2.5908         7       282       00:03:57 <td></td> <td></td> <td></td> <td>:</td> <td></td> <td>· ·</td> <td></td> <td>i</td>				:		· ·		i
7       267       00:03:45       37.50%       2.5763         7       268       00:03:46       12.50%       2.6084         7       269       00:03:47       25.00%       2.1241         7       270       00:03:47       25.00%       2.1241         7       271       00:03:48       37.50%       2.1175         7       272       00:03:49       31.25%       2.5123         7       273       00:03:50       12.50%       2.3905         7       274       00:03:51       25.00%       2.3279         7       275       00:03:51       31.25%       2.3785         7       276       00:03:52       37.50%       2.0925         7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       43.75%       2.2394         7       281       00:03:55       43.75%       1.9949         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.698         7       284       00:03:59 <td></td> <td></td> <td>· ·</td> <td>:</td> <td></td> <td>!</td> <td></td> <td>!</td>			· ·	:		!		!
7       268       00:03:46       12.50%       2.6084         7       269       00:03:47       25.00%       2.8710         7       270       00:03:47       25.00%       2.1241         7       271       00:03:48       37.50%       2.1175         7       272       00:03:49       31.25%       2.5123         7       273       00:03:50       12.50%       2.3905         7       274       00:03:51       25.00%       2.3279         7       275       00:03:51       31.25%       2.3785         7       276       00:03:52       37.50%       2.0925         7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       25.00%       3.2284         7       280       00:03:55       43.75%       2.2394         7       281       00:03:55       43.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       25.00%       2.7172         7       284       00:03:59 <td></td> <td></td> <td>· ·</td> <td>:</td> <td>•</td> <td>ļ</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>Į.</td>			· ·	:	•	ļ	· · · · · · · · · · · · · · · · · · ·	Į.
7       269       00:03:47       25.00%       2.8710         7       270       00:03:47       25.00%       2.1241         7       271       00:03:48       37.50%       2.1175         7       272       00:03:49       31.25%       2.5123         7       273       00:03:50       12.50%       2.3905         7       274       00:03:51       25.00%       2.3279         7       275       00:03:51       31.25%       2.3785         7       276       00:03:52       37.50%       2.0925         7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       25.00%       3.2284         7       280       00:03:55       43.75%       2.2394         7       281       00:03:56       18.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.3684         7       284       00:03:58       18.75%       2.3684         7       284       00:03:59 <td>   </td> <td>7  </td> <td>267</td> <td>00:03:45</td> <td>37.50%  </td> <td></td> <td>2.5763</td> <td>l</td>		7	267	00:03:45	37.50%		2.5763	l
7       269       00:03:47       25.00%       2.8710         7       270       00:03:47       25.00%       2.1241         7       271       00:03:48       37.50%       2.1175         7       272       00:03:49       31.25%       2.5123         7       273       00:03:50       12.50%       2.3905         7       274       00:03:51       25.00%       2.3279         7       275       00:03:51       31.25%       2.3785         7       276       00:03:52       37.50%       2.0925         7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       43.75%       2.2394         7       280       00:03:55       43.75%       2.2394         7       281       00:03:56       18.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.3684         7       284       00:03:58       18.75%       2.3684         7       284       00:03:59 <td>1</td> <td>7  </td> <td>268</td> <td>00:03:46</td> <td>12.50%  </td> <td></td> <td>2.6084</td> <td>1</td>	1	7	268	00:03:46	12.50%		2.6084	1
7       270       00:03:47       25.00%       2.1241         7       271       00:03:48       37.50%       2.1175         7       272       00:03:49       31.25%       2.5123         7       273       00:03:50       12.50%       2.3905         7       274       00:03:51       25.00%       2.3279         7       275       00:03:51       31.25%       2.3785         7       276       00:03:52       37.50%       2.0925         7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       25.00%       3.2284         7       280       00:03:55       43.75%       2.2394         7       281       00:03:55       43.75%       1.9949         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.0360         7       284       00:03:59       18.75%       2.6566         7       286       00:03:59       18.75%       2.6566         7       286       00:03:59 <td>:</td> <td></td> <td>· ·</td> <td></td> <td>·</td> <td>i</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>i</td>	:		· ·		·	i	· · · · · · · · · · · · · · · · · · ·	i
