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## ▼ Python Tutorial and Homework 2

This Colab Notebook contains 2 sections. The first section is a Python Tutorial intended to make you familiar with Numpy and Colab functionalities. **This section will not be graded.**

The second section is a coding assignment (Homework 2). **This section will be graded**

### ▼ 1.0 Python Tutorial

This assignment section won't be graded but is intended as a tutorial to refresh the basics of python and its dependencies. It also allows one to get familiarized with Google Colab.

#### ▼ 1.0.0 Array manipulation using numpy

##### ▶ Q1 - Matrix multiplication

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##### ▶ Q2 - Diagonals

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##### ▶ Q3 - Sin wave

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##### ▶ Q4 Car Brands

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#### ▼ 1.0.1 Basics tensorflow

## ▼ Helper functions

```
import tensorflow as tf
from keras.utils import to_categorical

def plot_image(i, predictions_array, true_label, img):
    true_label, img = true_label[i], img[i]
    plt.grid(False)
    plt.xticks([])
    plt.yticks([])

    plt.imshow(img, cmap=plt.cm.binary)

    predicted_label = np.argmax(predictions_array)
    if predicted_label == true_label:
        color = 'blue'
    else:
        color = 'red'

def plot_value_array(i, predictions_array, true_label):
    true_label = true_label[i]
    # print(true_label)
    plt.grid(False)
    plt.xticks(range(10))
    plt.yticks([])
    thisplot = plt.bar(range(10), predictions_array, color="#777777")
    plt.ylim([0, 1])
    predicted_label = np.argmax(predictions_array)

    thisplot[predicted_label].set_color('red')
    thisplot[true_label].set_color('blue')
```

## ▼ Q1 MNIST Classifier

```
## Import the MNIST dataset from keras
mnist = tf.keras.datasets.mnist
### Load the data
(x_train, y_train), (x_test, y_test) = mnist.load_data()

# ### Normalize the 8bit images with values in the range [0,255]
def normalize_img(image):
    return tf.cast(image,tf.float32) / 255.

normalize_img(x_train)
# normalize_img(x_test)
normalize_img(y_train)
```

```
# normalize_img(y_test)
```

```
Downloading data from https://storage.googleapis.com/tensorflow/tf-keras-datasets/mnist11490434/11490434 [=====] - 3s 0us/step
<tf.Tensor: shape=(60000,), dtype=float32, numpy=
array([0.01960784, 0.          , 0.01568628, ..., 0.01960784, 0.02352941,
        0.03137255], dtype=float32)>
```

```
## Create a model with the following architecture Flatten -> Dense(128, relu) -> Dense(64,relu)
model = tf.keras.models.Sequential([
    tf.keras.layers.Flatten(input_shape=(28, 28)),
    tf.keras.layers.Dense(128, activation='relu'),
    tf.keras.layers.Dense(64, activation='relu'),
    tf.keras.layers.Dense(10)
])
### Compile the model with the adam optimizer and crossentropy loss
### HINT - No One hot encoding
loss_fn = tf.keras.losses.SparseCategoricalCrossentropy()

model.compile(loss=loss_fn, optimizer='adam')
```

```
### Train the model on the train data for 5 epochs
```

```
model.fit(x_train, y_train, epochs=5)
```

```
Epoch 1/5
1875/1875 [=====] - 14s 7ms/step - loss: 8.0575
Epoch 2/5
1875/1875 [=====] - 12s 7ms/step - loss: 2.3035
Epoch 3/5
1875/1875 [=====] - 13s 7ms/step - loss: 2.3035
Epoch 4/5
1875/1875 [=====] - 10s 5ms/step - loss: 2.3035
Epoch 5/5
1875/1875 [=====] - 9s 5ms/step - loss: 2.3035
<keras.callbacks.History at 0x7f9c8c07de80>
```

```
### Check the accuracy of the trained model
test_acc = model.evaluate(x_test, y_test)
print('\nTest accuracy:', test_acc)
```

```
313/313 [=====] - 1s 2ms/step - loss: 2.3041
```

```
Test accuracy: 2.304086446762085
```

```
import numpy as np
import tensorflow as tf
```

```

from keras.utils import to_categorical
import tensorflow_probability as tfp

import matplotlib.pyplot as plt

from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Dense, Flatten, Conv2D, MaxPooling2D, Dropout
from tensorflow.keras.losses import SparseCategoricalCrossentropy
from tensorflow.keras.optimizers import RMSprop

tfd = tfp.distributions
tfpl = tfp.layers

### Convert the above model to a probabilistic model with a softmax as the output layer

def get_probabilistic_model(input_shape, loss, optimizer, metrics):
    """
    This function should return the probabilistic model according to the
    above specification.
    The function takes input_shape, loss, optimizer and metrics as arguments,
    which should be used to define and compile the model.
    will return the compiled model.
    """
    model = Sequential([
        Conv2D(28, kernel_size=(3, 3), input_shape=input_shape),
        MaxPooling2D(pool_size=(2, 2)),
        Flatten(),
        Dense(128, activation=tf.nn.relu),
        Dense(tfpl.OneHotCategorical.params_size(28)),
        Dropout(0.2),
        Dense(10, activation=tf.keras.activations.softmax)
    ])

    model.compile(loss=loss, optimizer=optimizer, metrics=metrics)
    return model

loss_fn = tf.keras.losses.SparseCategoricalCrossentropy()

tf.random.set_seed(0)
probabilistic_model = get_probabilistic_model(
    input_shape=(28, 28, 1),
    loss=loss_fn,
    optimizer=RMSprop(),
    metrics=['accuracy']
)

# ### Run the test data through the new model and get predictions

probabilistic_model.fit(x=x_train,y=y_train, epochs=10)

```

```

predictions = probabilistic_model.predict(x_train, verbose=0)

### Plot a test output
i = 25  ### <---- Change this to some random number to see different predictions

print("compare predicted ",predictions[i].argmax(), ", to expected ",y_test[i])

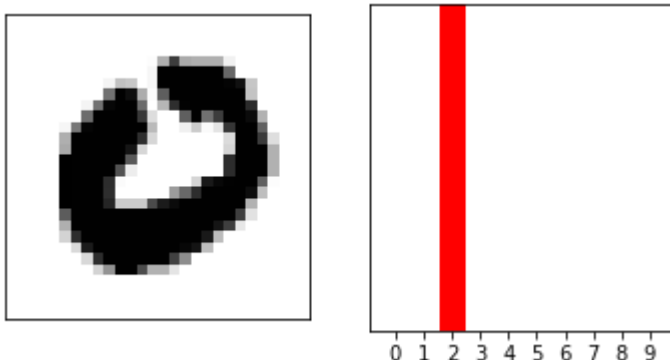
plt.figure(figsize=(6,3))
plt.subplot(1,2,1)
plot_image(i, predictions[i], y_test, x_test)
plt.subplot(1,2,2)
plot_value_array(i, predictions[i], y_test)
plt.show()
print(predictions[i].argmax())
### Blue bars mean correct guess red bar means wrong guess!!