7       271       00:03:48       37.50%       2.1175         7       272       00:03:49       31.25%       2.5123         7       273       00:03:50       12.50%       2.3905         7       274       00:03:51       25.00%       2.3279         7       275       00:03:51       31.25%       2.3785         7       276       00:03:52       37.50%       2.0925         7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       25.00%       3.2284         7       280       00:03:55       43.75%       2.2394         7       280       00:03:55       43.75%       2.5908         7       281       00:03:55       18.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.0360         7       284       00:03:58       18.75%       2.6893         7       285       00:03:59       18.75%       2.6696         7       286       00:03:59 <td></td> <td></td> <td></td> <td>:</td> <td></td> <td>· ·</td> <td>:</td> <td>i</td>				:		· ·	:	i
7       272       00:03:49       31.25%       2.5123         7       273       00:03:50       12.50%       2.3905         7       274       00:03:51       25.00%       2.3279         7       275       00:03:51       31.25%       2.3785         7       276       00:03:52       37.50%       2.0925         7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       43.75%       2.2394         7       280       00:03:55       43.75%       1.9949         7       281       00:03:56       18.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.0360         7       284       00:03:58       18.75%       2.3684         7       285       00:03:59       18.75%       2.3684         7       286       00:03:59       18.75%       2.6566         7       287       00:03:59       18.75%       2.6566         7       287       00:04:02 <td></td> <td></td> <td></td> <td>:</td> <td></td> <td>!</td> <td>· ·</td> <td>!</td>				:		!	· ·	!
7       273       00:03:50       12.50%       2.3905         7       274       00:03:51       25.00%       2.3279         7       275       00:03:51       31.25%       2.3785         7       276       00:03:52       37.50%       2.0925         7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       43.75%       2.2394         7       280       00:03:55       43.75%       1.9949         7       281       00:03:56       18.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.0360         7       284       00:03:58       18.75%       2.3684         7       285       00:03:59       18.75%       2.6893         7       286       00:03:59       18.75%       2.6566         7       287       00:03:59       18.75%       2.6566         8       288       00:04:01       18.75%       2.65615         8       289       00:04:02 </td <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>I</td> <td></td> <td>ļ</td>					•	I		ļ
7       273       00:03:50       12.50%       2.3905         7       274       00:03:51       25.00%       2.3279         7       275       00:03:51       31.25%       2.3785         7       276       00:03:52       37.50%       2.0925         7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       43.75%       2.2394         7       280       00:03:55       43.75%       1.9949         7       281       00:03:56       18.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.0360         7       284       00:03:58       18.75%       2.3684         7       285       00:03:59       18.75%       2.6893         7       286       00:03:59       18.75%       2.6566         7       287       00:03:59       18.75%       2.6566         8       288       00:04:01       18.75%       2.65615         8       289       00:04:02 </td <td>Ι.</td> <td>7  </td> <td>272</td> <td>00:03:49</td> <td>31.25%</td> <td></td> <td>2.5123</td> <td></td>	Ι.	7	272	00:03:49	31.25%		2.5123	
7       274       00:03:51       25.00%       2.3279         7       275       00:03:51       31.25%       2.3785         7       276       00:03:52       37.50%       2.0925         7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       43.75%       2.2394         7       280       00:03:55       43.75%       1.9949         7       281       00:03:56       18.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.0360         7       284       00:03:58       18.75%       2.3684         7       285       00:03:59       18.75%       2.6893         7       286       00:03:59       18.75%       2.6566         7       287       00:03:59       18.75%       2.6551         8       288       00:04:01       18.75%       2.6551         8       289       00:04:01       31.25%       2.0964         8       291       00:04:02 <td>1</td> <td>7  </td> <td>273 l</td> <td>00:03:50 l</td> <td>12.50%  </td> <td>ĺ</td> <td>2.3905 l</td> <td>1</td>	1	7	273 l	00:03:50 l	12.50%	ĺ	2.3905 l	1
7   275   00:03:51   31.25%   2.3785   2.0925   7   276   00:03:52   37.50%   2.0925   2.0925   7   277   00:03:53   31.25%   2.3119   7   278   00:03:54   25.00%   3.2284   7   279   00:03:54   43.75%   2.2394   7   280   00:03:55   43.75%   1.9949   7   281   00:03:56   18.75%   2.5908   7   282   00:03:57   25.00%   2.7172   7   283   00:03:57   25.00%   2.7172   7   283   00:03:58   18.75%   2.0360   7   284   00:03:58   18.75%   2.3684   7   285   00:03:59   31.25%   2.6893   7   286   00:03:59   31.25%   2.6566   7   287   00:03:59   31.25%   2.6566   2.5615   8   288   00:04:01   18.75%   2.5615   8   289   00:04:01   31.25%   2.0964   8   290   00:04:02   37.50%   1.9513   8   291   00:04:02   37.50%   1.9513   8   292   00:04:02   25.00%   2.7661						i		i
7       276       00:03:52       37.50%       2.0925         7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       43.75%       2.2394         7       280       00:03:55       43.75%       1.9949         7       281       00:03:56       18.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.0360         8       284       00:03:59       18.75%       2.3684         7       285       00:03:59       18.75%       2.6893         7       286       00:03:59       31.25%       2.6566         7       287       00:03:59       18.75%       2.5615         8       288       00:04:01       18.75%       2.6551         8       289       00:04:01       31.25%       2.0964         8       290       00:04:02       37.50%       2.0887         8       291       00:04:02       37.50%       2.7661			· ·		:	ł		
7       277       00:03:53       31.25%       2.3119         7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       43.75%       2.2394         7       280       00:03:55       43.75%       1.9949         7       281       00:03:56       18.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.0360         8       00:03:59       18.75%       2.6893         9       285       00:03:59       18.75%       2.6566         9       287       00:03:59       31.25%       2.6566         9       287       00:03:59       18.75%       2.65615         8       288       00:04:01       18.75%       2.6551         8       289       00:04:01       31.25%       2.0964         8       290       00:04:02       37.50%       2.0887         8       291       00:04:02       37.50%       2.7661	•					!		ļ
7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       43.75%       2.2394         7       280       00:03:55       43.75%       1.9949         7       281       00:03:56       18.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.0360         7       284       00:03:58       18.75%       2.3684         7       285       00:03:59       18.75%       2.6893         7       286       00:03:59       31.25%       2.6566         7       287       00:03:59       18.75%       2.5615         8       288       00:04:01       18.75%       2.6551         8       289       00:04:01       31.25%       2.0964         8       290       00:04:02       37.50%       2.0887         8       291       00:04:02       37.50%       1.9513         8       292       00:04:02       25.00%       2.7661					•	I		ļ
7       278       00:03:54       25.00%       3.2284         7       279       00:03:54       43.75%       2.2394         7       280       00:03:55       43.75%       1.9949         7       281       00:03:56       18.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.0360         7       284       00:03:58       18.75%       2.3684         7       285       00:03:59       18.75%       2.6893         7       286       00:03:59       31.25%       2.6566         7       287       00:03:59       18.75%       2.5615         8       288       00:04:01       18.75%       2.6551         8       289       00:04:01       31.25%       2.0964         8       290       00:04:02       37.50%       2.0887         8       291       00:04:02       37.50%       1.9513         8       292       00:04:02       25.00%       2.7661	-	7	277	00:03:53	31.25%		2.3119	
7       279       00:03:54       43.75%       2.2394         7       280       00:03:55       43.75%       1.9949         7       281       00:03:56       18.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.0360         7       284       00:03:58       18.75%       2.3684         7       285       00:03:59       18.75%       2.6893         7       286       00:03:59       31.25%       2.6566         7       287       00:03:59       18.75%       2.5615         8       288       00:04:01       18.75%       2.6551         8       289       00:04:01       31.25%       2.0964         8       290       00:04:02       37.50%       2.0887         8       291       00:04:02       37.50%       1.9513         8       292       00:04:02       25.00%       2.7661	1	7	278 l	00:03:54 l	25.00% l	ĺ	3.2284 l	1
7       280       00:03:55       43.75%       1.9949                 7       281       00:03:56       18.75%       2.5908                 7       282       00:03:57       25.00%       2.7172                 7       283       00:03:57       31.25%       2.0360                 7       284       00:03:58       18.75%       2.3684                 7       285       00:03:59       18.75%       2.6893                 7       286       00:03:59       31.25%       2.6566                 7       287       00:03:59       18.75%       2.5615                 8       288       00:04:01       18.75%       2.6551                 8       289       00:04:01       31.25%       2.0964                 8       290       00:04:02       37.50%       2.0887                 8       291       00:04:02       37.50%       1.9513                 8       292       00:04:02       25.00%       2.7661					·	i		i
7       281       00:03:56       18.75%       2.5908         7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.0360         7       284       00:03:58       18.75%       2.3684         7       285       00:03:59       18.75%       2.6893         7       286       00:03:59       31.25%       2.6566         7       287       00:03:59       18.75%       2.5615         8       288       00:04:01       18.75%       2.6551         8       289       00:04:01       31.25%       2.0964         8       290       00:04:02       37.50%       2.0887         8       291       00:04:02       37.50%       1.9513         8       292       00:04:02       25.00%       2.7661					:	ļ		 