```

```

Epoch 1/10
1875/1875 [=====] - 74s 39ms/step - loss: 1.1228 - accuracy: 0
Epoch 2/10
1875/1875 [=====] - 80s 43ms/step - loss: 0.1867 - accuracy: 0
Epoch 3/10
1875/1875 [=====] - 74s 40ms/step - loss: 0.1320 - accuracy: 0
Epoch 4/10
1875/1875 [=====] - 76s 41ms/step - loss: 0.1024 - accuracy: 0
Epoch 5/10
1875/1875 [=====] - 72s 38ms/step - loss: 0.0834 - accuracy: 0
Epoch 6/10
1875/1875 [=====] - 72s 38ms/step - loss: 0.0718 - accuracy: 0
Epoch 7/10
1875/1875 [=====] - 75s 40ms/step - loss: 0.0644 - accuracy: 0
Epoch 8/10
1875/1875 [=====] - 76s 41ms/step - loss: 0.0561 - accuracy: 0
Epoch 9/10
1875/1875 [=====] - 74s 39ms/step - loss: 0.0531 - accuracy: 0
Epoch 10/10
1875/1875 [=====] - 75s 40ms/step - loss: 0.0504 - accuracy: 0
compare predicted 2 , to expected 0

```



2

## ▼ 2.0 Homework 2

*Note : This section will be graded*

1. Program a Discrete CMAC and train it on a 1-D function (ref: Albus 1975, Fig. 5) Explore effect of overlap area on generalization and time to convergence. Use only 35 weights for your CMAC, and sample your function at 100 evenly spaced points. Use 70 for training and 30 for testing. Report the accuracy of your CMAC network using only the 30 test points.

```
import numpy as np
import matplotlib.pyplot as plt
import math
import time

'''CMAC Parent Class'''
class CMAC:
    def __init__(self, gen_factor, num_weights):
        self.gen_factor = gen_factor
        self.num_weights = num_weights
        self.weight_vec = np.ones(self.num_weights)
        self.association_map = {}

    def set_gen_factor(self, gen_factor):
        self.gen_factor = gen_factor

# Child Inherited class for Discrete CMAC
class DiscreteCMAC(CMAC):

    def __init__(self, gen_factor, num_weights):
        CMAC.__init__(self, gen_factor, num_weights)

    '''This will return the index (or the ith sample), in the association_input_vec values,
    corresponding the actual input value'''
    def get_assoc_vec_ind(self, input_val, num_of_assoc_vec, input_min, input_max):
        if input_val < input_min:
            return 1
        elif input_val > input_max:
            return num_of_assoc_vec-1
        else:
            proportion_ind = (num_of_assoc_vec-2) * ((input_val - input_min)/(input_max - input_min))
            return proportion_ind

    '''Association map in CMAC is an association unit matrix of size (m x n),
    where m = number of association input vectors (possible values of the sample input)
    n = number of weights
```

```

>> This function will return a map with:
    key = specific sample input value
    value = index of the first cell in the range of consecutive ones in that row
...
def process_association_map(self, data, input_min, input_max):
    num_of_assoc_vec = self.num_weights + 1 - self.gen_factor
    for ind, data_val in enumerate(data):
        assoc_vec_ind = self.get_assoc_vec_ind(data_val[0], num_of_assoc_vec, input_min,
        self.association_map[data_val[0]] = int(math.floor(assoc_vec_ind))

def train(self, data, input_min, input_max, total_epoch = 5000, learning_rate = 0.01):
    self.weight_vec = np.ones(self.num_weights)
    input_X = np.linspace(input_min, input_max, self.num_weights + 1 - self.gen_factor)
    alpha = learning_rate
    epoch = 0

    self.association_map = {}
    self.process_association_map(data, input_min, input_max)

    is_converged = False
    prev_error = 0
    new_error = 0
    start_time = time.time()
    while epoch <= total_epoch and not is_converged:
        prev_error = new_error
        for ind, data_val in enumerate(data):
            asc_wt_ind = self.association_map[data_val[0]]
            y_output = np.sum(self.weight_vec[asc_wt_ind: asc_wt_ind + self.gen_factor])
            error = data_val[1] - y_output
            correction = alpha*error/self.gen_factor
            self.weight_vec[asc_wt_ind: (asc_wt_ind + self.gen_factor)] = [(self.weight_\

            intermediate_output, accuracy = self.predict(data, input_min, input_max, False)
            new_error = 1 - accuracy
            if np.abs(prev_error - new_error) < 0.0000001:
                is_converged = True

        epoch = epoch + 1
        print("Discrete CMAC: ", " " => g "-", self.gen_factor, "epoch - ", epoch, " " => err

    end_time = time.time()
    process_time = end_time - start_time
    return process_time, np.copy(self.weight_vec)

def calculate_error(self, y_predict, y_expected):
    error = np.subtract(y_expected, y_predict)
    error_sq = np.power(error, 2)
    sum_error_sq = np.sum(error_sq)
    total_error = np.sqrt(sum_error_sq)/len(y_expected)

```

```

    return total_error

def predict(self, data, input_min, input_max, re_process_asso_map = True):
    output = []
    if re_process_asso_map:
        self.process_association_map(data, input_min, input_max)

    for ind, data_val in enumerate(data):
        asc_wt_ind = self.association_map[data_val[0]]
        y_output = np.sum(self.weight_vec[asc_wt_ind: asc_wt_ind + self.gen_factor])
        output.append(y_output)

    error = self.calculate_error(output, data[:, 1])
    accuracy = 1 - error
    return output, accuracy

#main

# 1D function: sin(x)
TWO_PI = 2*np.pi #create data
sample_input = np.linspace(0, TWO_PI, 100) #100 evenly spaced sample points
sample_output = np.sin(sample_input)

total_data = np.column_stack((sample_input, sample_output))
np.random.shuffle(total_data)

train_data = total_data[:70]
test_data = total_data[70:] #30 data points

x_train = train_data[:, 0]
x_test = test_data[:, 0]

y_train = train_data[:, 1]
y_test = test_data[:, 1]

num_weights = 35

gen_factor_list = range(1, num_weights)

convergence_time_discrete = []
accuracies_discrete = []

#create class Object
discrete_cmac = DiscreteCMAC(1, num_weights)

for gen_factor in gen_factor_list:
    discrete_cmac.set_gen_factor(gen_factor)
    process_time_discrete, weight_vec_discrete = discrete_cmac.train(train_data, 0, TWO_PI, 1)
    y_output_discrete, accuracy_discrete = discrete_cmac.predict(test_data, 0, TWO_PI)

    convergence_time_discrete.append(process_time_discrete)
    accuracies_discrete.append(accuracy_discrete)

```



```
fig, (ax1, ax2) = plt.subplots(1, 2)
plt.style.use('seaborn-whitegrid')

ax1.set_title('Convergence time v/s Generalization Factor')
ax1.plot(gen_factor_list, convergence_time_discrete, label="Discrete CMAC")
ax1.set(xlabel='generalization factor', ylabel='Convergence time')
ax1.legend()

ax2.set_title('Accuracy v/s Generalization Factor')
ax2.plot(gen_factor_list, accuracies_discrete, label="Discrete CMAC")
ax2.set(xlabel='generalization factor', ylabel='Accuracy')
ax2.legend()

plt.show()
```