7       282       00:03:57       25.00%       2.7172         7       283       00:03:57       31.25%       2.0360         7       284       00:03:58       18.75%       2.3684         7       285       00:03:59       18.75%       2.6893         7       286       00:03:59       31.25%       2.6566         7       287       00:03:59       18.75%       2.5615         8       288       00:04:01       18.75%       2.6565         8       289       00:04:01       31.25%       2.0964         8       290       00:04:02       37.50%       2.0887         8       291       00:04:02       37.50%       1.9513         8       292       00:04:02       25.00%       2.7661						ļ		ļ
7       283       00:03:57       31.25%       2.0360         7       284       00:03:58       18.75%       2.3684         7       285       00:03:59       18.75%       2.6893         7       286       00:03:59       31.25%       2.6566         7       287       00:03:59       18.75%       2.5615         8       288       00:04:01       18.75%       2.6551         8       289       00:04:01       31.25%       2.0964         8       290       00:04:02       37.50%       2.0887         8       291       00:04:02       37.50%       1.9513         8       292       00:04:02       25.00%       2.7661				00:03:56	18.75%		2.5908	
7       283       00:03:57       31.25%       2.0360         7       284       00:03:58       18.75%       2.3684         7       285       00:03:59       18.75%       2.6893         7       286       00:03:59       31.25%       2.6566         7       287       00:03:59       18.75%       2.5615         8       288       00:04:01       18.75%       2.6551         8       289       00:04:01       31.25%       2.0964         8       290       00:04:02       37.50%       2.0887         8       291       00:04:02       37.50%       1.9513         8       292       00:04:02       25.00%       2.7661	1	7	282	00:03:57	25.00%		2.7172	1
7       284       00:03:58       18.75%       2.3684         7       285       00:03:59       18.75%       2.6893         7       286       00:03:59       31.25%       2.6566         7       287       00:03:59       18.75%       2.5615         8       288       00:04:01       18.75%       2.6551         8       289       00:04:01       31.25%       2.0964         8       290       00:04:02       37.50%       2.0887         8       291       00:04:02       37.50%       1.9513         8       292       00:04:02       25.00%       2.7661				00:03:57 İ	•	i	· · · · · · · · · · · · · · · · · · ·	i
7     285     00:03:59     18.75%     2.6893       7     286     00:03:59     31.25%     2.6566       7     287     00:03:59     18.75%     2.5615       8     288     00:04:01     18.75%     2.6551       8     289     00:04:01     31.25%     2.0964       8     290     00:04:02     37.50%     2.0887       8     291     00:04:02     37.50%     1.9513       8     292     00:04:02     25.00%     2.7661			· ·			-	· · · · · · · · · · · · · · · · · · ·	 
7     286     00:03:59     31.25%     2.6566       7     287     00:03:59     18.75%     2.5615       8     288     00:04:01     18.75%     2.6551       8     289     00:04:01     31.25%     2.0964       8     290     00:04:02     37.50%     2.0887       8     291     00:04:02     37.50%     1.9513       8     292     00:04:02     25.00%     2.7661					:	ļ		ļ
7     287     00:03:59     18.75%     2.5615       8     288     00:04:01     18.75%     2.6551       8     289     00:04:01     31.25%     2.0964       8     290     00:04:02     37.50%     2.0887       8     291     00:04:02     37.50%     1.9513       8     292     00:04:02     25.00%     2.7661								
7     287     00:03:59     18.75%     2.5615       8     288     00:04:01     18.75%     2.6551       8     289     00:04:01     31.25%     2.0964       8     290     00:04:02     37.50%     2.0887       8     291     00:04:02     37.50%     1.9513       8     292     00:04:02     25.00%     2.7661	1 '	7	286	00:03:59	31.25%		2.6566	
8       288       00:04:01       18.75%       2.6551               8       289       00:04:01       31.25%       2.0964               8       290       00:04:02       37.50%       2.0887               8       291       00:04:02       37.50%       1.9513               8       292       00:04:02       25.00%       2.7661				:		i		j
8   289   00:04:01   31.25%       2.0964         8   290   00:04:02   37.50%       2.0887         8   291   00:04:02   37.50%       1.9513         8   292   00:04:02   25.00%       2.7661	:		· ·	:				
8       290       00:04:02       37.50%       2.0887         8       291       00:04:02       37.50%       1.9513         8       292       00:04:02       25.00%       2.7661			· ·	:		!		ļ
8   291   00:04:02   37.50%   1.9513			· ·	:	:			ļ
8       291       00:04:02       37.50%       1.9513         8       292       00:04:02       25.00%       2.7661		8	290	00:04:02	37.50%		2.0887	
8 292 00:04:02 25.00% 2.7661			291 Ì	00:04:02 İ		j		j
				:	:	i		i
0   293   00:04:03   43./5%     2.2002				:		I I	•	l I
	1	υļ	273	00.44.03	43./3//	I	2.2002	I

	8	294	00:04:04	37.50%		2.0796	
	8	295	00:04:04	18.75%		2.6066	
İ	8	296 İ	00:04:05	50.00%	į	2.1270	j
i	8	297	00:04:05	37.50%	i	2.3168	i
i	8	298	00:04:06	31.25%	i	1.9402	i
-	:	299	!		<u> </u>		
-	8		00:04:07	12.50%	24 770/	2.3028	2 4000
!	8	300	00:04:14	12.50%	24.77%	2.5256	2.4888
ļ	8	301	00:04:15	25.00%	ļ	2.7654	ļ
	8	302	00:04:15	25.00%		2.7772	
	8	303	00:04:16	12.50%		2.8728	
ĺ	8	304	00:04:16	37.50%	ĺ	2.3947	j
i	8	305	00:04:17	50.00%	j	2.2462	i
i	8	306	00:04:18	12.50%	i	2.7652	i
i	8	307	00:04:19	12.50%	i	2.6604	i
H	8	308	00:04:19	37.50%	i	2.0020	
-	:		!		ļ		
- !	8	309	00:04:20	12.50%	ļ	2.7709	
ļ	8	310	00:04:21	31.25%	!	1.9089	ļ
	8	311	00:04:21	18.75%	ļ	2.1786	
	8	312	00:04:22	18.75%		2.2742	
	8	313	00:04:23	25.00%	[	1.9433	
į	8	314	00:04:24	31.25%	j	2.5197	j
i	8	315	00:04:24	25.00%	i	2.2407	i
¦	8	316	00:04:25	50.00%	i	1.6930	İ
I	8	317	00:04:25	43.75%	 	1.8997	 
-		•	!		l i		l I
-	8	318	00:04:26	37.50%	ļ	2.2902	
!	8	319	00:04:27	31.25%	!	2.2240	
ļ	8	320	00:04:28	37.50%	ļ	2.3261	ļ
	8	321	00:04:29	18.75%		1.9896	
	8	322	00:04:30	12.50%		2.3574	
ĺ	8	323	00:04:31	12.50%	İ	2.9474	j
i	8	324	00:04:32	18.75%	i	2.6500	i
i	8	325	00:04:32	37.50%	i	2.0824	i
i	8	326	00:04:33	18.75%	i	2.9923	
-	:	•					
- !	8	327	00:04:34	25.00%	!	2.7510	ļ
- !	8	328	00:04:34	31.25%	ļ	2.1661	ļ
ļ	9	329	00:04:35	18.75%	!	2.5426	ļ
	9	330	00:04:36	25.00%		2.6303	
	9	331	00:04:36	31.25%		2.3178	
	9	332	00:04:37	37.50%		1.9899	
İ	9 j	333 İ	00:04:37	37.50%	į	2.0702	j
i	9	334	00:04:38	56.25%	i	1.9310	i
i	9	335	00:04:39	43.75%	i	1.8293	i
i	9	336	00:04:39	31.25%	i	2.3722	i
-	:	•	:		<u> </u>		
-	9	337	00:04:40	31.25%	ļ	1.9462	ļ I
-	9	338	00:04:40	25.00%	ļ	2.0489	ļ
ļ	9	339	00:04:41	25.00%	ļ.	2.6699	ļ
	9	340	00:04:41	25.00%	Į	2.5429	ļ
	9	341	00:04:42	25.00%		2.1002	
	9	342	00:04:42	25.00%		2.3102	
İ	9	343	00:04:43	31.25%	į	1.9523	j
į	9	344	00:04:43	43.75%	j	1.9582	j
i	9	345	00:04:44	25.00%	i	2.1161	i
i	9	346	00:04:45	43.75%	i	2.0264	İ
H	9	347	00:04:45	43.75%	i i	2.1787	 
- [	:	:	:	:	 		[ 
ļ	9	348	00:04:46	18.75%	ļ	2.3309	ļ
ļ	9	349	00:04:46	37.50%		1.9345	!
	9	350	00:04:54	18.75%	21.62%	2.5736	2.4627
	9	351	00:04:55	43.75%		2.3692	
	9	352	00:04:55	31.25%	1	2.5594	1
į	9	353	00:04:56	43.75%	į	1.5937	į
i	9	354	00:04:57	6.25%	i	2.9973	i
i	9	355	00:04:57	37.50%	! 	2.2879	!
I			:		!		<u> </u>
- 1	9	356   357	00:04:58   00:04:59	50.00%   31.25%	ļ	2.0624   1.8611	ļ
- 1	9						