**Streaming output truncated to the last 5000 lines.**

```

Discrete CMAC: => g - 27 epoch - 464 => error - 0.021765856516337223 accuracy -
Discrete CMAC: => g - 27 epoch - 465 => error - 0.021758439914125627 accuracy -
Discrete CMAC: => g - 27 epoch - 466 => error - 0.02175108042114693 accuracy -
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Discrete CMAC:	=> g - 27 epoch - 572	=> error - 0.021216082757656296	accuracy -
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Discrete CMAC: => g - 27 epoch - 856 => error - 0.020796038593413835 accuracy -
Discrete CMAC: => g - 27 epoch - 857 => error - 0.02079550972820199 accuracy -

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Discrete CMAC:	=> g - 27 epoch -	1121	=> error - 0.020722187145511106	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1122	=> error - 0.020722058138270216	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1123	=> error - 0.0207219297622262	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1124	=> error - 0.02072180201395213	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1125	=> error - 0.02072167489004173	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1126	=> error - 0.020721548387109268	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1127	=> error - 0.02072142250178932	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1128	=> error - 0.020721297230737235	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1129	=> error - 0.020721172570627888	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1130	=> error - 0.020721048518156593	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1131	=> error - 0.02072092507003831	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1132	=> error - 0.020720802223007984	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1133	=> error - 0.0207206799738201	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1134	=> error - 0.02072055831924846	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1135	=> error - 0.02072043725608641	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1136	=> error - 0.020720316781146386	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1137	=> error - 0.020720196891260145	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1138	=> error - 0.020720077583278096	accuracy -
Discrete CMAC:	=> g - 27 epoch -	1139	=> error - 0.020719958854069853	accuracy -

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Discrete CMAC: => g - 27 epoch - 1140 => error - 0.020719840700523573 accuracy -
Discrete CMAC: => g - 27 epoch - 1141 => error - 0.02071972311954584 accuracy -
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Discrete CMAC: => g - 27 epoch - 1144 => error - 0.020719373781368677 accuracy -
Discrete CMAC: => g - 27 epoch - 1145 => error - 0.02071925846010081 accuracy -
Discrete CMAC: => g - 27 epoch - 1146 => error - 0.020719143696209974 accuracy -
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Discrete CMAC: => g - 27 epoch - 1169 => error - 0.020716651317531753 accuracy -
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Discrete CMAC: => g - 27 epoch - 1173 => error - 0.020716245263379562 accuracy -
Discrete CMAC: => g - 27 epoch - 1174 => error - 0.02071614495662133 accuracy -
Discrete CMAC: => g - 27 epoch - 1175 => error - 0.02071604512749481 accuracy -
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Discrete CMAC: => g - 28 epoch - 2 => error - 0.903153324440478 accuracy - 9.68
Discrete CMAC: => g - 28 epoch - 3 => error - 0.47690434700071815 accuracy - 52
Discrete CMAC: => g - 28 epoch - 4 => error - 0.2627402987057088 accuracy - 73.
Discrete CMAC: => g - 28 epoch - 5 => error - 0.16184444835800882 accuracy - 83
Discrete CMAC: => g - 28 epoch - 6 => error - 0.12010549879118426 accuracy - 87
Discrete CMAC: => g - 28 epoch - 7 => error - 0.10495251479142853 accuracy - 89
Discrete CMAC: => g - 28 epoch - 8 => error - 0.09929621675618072 accuracy - 90
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Discrete CMAC: => g - 28 epoch - 13 => error - 0.09003810895417796 accuracy - 9
Discrete CMAC: => g - 28 epoch - 14 => error - 0.0886378590669753 accuracy - 91
Discrete CMAC: => g - 28 epoch - 15 => error - 0.08728607017712198 accuracy - 9
Discrete CMAC: => g - 28 epoch - 16 => error - 0.0859803791413829 accuracy - 91
Discrete CMAC: => g - 28 epoch - 17 => error - 0.08471901304799312 accuracy - 9
Discrete CMAC: => g - 28 epoch - 18 => error - 0.08350036694411067 accuracy - 9
Discrete CMAC: => g - 28 epoch - 19 => error - 0.08232290162287259 accuracy - 9
Discrete CMAC: => g - 28 epoch - 20 => error - 0.0811851220044999 accuracy - 91
Discrete CMAC: => g - 28 epoch - 21 => error - 0.08008557100871697 accuracy - 9

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Discrete CMAC: => g - 28 epoch - 24 => error - 0.07700240388744173 accuracy - 9
Discrete CMAC: => g - 28 epoch - 25 => error - 0.07604207468993018 accuracy - 9
Discrete CMAC: => g - 28 epoch - 26 => error - 0.0751133307041949 accuracy - 92
Discrete CMAC: => g - 28 epoch - 27 => error - 0.0742149655799389 accuracy - 92
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Discrete CMAC: => g - 28 epoch - 30 => error - 0.07169066902156729 accuracy - 9
Discrete CMAC: => g - 28 epoch - 31 => error - 0.07090253612534858 accuracy - 9
Discrete CMAC: => g - 28 epoch - 32 => error - 0.07013932891589791 accuracy - 9
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Discrete CMAC: => g - 28 epoch - 75 => error - 0.05120225020484037 accuracy - 9
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Discrete CMAC: => g - 28 epoch - 77 => error - 0.05068503154249071 accuracy - 9

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Discrete CMAC: => g - 28 epoch - 134 => error - 0.040480670004010204 accuracy -

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Discrete CMAC: => g - 28 epoch - 190 => error - 0.03490463776436559 accuracy -

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Discrete CMAC:	=> g - 28 epoch - 191	=> error - 0.03482884862557034	accuracy -
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Discrete CMAC:	=> g - 28 epoch - 755	=> error - 0.02599520282108887	accuracy -

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Discrete CMAC: => g - 28 epoch - 1011 => error - 0.025877188803532847 accuracy -
Discrete CMAC: => g - 28 epoch - 1012 => error - 0.025877014239347296 accuracy -
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Discrete CMAC: => g - 28 epoch - 1015 => error - 0.02587649729721553 accuracy -
Discrete CMAC: => g - 28 epoch - 1016 => error - 0.025876327208206318 accuracy -
Discrete CMAC: => g - 28 epoch - 1017 => error - 0.025876158219291234 accuracy -
Discrete CMAC: => g - 28 epoch - 1018 => error - 0.025875990323093956 accuracy -
Discrete CMAC: => g - 28 epoch - 1019 => error - 0.02587582351228912 accuracy -
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Discrete CMAC: => g - 28 epoch - 1023 => error - 0.025875166978256536 accuracy -
Discrete CMAC: => g - 28 epoch - 1024 => error - 0.02587500548629773 accuracy -
Discrete CMAC: => g - 28 epoch - 1025 => error - 0.025874845036832572 accuracy -
Discrete CMAC: => g - 28 epoch - 1026 => error - 0.02587468562288353 accuracy -
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Discrete CMAC: => g - 28 epoch - 1030 => error - 0.025874058184378268 accuracy -
Discrete CMAC: => g - 28 epoch - 1031 => error - 0.025873903845023083 accuracy -
Discrete CMAC: => g - 28 epoch - 1032 => error - 0.025873750500320147 accuracy -
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Discrete CMAC: => g - 28 epoch - 1034 => error - 0.025873446768329478 accuracy -
Discrete CMAC: => g - 28 epoch - 1035 => error - 0.02587329636788538 accuracy -
Discrete CMAC: => g - 28 epoch - 1036 => error - 0.025873146935780467 accuracy -
Discrete CMAC: => g - 28 epoch - 1037 => error - 0.025872998465549357 accuracy -

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Discrete CMAC:	=> g - 28 epoch -	epoch -	error -	accuracy -
Discrete CMAC:	=> g - 28 epoch -	1038	error - 0.02587285095077163	accuracy -
Discrete CMAC:	=> g - 28 epoch -	1039	error - 0.025872704385071166	accuracy -
Discrete CMAC:	=> g - 28 epoch -	1040	error - 0.025872558762115583	accuracy -
Discrete CMAC:	=> g - 28 epoch -	1041	error - 0.02587241407561658	accuracy -
Discrete CMAC:	=> g - 28 epoch -	1042	error - 0.025872270319328816	accuracy -
Discrete CMAC:	=> g - 28 epoch -	1043	error - 0.025872127487050145	accuracy -
Discrete CMAC:	=> g - 28 epoch -	1044	error - 0.02587198557262138	accuracy -
Discrete CMAC:	=> g - 28 epoch -	1045	error - 0.025871844569925417	accuracy -
Discrete CMAC:	=> g - 28 epoch -	1046	error - 0.02587170447288767	accuracy -
Discrete CMAC:	=> g - 28 epoch -	1047	error - 0.025871565275475294	accuracy -
Discrete CMAC:	=> g - 28 epoch -	1048	error - 0.025871426971696643	accuracy -
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Discrete CMAC:	=> g - 28 epoch -	1052	error - 0.025870882574532517	accuracy -
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Discrete CMAC:	=> g - 28 epoch -	1093	error - 0.025866038615080855	accuracy -

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Discrete CMAC: => g - 29 epoch - 1 => error - 1.777787186730735 accuracy - -77.
Discrete CMAC: => g - 29 epoch - 2 => error - 0.9173293481186868 accuracy - 8.2
Discrete CMAC: => g - 29 epoch - 3 => error - 0.47880696764221575 accuracy - 52
Discrete CMAC: => g - 29 epoch - 4 => error - 0.25978568190028384 accuracy - 74
Discrete CMAC: => g - 29 epoch - 5 => error - 0.15685342071237507 accuracy - 84
Discrete CMAC: => g - 29 epoch - 6 => error - 0.11441176789387941 accuracy - 88
Discrete CMAC: => g - 29 epoch - 7 => error - 0.09929232242547648 accuracy - 90
Discrete CMAC: => g - 29 epoch - 8 => error - 0.09390690605533103 accuracy - 90
Discrete CMAC: => g - 29 epoch - 9 => error - 0.09144681092995544 accuracy - 90
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Discrete CMAC: => g - 29 epoch - 51 => error - 0.05789771087241966 accuracy - 9

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Discrete CMAC:	=> g - 29 epoch -	63	=> error -	0.05356161466531484	accuracy - 9
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Discrete CMAC:	=> g - 29 epoch -	107	=> error -	0.04429569889001095	accuracy -

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Discrete CMAC: => g - 29 epoch - 164 => error - 0.038141548823885806 accuracy -

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Discrete CMAC:	=> g - 29 epoch -	728	=> error -	0.02849698238472853	accuracy -

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Discrete CMAC: => g - 29 epoch - 992 => error - 0.028376442130014 accuracy - 97
Discrete CMAC: => g - 29 epoch - 993 => error - 0.028376277303241326 accuracy -
Discrete CMAC: => g - 29 epoch - 994 => error - 0.028376113547954662 accuracy -
Discrete CMAC: => g - 29 epoch - 995 => error - 0.02837595085685496 accuracy -
Discrete CMAC: => g - 29 epoch - 996 => error - 0.028375789222695014 accuracy -
Discrete CMAC: => g - 29 epoch - 997 => error - 0.028375628638279027 accuracy -
Discrete CMAC: => g - 29 epoch - 998 => error - 0.028375469096461714 accuracy -
Discrete CMAC: => g - 29 epoch - 999 => error - 0.02837531059014864 accuracy -
Discrete CMAC: => g - 29 epoch - 1000 => error - 0.028375153112295548 accuracy - 9
Discrete CMAC: => g - 29 epoch - 1001 => error - 0.028374996655907925 accuracy -
Discrete CMAC: => g - 29 epoch - 1002 => error - 0.02837484121404077 accuracy -
Discrete CMAC: => g - 29 epoch - 1003 => error - 0.028374686779798042 accuracy -
Discrete CMAC: => g - 29 epoch - 1004 => error - 0.028374533346332553 accuracy -
Discrete CMAC: => g - 29 epoch - 1005 => error - 0.028374380906845298 accuracy -
Discrete CMAC: => g - 29 epoch - 1006 => error - 0.028374229454585564 accuracy -
Discrete CMAC: => g - 29 epoch - 1007 => error - 0.02837407898285005 accuracy -
Discrete CMAC: => g - 29 epoch - 1008 => error - 0.028373929484983074 accuracy -
Discrete CMAC: => g - 29 epoch - 1009 => error - 0.028373780954375483 accuracy -
Discrete CMAC: => g - 29 epoch - 1010 => error - 0.02837363338446519 accuracy -

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Discrete CMAC:	=> g - 29 epoch - 1011	=> error - 0.028373486768736078	accuracy -
Discrete CMAC:	=> g - 29 epoch - 1012	=> error - 0.02837334110071832	accuracy -
Discrete CMAC:	=> g - 29 epoch - 1013	=> error - 0.028373196373987386	accuracy -
Discrete CMAC:	=> g - 29 epoch - 1014	=> error - 0.02837305258216416	accuracy -
Discrete CMAC:	=> g - 29 epoch - 1015	=> error - 0.028372909718914485	accuracy -
Discrete CMAC:	=> g - 29 epoch - 1016	=> error - 0.02837276777948837	accuracy -
Discrete CMAC:	=> g - 29 epoch - 1017	=> error - 0.02837262675302199	accuracy -
Discrete CMAC:	=> g - 29 epoch - 1018	=> error - 0.02837248663793268	accuracy -
Discrete CMAC:	=> g - 29 epoch - 1019	=> error - 0.02837234742652328	accuracy -
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Discrete CMAC:	=> g - 29 epoch - 1021	=> error - 0.028372071690330403	accuracy -
Discrete CMAC:	=> g - 29 epoch - 1022	=> error - 0.02837193515344716	accuracy -
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Discrete CMAC:	=> g - 29 epoch - 1067	=> error - 0.02836661744867186	accuracy -

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Discrete CMAC: => g - 29 epoch - 1071 => error - 0.028366214721324723 accuracy -
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Discrete CMAC: => g - 30 epoch - 2 => error - 0.9313680877228183 accuracy - 6.8
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Discrete CMAC: => g - 30 epoch - 4 => error - 0.25825056925019685 accuracy - 74
Discrete CMAC: => g - 30 epoch - 5 => error - 0.15393624445425158 accuracy - 84
Discrete CMAC: => g - 30 epoch - 6 => error - 0.11115039478689037 accuracy - 88
Discrete CMAC: => g - 30 epoch - 7 => error - 0.0961328322092927 accuracy - 90.
Discrete CMAC: => g - 30 epoch - 8 => error - 0.09098433171794462 accuracy - 90
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Discrete CMAC: => g - 30 epoch - 51 => error - 0.06026155306453651 accuracy - 9
Discrete CMAC: => g - 30 epoch - 52 => error - 0.05987783868690444 accuracy - 9

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Discrete CMAC: => g - 30 epoch - 54 => error - 0.05913733467673532 accuracy - 9
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Discrete CMAC: => g - 30 epoch - 63 => error - 0.05620682283408773 accuracy - 9
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Discrete CMAC: => g - 30 epoch - 109 => error - 0.04773562979166324 accuracy -

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Discrete CMAC:	=> g - 30 epoch -	error -	accuracy -
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Discrete CMAC:	=> g - 30 epoch - 786	=> error - 0.03836547799956591	accuracy -

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Discrete CMAC: => g - 30 epoch - 843 => error - 0.038351324838817535 accuracy -

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Discrete CMAC: => g - 30 epoch - 899 => error - 0.03834192033277395 accuracy -

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Discrete CMAC: => g - 31 epoch - 9 => error - 0.08177086625052446 accuracy - 91

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Discrete CMAC: => g - 31 epoch - 62 => error - 0.05878925103000576 accuracy - 9
Discrete CMAC: => g - 31 epoch - 63 => error - 0.05855997356659248 accuracy - 9
Discrete CMAC: => g - 31 epoch - 64 => error - 0.058335661265553895 accuracy -
Discrete CMAC: => g - 31 epoch - 65 => error - 0.05811621038825332 accuracy - 9

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Discrete CMAC: => g - 31 epoch - 67 => error - 0.057691486690747196 accuracy -
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Discrete CMAC: => g - 31 epoch - 121 => error - 0.05110335925996168 accuracy -

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Discrete CMAC: => g - 31 epoch - 178 => error - 0.04886056346230738 accuracy -

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Discrete CMAC: => g - 31 epoch - 621 => error - 0.0471343785694045 accuracy - 9
Discrete CMAC: => g - 31 epoch - 622 => error - 0.047134201053462665 accuracy -
Discrete CMAC: => g - 31 epoch - 623 => error - 0.04713402522803456 accuracy -
Discrete CMAC: => g - 31 epoch - 624 => error - 0.04713385107640755 accuracy -
Discrete CMAC: => g - 31 epoch - 625 => error - 0.047133678582037764 accuracy -
Discrete CMAC: => g - 31 epoch - 626 => error - 0.04713350772854841 accuracy -
Discrete CMAC: => g - 31 epoch - 627 => error - 0.047133338499727895 accuracy -
Discrete CMAC: => g - 31 epoch - 628 => error - 0.04713317087952862 accuracy -
Discrete CMAC: => g - 31 epoch - 629 => error - 0.04713300485206451 accuracy -
Discrete CMAC: => g - 31 epoch - 630 => error - 0.04713284040151014 accuracy -

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Discrete CMAC: => g - 31 epoch - 630 => error - 0.04713264040101014 accuracy -
Discrete CMAC: => g - 31 epoch - 631 => error - 0.04713267751259864 accuracy -
Discrete CMAC: => g - 31 epoch - 632 => error - 0.04713251616962033 accuracy -
Discrete CMAC: => g - 31 epoch - 633 => error - 0.04713235635742086 accuracy -
Discrete CMAC: => g - 31 epoch - 634 => error - 0.04713219806089963 accuracy -
Discrete CMAC: => g - 31 epoch - 635 => error - 0.047132041265108615 accuracy -
Discrete CMAC: => g - 31 epoch - 636 => error - 0.04713188595525031 accuracy -
Discrete CMAC: => g - 31 epoch - 637 => error - 0.04713173211667643 accuracy -
Discrete CMAC: => g - 31 epoch - 638 => error - 0.047131579734886464 accuracy -
Discrete CMAC: => g - 31 epoch - 639 => error - 0.0471314287955259 accuracy - 9
Discrete CMAC: => g - 31 epoch - 640 => error - 0.0471312792843851 accuracy - 9
Discrete CMAC: => g - 31 epoch - 641 => error - 0.047131131187397424 accuracy -
Discrete CMAC: => g - 31 epoch - 642 => error - 0.04713098449063813 accuracy -
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Discrete CMAC: => g - 31 epoch - 644 => error - 0.047130695242804777 accuracy -
Discrete CMAC: => g - 31 epoch - 645 => error - 0.047130552664577 accuracy - 95
Discrete CMAC: => g - 31 epoch - 646 => error - 0.047130411432266595 accuracy -
Discrete CMAC: => g - 31 epoch - 647 => error - 0.04713027153263594 accuracy -
Discrete CMAC: => g - 31 epoch - 648 => error - 0.04713013295258084 accuracy -
Discrete CMAC: => g - 31 epoch - 649 => error - 0.04712999567912879 accuracy -
Discrete CMAC: => g - 31 epoch - 650 => error - 0.04712985969943784 accuracy -
Discrete CMAC: => g - 31 epoch - 651 => error - 0.047129725000795375 accuracy -
Discrete CMAC: => g - 31 epoch - 652 => error - 0.04712959157061647 accuracy -
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Discrete CMAC: => g - 31 epoch - 654 => error - 0.0471293284659422 accuracy - 9
Discrete CMAC: => g - 31 epoch - 655 => error - 0.047129198766905245 accuracy -
Discrete CMAC: => g - 31 epoch - 656 => error - 0.047129070287246 accuracy - 95
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Discrete CMAC: => g - 31 epoch - 658 => error - 0.047128816938322604 accuracy -
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Discrete CMAC: => g - 31 epoch - 660 => error - 0.04712856832489165 accuracy -
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Discrete CMAC: => g - 31 epoch - 662 => error - 0.04712832435455838 accuracy -
Discrete CMAC: => g - 31 epoch - 663 => error - 0.04712820408218599 accuracy -
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Discrete CMAC: => g - 31 epoch - 665 => error - 0.04712796690728904 accuracy -
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Discrete CMAC: => g - 31 epoch - 668 => error - 0.04712761940567889 accuracy -
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Discrete CMAC: => g - 31 epoch - 680 => error - 0.0471263232012038 accuracy - 9
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Discrete CMAC: => g - 31 epoch - 682 => error - 0.04712612096857283 accuracy -
Discrete CMAC: => g - 31 epoch - 683 => error - 0.04712602125962495 accuracy -
Discrete CMAC: => g - 32 epoch - 1 => error - 1.910041539148246 accuracy - -91.
Discrete CMAC: => g - 32 epoch - 2 => error - 0.9587384612979546 accuracy - 4.1
Discrete CMAC: => g - 32 epoch - 3 => error - 0.48579302136505353 accuracy - 51

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Discrete CMAC: => g - 32 epoch - 4 => error - 0.25465217820324726 accuracy - 74
Discrete CMAC: => g - 32 epoch - 5 => error - 0.14790308753047332 accuracy - 85
Discrete CMAC: => g - 32 epoch - 6 => error - 0.10488726192753206 accuracy - 89
Discrete CMAC: => g - 32 epoch - 7 => error - 0.09040640476144535 accuracy - 90
Discrete CMAC: => g - 32 epoch - 8 => error - 0.085830147796362 accuracy - 91.4
Discrete CMAC: => g - 32 epoch - 9 => error - 0.08409110567735922 accuracy - 91
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Discrete CMAC: => g - 32 epoch - 17 => error - 0.07827540918017539 accuracy - 9
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Discrete CMAC: => g - 32 epoch - 24 => error - 0.07397163639646953 accuracy - 9
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Discrete CMAC: => g - 32 epoch - 32 => error - 0.06953598654550963 accuracy - 9