0.00 0.00 0.00 0.00 0.00

١	9	358	00:04:59	31.25%	1	2.3746	1
i	9 j	359	00:05:00	37.50%	į	2.2396	į
i	9	360	00:05:01	18.75%	į	2.2699	į
i	9	361	00:05:01	25.00%	i	2.8810	i
i	9	362	00:05:02	18.75%	i	2.3105	i
i	9	363	00:05:03	31.25%	i	2.2855	i
i	9	364	00:05:04	50.00%	i	1.7230	i
i	9	365	00:05:05	18.75%	i	2.3913	i
i	9	366	00:05:05	25.00%	ł	2.1954	
i	9	367	00:05:06	31.25%	ł	2.4321	
ŀ	9	368	00:05:07	31.25%	ł	2.2437	-
i	9	369	00:05:07	25.00%	ł	2.3558	
	:	370	:	· ·	ļ		
ļ	10		00:05:08	37.50%	ļ	1.8643	
ļ	10	371	00:05:09	37.50%	ļ	2.2061	
ļ	10	372	00:05:10	25.00%	ļ	2.0121	
ļ	10	373	00:05:10	25.00%	!	2.2557	l
-	10	374	00:05:11	31.25%	!	2.1419	l l
- !	10	375	00:05:11	25.00%	ļ	2.5449	!
ļ	10	376	00:05:12	25.00%	!	1.9809	ļ.
ļ	10	377	00:05:12	25.00%	ļ	2.3585	
ļ	10	378	00:05:13	37.50%	ļ	2.0785	ļ.
ļ	10	379	00:05:13	37.50%	ļ	1.9262	ļ
	10	380	00:05:14	31.25%	ļ	2.2042	l
	10	381	00:05:15	12.50%		2.7835	
	10	382	00:05:16	43.75%	Į	1.8940	ļ
	10	383	00:05:17	25.00%		2.3911	
	10	384	00:05:18	68.75%	1	1.4522	
	10	385	00:05:19	25.00%	1	2.2884	I
	10	386	00:05:21	37.50%	1	2.0696	
ĺ	10	387	00:05:22	43.75%	İ	1.7781	İ
İ	10	388	00:05:22	25.00%	İ	2.0725	į
İ	10	389	00:05:23	31.25%	į	2.1697	į
i	10	390	00:05:24	43.75%	į	1.9747	j
i	10 İ	391	00:05:24	18.75%	į	2.1955	j
i	10	392	00:05:25	18.75%	į	2.6035	j
i	10	393	00:05:26	56.25%	į	1.8835	j
i	10 İ	394	00:05:26	37.50%	į	2.2143	j
i	10 İ	395	00:05:27	31.25%	į	2.1565	i
i	10 İ	396	00:05:28	31.25%	į	2.0359	i
i	10	397	00:05:29	56.25%	i	1.7574	i
i	10	398	00:05:29	37.50%	i	2.2262	i
i	10	399	00:05:30	25.00%	i	2.3638	i
i	10	400	00:05:36	43.75%	28.38%	1.9256	2.3819
i	10	401	00:05:37	62.50%		1.6083	
-	10	402	00:05:37	18.75%	i	2.3661	
i	10	403	00:05:38	43.75%	i	1.7355	i
-	10	404	00:05:38	12.50%	i	2.2370	
-	10	405	00:05:39	25.00%	i	2.5581	
1	10	406	00:05:39	37.50%	 	2.1619	
-	10	407	00:05:40	56.25%		1.7676	
ļ	10	408	00:05:40	6.25%		2.6219	 
i	10	409	00:05:41	43.75%	ł	1.6557	
i	10	410	00:05:41		ł		
	•		:	43.75%	ļ	1.7245	
ļ	11	411	00:05:42	56.25%	ļ	1.4848	
ļ	11	412	00:05:43	62.50%	ļ	1.5748	
ļ	11	413	00:05:44	50.00%		1.6723	ļ
ļ	11	414	00:05:44	31.25%	ļ	2.2112	ļ
ļ	11	415	00:05:45	37.50%	ļ.	2.0736	ļ
ļ	11	416	00:05:46	50.00%	!	1.4258	
ļ	11	417	00:05:46	31.25%	ļ.	2.3914	ļ
ļ	11	418	00:05:47	50.00%	ļ	1.6383	ļ
- 1							
. !	11	419	00:05:48	37.50%	ļ	1.6225	ļ.
ļ	11   11   11	419   420   421		37.50%   31.25%   25.00%		1.6225   2.1818   2.2248	ļ