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Discrete CMAC: => g - 32 epoch - 58 => error - 0.05820106216223242 accuracy - 9
Discrete CMAC: => g - 32 epoch - 59 => error - 0.05784773202400073 accuracy - 9

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Discrete CMAC: => g - 32 epoch - 113 => error - 0.0453462704356572 accuracy - 9
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Discrete CMAC: => g - 32 epoch - 115 => error - 0.04507428944142999 accuracy -
Discrete CMAC: => g - 32 epoch - 116 => error - 0.04494207204235101 accuracy -

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Discrete CMAC: => g - 32 epoch - 117 => error - 0.04481231602256608 accuracy -
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Discrete CMAC: => g - 32 epoch - 171 => error - 0.04051927982878589 accuracy -
Discrete CMAC: => g - 32 epoch - 172 => error - 0.04047572063924021 accuracy -

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Discrete CMAC:	=> g - 32 epoch - 173	=> error - 0.04043305200690983	accuracy -
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Discrete CMAC:	=> g - 32 epoch - 211	=> error - 0.03932549082892234	accuracy -
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Discrete CMAC:	=> g - 32 epoch - 225	=> error - 0.039095331081150375	accuracy -
Discrete CMAC:	=> g - 32 epoch - 226	=> error - 0.03908137519642141	accuracy -
Discrete CMAC:	=> g - 32 epoch - 227	=> error - 0.03906771474046522	accuracy -
Discrete CMAC:	=> g - 32 epoch - 228	=> error - 0.039054343566907845	accuracy -
Discrete CMAC:	=> g - 32 epoch - 229	=> error - 0.03904125565309213	accuracy -

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Discrete CMAC: => g - 32 epoch - 231 => error - 0.03901590611874073 accuracy -
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Discrete CMAC: => g - 32 epoch - 235 => error - 0.03896835436660917 accuracy -
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Discrete CMAC: => g - 32 epoch - 246 => error - 0.03885681800279317 accuracy -
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Discrete CMAC: => g - 32 epoch - 251 => error - 0.0388142168827601 accuracy - 9
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Discrete CMAC: => g - 32 epoch - 263 => error - 0.03872890667472817 accuracy -
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Discrete CMAC: => g - 32 epoch - 274 => error - 0.0386679447192656 accuracy - 9
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Discrete CMAC: => g - 32 epoch - 284 => error - 0.03862381770453038 accuracy -
Discrete CMAC: => g - 32 epoch - 285 => error - 0.03861990883856292 accuracy -

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Discrete CMAC:	=> g - 32 epoch - 286	=> error - 0.038616083901569676	accuracy -
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Discrete CMAC:	=> g - 32 epoch - 342	=> error - 0.03849361800356843	accuracy -

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Discrete CMAC:	=> g - 32 epoch - 352	=> error - 0.03848359133403556	accuracy -
Discrete CMAC:	=> g - 32 epoch - 353	=> error - 0.03848270421041322	accuracy -
Discrete CMAC:	=> g - 32 epoch - 354	=> error - 0.03848183631597768	accuracy -
Discrete CMAC:	=> g - 32 epoch - 355	=> error - 0.038480987236703124	accuracy -
Discrete CMAC:	=> g - 32 epoch - 356	=> error - 0.038480156567435087	accuracy -
Discrete CMAC:	=> g - 32 epoch - 357	=> error - 0.03847934391170149	accuracy -
Discrete CMAC:	=> g - 32 epoch - 358	=> error - 0.03847854888152713	accuracy -
Discrete CMAC:	=> g - 32 epoch - 359	=> error - 0.03847777109725292	accuracy -
Discrete CMAC:	=> g - 32 epoch - 360	=> error - 0.038477010187358496	accuracy -
Discrete CMAC:	=> g - 32 epoch - 361	=> error - 0.038476265788288555	accuracy -
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Discrete CMAC:	=> g - 32 epoch - 363	=> error - 0.0384748251072109	accuracy - 9
Discrete CMAC:	=> g - 32 epoch - 364	=> error - 0.03847412813640727	accuracy -
Discrete CMAC:	=> g - 32 epoch - 365	=> error - 0.038473446298514014	accuracy -
Discrete CMAC:	=> g - 32 epoch - 366	=> error - 0.03847277926732384	accuracy -
Discrete CMAC:	=> g - 32 epoch - 367	=> error - 0.038472126723627875	accuracy -
Discrete CMAC:	=> g - 32 epoch - 368	=> error - 0.03847148835506575	accuracy -
Discrete CMAC:	=> g - 32 epoch - 369	=> error - 0.038470863855979975	accuracy -
Discrete CMAC:	=> g - 32 epoch - 370	=> error - 0.03847025292727213	accuracy -
Discrete CMAC:	=> g - 32 epoch - 371	=> error - 0.038469655276263226	accuracy -
Discrete CMAC:	=> g - 32 epoch - 372	=> error - 0.03846907061655658	accuracy -
Discrete CMAC:	=> g - 32 epoch - 373	=> error - 0.03846849866790325	accuracy -
Discrete CMAC:	=> g - 32 epoch - 374	=> error - 0.03846793915607072	accuracy -
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Discrete CMAC:	=> g - 32 epoch - 376	=> error - 0.03846685637525249	accuracy -
Discrete CMAC:	=> g - 32 epoch - 377	=> error - 0.038466332586740926	accuracy -
Discrete CMAC:	=> g - 32 epoch - 378	=> error - 0.03846582019575484	accuracy -
Discrete CMAC:	=> g - 32 epoch - 379	=> error - 0.038465318956269146	accuracy -
Discrete CMAC:	=> g - 32 epoch - 380	=> error - 0.03846482862754397	accuracy -
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Discrete CMAC:	=> g - 32 epoch - 382	=> error - 0.03846387976516319	accuracy -
Discrete CMAC:	=> g - 32 epoch - 383	=> error - 0.03846342077544607	accuracy -
Discrete CMAC:	=> g - 32 epoch - 384	=> error - 0.03846297178415248	accuracy -
Discrete CMAC:	=> g - 32 epoch - 385	=> error - 0.03846253257531784	accuracy -
Discrete CMAC:	=> g - 32 epoch - 386	=> error - 0.03846210293761976	accuracy -
Discrete CMAC:	=> g - 32 epoch - 387	=> error - 0.03846168266427774	accuracy -
Discrete CMAC:	=> g - 32 epoch - 388	=> error - 0.03846127155295653	accuracy -
Discrete CMAC:	=> g - 32 epoch - 389	=> error - 0.038460869405670506	accuracy -
Discrete CMAC:	=> g - 32 epoch - 390	=> error - 0.03846047602869096	accuracy -
Discrete CMAC:	=> g - 32 epoch - 391	=> error - 0.03846009123245475	accuracy -
Discrete CMAC:	=> g - 32 epoch - 392	=> error - 0.03845971483147492	accuracy -
Discrete CMAC:	=> g - 32 epoch - 393	=> error - 0.038459346644253656	accuracy -
Discrete CMAC:	=> g - 32 epoch - 394	=> error - 0.03845898649319679	accuracy -
Discrete CMAC:	=> g - 32 epoch - 395	=> error - 0.038458634204529885	accuracy -
Discrete CMAC:	=> g - 32 epoch - 396	=> error - 0.038458289608216956	accuracy -
Discrete CMAC:	=> g - 32 epoch - 397	=> error - 0.038457952537879536	accuracy -
Discrete CMAC:	=> g - 32 epoch - 398	=> error - 0.038457622830719296	accuracy -



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Discrete CMAC: => g - 32 epoch - 399 => error - 0.038457300327440436 accuracy -
Discrete CMAC: => g - 32 epoch - 400 => error - 0.03845698487217519 accuracy -
Discrete CMAC: => g - 32 epoch - 401 => error - 0.0384566763124099 accuracy - 9
Discrete CMAC: => g - 32 epoch - 402 => error - 0.03845637449891348 accuracy -
Discrete CMAC: => g - 32 epoch - 403 => error - 0.038456079285666855 accuracy -
Discrete CMAC: => g - 32 epoch - 404 => error - 0.0384557905297942 accuracy - 9
Discrete CMAC: => g - 32 epoch - 405 => error - 0.03845550809149523 accuracy -
Discrete CMAC: => g - 32 epoch - 406 => error - 0.03845523183397981 accuracy -
Discrete CMAC: => g - 32 epoch - 407 => error - 0.038454961623402784 accuracy -
Discrete CMAC: => g - 32 epoch - 408 => error - 0.038454697328801135 accuracy -
Discrete CMAC: => g - 32 epoch - 409 => error - 0.038454438822032144 accuracy -
Discrete CMAC: => g - 32 epoch - 410 => error - 0.038454185977712774 accuracy -
Discrete CMAC: => g - 32 epoch - 411 => error - 0.038453938673160715 accuracy -
Discrete CMAC: => g - 32 epoch - 412 => error - 0.03845369678833588 accuracy -
Discrete CMAC: => g - 32 epoch - 413 => error - 0.03845346020578455 accuracy -
Discrete CMAC: => g - 32 epoch - 414 => error - 0.038453228810582885 accuracy -
Discrete CMAC: => g - 32 epoch - 415 => error - 0.038453002490283605 accuracy -
Discrete CMAC: => g - 32 epoch - 416 => error - 0.038452781134861946 accuracy -
Discrete CMAC: => g - 32 epoch - 417 => error - 0.038452564636664466 accuracy -
Discrete CMAC: => g - 32 epoch - 418 => error - 0.03845235289035742 accuracy -
Discrete CMAC: => g - 32 epoch - 419 => error - 0.03845214579287748 accuracy -
Discrete CMAC: => g - 32 epoch - 420 => error - 0.03845194324338275 accuracy -
Discrete CMAC: => g - 32 epoch - 421 => error - 0.03845174514320526 accuracy -
Discrete CMAC: => g - 32 epoch - 422 => error - 0.03845155139580381 accuracy -
Discrete CMAC: => g - 32 epoch - 423 => error - 0.03845136190671894 accuracy -
Discrete CMAC: => g - 32 epoch - 424 => error - 0.0384511765835277 accuracy - 9
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Discrete CMAC: => g - 32 epoch - 426 => error - 0.0384508180750569 accuracy - 9
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Discrete CMAC: => g - 32 epoch - 428 => error - 0.038450475170103804 accuracy -
Discrete CMAC: => g - 32 epoch - 429 => error - 0.03845030935831306 accuracy -
Discrete CMAC: => g - 32 epoch - 430 => error - 0.03845014719826456 accuracy -
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Discrete CMAC: => g - 32 epoch - 432 => error - 0.03844983351774811 accuracy -
Discrete CMAC: => g - 32 epoch - 433 => error - 0.03844968184369979 accuracy -
Discrete CMAC: => g - 32 epoch - 434 => error - 0.03844953351416036 accuracy -
Discrete CMAC: => g - 32 epoch - 435 => error - 0.0384493884564201 accuracy - 9
Discrete CMAC: => g - 32 epoch - 436 => error - 0.03844924659933879 accuracy -
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Discrete CMAC: => g - 32 epoch - 442 => error - 0.0384484588762275 accuracy - 9
Discrete CMAC: => g - 32 epoch - 443 => error - 0.03844833755675536 accuracy -
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Discrete CMAC: => g - 32 epoch - 446 => error - 0.03844798947060957 accuracy -
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Discrete CMAC: => g - 32 epoch - 449 => error - 0.038447664004625626 accuracy -
Discrete CMAC: => g - 32 epoch - 450 => error - 0.038447560289900706 accuracy -
Discrete CMAC: => g - 32 epoch - 451 => error - 0.03844745887574674 accuracy -
Discrete CMAC: => g - 32 epoch - 452 => error - 0.038447359712002305 accuracy -
Discrete CMAC: => g - 33 epoch - 1 => error - 1.9484369392152547 accuracy - -94
Discrete CMAC: => g - 33 epoch - 2 => error - 0.9671361269589073 accuracy - 3.2
Discrete CMAC: => g - 33 epoch - 3 => error - 0.4812002457062216 accuracy - 51

```

```

Discrete CMAC:  => g - 33 epoch - 3  => error - 0.4842302437002210 accuracy - 51.
Discrete CMAC:  => g - 33 epoch - 4  => error - 0.2506227912476535 accuracy - 74.
Discrete CMAC:  => g - 33 epoch - 5  => error - 0.14388496708928133 accuracy - 85
Discrete CMAC:  => g - 33 epoch - 6  => error - 0.10179641568509445 accuracy - 89
Discrete CMAC:  => g - 33 epoch - 7  => error - 0.08840803452257429 accuracy - 91
Discrete CMAC:  => g - 33 epoch - 8  => error - 0.08476575548566467 accuracy - 91
Discrete CMAC:  => g - 33 epoch - 9  => error - 0.08382855743178952 accuracy - 91
Discrete CMAC:  => g - 33 epoch - 10 => error - 0.08358693727589672 accuracy - 9
Discrete CMAC:  => g - 33 epoch - 11 => error - 0.08352245076140885 accuracy - 9
Discrete CMAC:  => g - 33 epoch - 12 => error - 0.08350407117414216 accuracy - 9
Discrete CMAC:  => g - 33 epoch - 13 => error - 0.08349829251610774 accuracy - 9
Discrete CMAC:  => g - 33 epoch - 14 => error - 0.08349624527894117 accuracy - 9