0.00 0.00 0.00 0.00 0.00 0.00

0.00

0.00 0.00 0.00 0.00 0.00

0.00 0.00 0.00 0.00 0.00

0.00 0.00 0.00 0.00 0.00

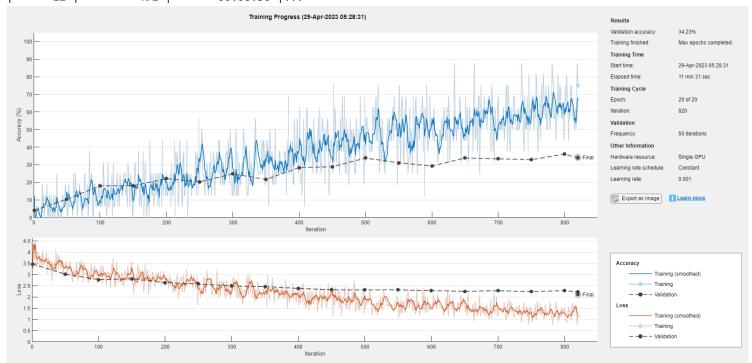
11	422	00:05:49	56.25%	I	1.7561	1	
11	423	00:05:50	37.50%	i	1.6871	i	
11	424	00:05:51	•	¦	· ·		
	!		31.25%	!	2.1452		
11	425	00:05:51	43.75%	!	1.8382	ļ	
11	426	00:05:52	25.00%	ļ	2.1124	ļ	
11	427	00:05:53	25.00%		2.4047	ļ	
11	428	00:05:54	43.75%		1.8948		
11	429	00:05:55	56.25%		1.3457		
11	430	00:05:56	31.25%		1.9858		
11	431	00:05:57	62.50%	ĺ	1.6822	į	
11	432	00:05:58	31.25%	į	2.2227	į	
11	433	00:05:59	25.00%	i	2.4203	i	
11	434	00:06:00	31.25%	i	2.2549	i	
11	435	00:06:01	56.25%	¦	1.5203		
11	436	00:06:02	50.00%	¦	1.6736		
•		: :	•	 	: :	-	
11	437	00:06:03	50.00%	!	2.1566	ļ	
11	438	00:06:03	43.75%	ļ	1.8693	ļ	
11	439	00:06:04	18.75%	!	2.4012	ļ	
11	440	00:06:05	50.00%	ļ	1.8141	ļ	
11	441	00:06:06	37.50%	ļ	2.0221		
11	442	00:06:06	50.00%		1.5516		
11	443	00:06:07	56.25%		1.5374		
11	444	00:06:08	43.75%		1.9575		
11	445	00:06:10	12.50%	j	2.5912	į	
j 11	446	00:06:11	31.25%	į	2.0321	i	
11	447	00:06:13	31.25%	i	2.1146	i	
11	448	00:06:14	43.75%	i	1.9354	i	
11	449	00:06:14	43.75%	i	2.1668		
11	450	00:06:24	31.25%	28.83%	2.4506	2.3175	
•		:		20.03%	!	2,31/3	
11	451	00:06:24	25.00%	!	2.4436	ļ	
12	452	00:06:26	75.00%	!	1.1281	ļ	
12	453	00:06:27	31.25%	!	2.3992	ļ	
12	454	00:06:27	62.50%	ļ	1.6173	ļ	
12	455	00:06:28	56.25%	ļ	1.6875		
12	456	00:06:28	31.25%		2.4460		
12	457	00:06:29	43.75%		1.8408		
12	458	00:06:30	37.50%		1.8750		
12	459	00:06:30	43.75%		1.8354		
12	460	00:06:31	31.25%	ĺ	2.2917	į	
12	461	00:06:31	25.00%	j	2.2063	į	
j 12	462	00:06:32	56.25%	į	1.5018	i	
12	463	00:06:32	43.75%	į	1.6655	i	
12	464	00:06:33	37.50%	i	2.2089	i	
12	465	00:06:34	68.75%	i	1.1801	i	
12	466	00:06:34	50.00%	i	1.7137	i	
12	467	00:06:35	37.50%	¦	1.9763		
12	468	00:06:35	68.75%	¦	1.9211		
	469	: :	:	¦			
12	!	00:06:36	31.25%		2.0788	l I	
12	470	00:06:37	25.00%	!	2.4559	ļ	
12	471	00:06:37	56.25%	!	1.5718	ļ	
12	472	00:06:38	25.00%	!	1.7880	ļ	
12	473	00:06:39	50.00%	!	1.4620	ļ	
12	474	00:06:39	43.75%	ļ	1.7576		
12	475	00:06:40	18.75%		2.4327		
12	476	00:06:40	43.75%	I	2.0271		
12	477	00:06:41	56.25%		1.4337		
12	478	00:06:42	31.25%	İ	1.9392	j	
12	479	00:06:42	50.00%	į	1.6422	i	
12	480	00:06:43	43.75%	i	1.7500	i	
12	481	00:06:44	37.50%	i	2.2057	i	
12	482	00:06:44	50.00%	ļ	1.7163	ł	
12	483	00:06:45	43.75%	 	1.9231	l l	
12	484	: :	:	ļ		I I	
•		00:06:46	25.00%	 	2.7467	I I	
12	485	00:06:46	25.00%	l	2.2663		

0.00

0.00

0.00

```
12 l
             486 l
                          00:06:47
                                            56.25%
                                                                            1.3380
                                                                                                               0.0
12
             487
                          00:06:47
                                            43.75%
                                                                            1.6283
                                                                                                               0.0
12
             488
                          00:06:48
                                            43.75%
                                                                            2.0411
                                                                                                               0.0
12
             489
                          00:06:48
                                            37.50%
                                                                            2.0368
                                                                                                               0.0
12
             490
                          00:06:49
                                            50.00%
                                                                            1.3982
                                                                                                               0.0
12
             491
                          00:06:49
                                            31.25%
                                                                            1.9342
                                                                                                               0.0
12 |
             492
                          00:06:50 | ...
```



```
target_predictions = classify(myCNN, test_image_datastore_resized);
target_test = testImageDS.Labels;

% Calculate overall accuracy
overall_accuracy = sum(target_predictions == target_test)/numel(target_test) % Output on command overall_accuracy = 0.3919

% Show confusion matrix in figure
[matrix, order] = confusionmat(target_test, target_predictions);
```

figure(2);

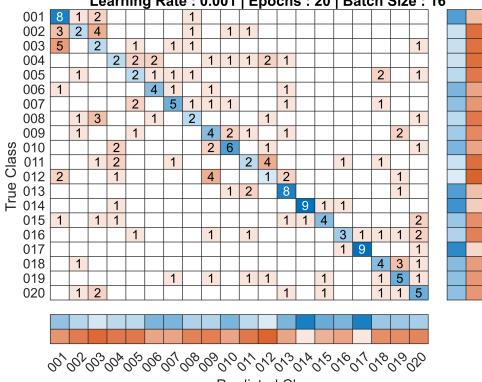
'RowSummary', 'row-normalized');

title({"Resnet50: Overall Accuracy " + string(round(overall\_accuracy\*100, 1)) + "%" + ...

"Learning Rate : " + learning\_rate + " | Epochs : " + epochs + " | Batch Size : " + batch\_s

" | Image Size : " + target\_size(1) + " x " + target\_size(1); ...

Resnet50: Overall Accuracy 39.2% | Image Size : 224 x 224 Learning Rate: 0.001 | Epochs: 20 | Batch Size: 16



**Predicted Class** 

```
class_wise_correct_recognition_rates = zeros(height(order), 1);
samples_per_row = sum(matrix, 2);
for i = 1:height(order)
    class_wise_correct_recognition_rates(i) = round(100 * matrix(i, i) / samples_per_row(i), 1
end
class_name_labels = table2array(classNames(:,2));
class_wise_recognition_rates = table(class_name_labels, ...
    class_wise_correct_recognition_rates, ...
    'VariableNames',["Class Name", "Correct Recognition Rate (%)"]);
disp("Class Weighted Average Overall Accuracy is " + string(round(overall_accuracy*100, 2)) +
```

Class Weighted Average Overall Accuracy is 39.19%

```
disp(class_wise_recognition_rates);
```

Class Name		Correct Recognition Rate (%)
{'001.Black_footed_Albatross' {'002.Laysan_Albatross' {'003.Sooty_Albatross' {'004.Groove_billed_Ani' {'005.Crested_Auklet' {'006.Least_Auklet' {'007.Parakeet Auklet'	- } } } }	66.7 16.7 18.2 16.7 22.2 50
{'008.Rhinoceros_Auklet'	}	22.2

{'009.Brewer_Blackbird'	}	33.3
{'010.Red_winged_Blackbird'	}	50
{'011.Rusty_Blackbird'	}	16.7
{'012.Yellow_headed_Blackbir	d'}	9.1
{'013.Bobolink'	}	66.7
{'014.Indigo_Bunting'	}	75
{'015.Lazuli_Bunting'	}	36.4
<pre>{'016.Painted_Bunting'</pre>	}	27.3
{'017.Cardinal'	}	81.8
{'018.Spotted_Catbird'	}	44.4
{'019.Gray_Catbird'	}	41.7
{'020.Yellow_breasted_Chat'	}	41.7