```

2. Program a Continuous CMAC by allowing partial cell overlap, and modifying the weight update rule accordingly. Use only 35 weights for your CMAC, and sample your function at 100 evenly spaced points. Use 70 for training and 30 for testing. Report the accuracy of your CMAC network using only the 30 test points. Compare the output of the Discrete CMAC with that of the Continuous CMAC.

```

Discrete CMAC:  => g - 34 epoch - 6  => error - 0.1028103860910845 accuracy - 89.
# Child class of CMAC for continuous case
class ContinuousCMAC(CMAC):

    def __init__(self, gen_factor, num_weights):
        CMAC.__init__(self, gen_factor, num_weights)

    def get_assoc_vec_ind(self, input_val, num_of_assoc_vec, input_min, input_max):
        if input_val < input_min:
            return 1
        elif input_val > input_max:
            return num_of_assoc_vec-1
        else:
            proportion_ind = (num_of_assoc_vec-2) * ((input_val - input_min)/(input_max - input_min))
            return proportion_ind

    ''' For continuous CMAC we need to consider some portion of adjacent
        windows too for consecutive input values.
        To consider the window of adjacent weights, this function return a set of two indices
        where the sample input value lies
        e.g. if the value = 2.5564 and it lies between the samples 2.4 (at ind=3)
            and 2.9(at ind=4) (values in the assoc_input_vector),
            then this function will return 2.5566 -> (3,4)
    '''

    def process_association_map(self, data, input_min, input_max):
        num_of_assoc_vec = self.num_weights + 1 - self.gen_factor
        for ind, data_val in enumerate(data):
            assoc_vec_ind = self.get_assoc_vec_ind(data_val[0], num_of_assoc_vec, input_min, input_max)
            assoc_vec_ind_flr = int(math.floor(assoc_vec_ind))
            assoc_vec_ind_ceil = int(math.ceil(assoc_vec_ind))

            if (assoc_vec_ind_flr != assoc_vec_ind_ceil):

```

```

        self.association_map[data_val[0]] = (assoc_vec_ind_flr, assoc_vec_ind_ceil)
    else:
        self.association_map[data_val[0]] = (assoc_vec_ind_flr, 0)

def train(self, train_data, input_min, input_max, total_epoch = 5000, learning_rate = 0.001, gen_factor = 1.0):
    self.weight_vec = np.ones(self.num_weights)
    input_X_vec = np.linspace(input_min, input_max, self.num_weights + 1 - self.gen_factor)
    alpha = learning_rate
    epoch = 0

    self.association_map = {}
    self.process_association_map(train_data, input_min, input_max)

    is_converged = False
    prev_error = 0
    new_error = 0
    start_time = time.time()

    while epoch <= total_epoch and not is_converged:
        prev_error = new_error
        for ind, train_val in enumerate(train_data):
            asc_wt_ind_flr = self.association_map[train_val[0]][0]
            asc_wt_ind_ceil = self.association_map[train_val[0]][1]

            left_common = np.abs(input_X_vec[asc_wt_ind_flr] - train_val[0])
            right_common = np.abs(input_X_vec[asc_wt_ind_ceil] - train_val[0])

            left_contri_ratio = right_common / (left_common + right_common)
            right_contri_ratio = left_common / (left_common + right_common)

            y_output = (left_contri_ratio * np.sum(self.weight_vec[asc_wt_ind_flr: asc_wt_ind_ceil]) +
                        right_contri_ratio * np.sum(self.weight_vec[asc_wt_ind_ceil: asc_wt_ind_flr]))

            error = train_val[1] - y_output
            correction = alpha * error / self.gen_factor

            self.weight_vec[asc_wt_ind_flr: (asc_wt_ind_flr + self.gen_factor)] = \
                [(self.weight_vec[ind] + correction) for ind in range(asc_wt_ind_flr, asc_wt_ind_flr + self.gen_factor)]

            self.weight_vec[asc_wt_ind_ceil: (asc_wt_ind_ceil + self.gen_factor)] = \
                [(self.weight_vec[ind] + correction) for ind in range(asc_wt_ind_ceil, asc_wt_ind_ceil + self.gen_factor)]

        intermediate_output, accuracy = self.predict(train_data, input_min, input_max, False)
        new_error = 1 - accuracy
        if np.abs(prev_error - new_error) < 0.0000001:
            is_converged = True

        epoch = epoch + 1
        print("Continuous CMAC: ", " " => g "-", self.gen_factor, "epoch - ", epoch, " " => e

```

```

    end_time = time.time()
    process_time = end_time - start_time
    return process_time, np.copy(self.weight_vec)

def calculate_error(self, y_predict, y_expected):
    error = np.subtract(y_expected, y_predict)
    error_sq = np.power(error, 2)
    sum_error_sq = np.sum(error_sq)
    total_error = np.sqrt(sum_error_sq)/len(y_expected)
    return total_error

def predict(self, test_data, input_min, input_max, re_process_asso_map = True):
    output = []

    input_X_vec = np.linspace(input_min, input_max, self.num_weights + 1 - self.gen_factor)

    if re_process_asso_map:
        self.process_association_map(test_data, input_min, input_max)

    for ind, test_val in enumerate(test_data):
        asc_wt_ind_flr = self.association_map[test_val[0]][0]
        asc_wt_ind_ceil = self.association_map[test_val[0]][1]

        left_common = np.abs(input_X_vec[asc_wt_ind_flr] - test_val[0])
        right_common = np.abs(input_X_vec[asc_wt_ind_ceil] - test_val[0])

        left_contri_ratio = right_common/(left_common + right_common)
        right_contri_ratio = left_common/(left_common + right_common)

        y_output = (left_contri_ratio * np.sum(self.weight_vec[asc_wt_ind_flr: asc_wt_ind_ceil]))

        output.append(y_output)

    error = self.calculate_error(output, test_data[:, 1])
    accuracy = 1 - error
    return output, accuracy

# The process to the train the continuous CMAC was similar
# to that of the discrete CMAC.
# The only difference here was to consider the proportion of weights
# (overlapping window size) to find out which weights are contributing
# in which proportion.
'''This Code runs discrete and Continuous CMAC models'''

### These lines are repeated from Discrete in case this block run separately###
TWO_PI = 2*np.pi
sample_input = np.linspace(0, TWO_PI, 100)
sample_output = np.sin(sample_input)

total_data = np.column_stack((sample_input, sample_output))

```

```

np.random.shuffle(total_data)

train_data = total_data[:70]
test_data = total_data[70:] #30 data points

x_train = train_data[:, 0]
x_test = test_data[:, 0]

y_train = train_data[:, 1]
y_test = test_data[:, 1]

num_weights = 35

gen_factor_list = range(1, num_weights)

convergence_time_discrete = []
accuracies_discrete = []
#####

# Continuous variables
convergence_time_continuous = []
accuracies_continuous = []

#continuous class Object
continuous_cmac = ContinuousCMAC(1, num_weights)
discrete_cmac = DiscreteCMAC(1, num_weights)

for gen_factor in gen_factor_list:
    # Discrete CMAC
    discrete_cmac.set_gen_factor(gen_factor)
    process_time_discrete, weight_vec_discrete = discrete_cmac.train(train_data, 0, TWO_PI,
    y_output_discrete, accuracy_discrete = discrete_cmac.predict(test_data, 0, TWO_PI)

    # Continuous CMAC
    continuous_cmac.set_gen_factor(gen_factor)
    process_time_continuous, weight_vec_continuous = continuous_cmac.train(train_data, 0, 1
    y_output_continuous, accuracy_continuous = continuous_cmac.predict(test_data, 0, TWO_PI)

    #Accuracy and Convergence time
    convergence_time_discrete.append(process_time_discrete)
    accuracies_discrete.append(accuracy_discrete)
    convergence_time_continuous.append(process_time_continuous)
    accuracies_continuous.append(accuracy_continuous)

fig, (ax1, ax2) = plt.subplots(1, 2)
plt.style.use('seaborn-whitegrid')

ax1.set_title('Convergence time v/s Generalization Factor')
ax1.plot(gen_factor_list, convergence_time_discrete, label="Discrete CMAC")
ax1.plot(gen_factor_list, convergence_time_continuous, color = (1,0,0), label="Continuous CMAC")
ax1.set_xlabel='generalization factor', ylabel='Convergence time')

```

```
ax1.legend()

ax2.set_title('Accuracy v/s Generalization Factor')
ax2.plot(gen_factor_list, accuracies_discrete, label="Discrete CMAC")
ax2.plot(gen_factor_list, accuracies_continuous, color = (1,0,0), label="Continuous CMAC")
ax2.set(xlabel='generalization factor', ylabel='Accuracy')
ax2.legend()

plt.show()
```

**Streaming output truncated to the last 5000 lines.**

Continuous CMAC:	=> g - 31 epoch - 2229	=> error - 0.04020003765139257	accuracy
Continuous CMAC:	=> g - 31 epoch - 2230	=> error - 0.040196759282436045	accuracy
Continuous CMAC:	=> g - 31 epoch - 2231	=> error - 0.040193483433979105	accuracy
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Continuous CMAC:	=> g - 31 epoch -	4134	=> error - 0.0374734927432937	accuracy -
Continuous CMAC:	=> g - 31 epoch -	4135	=> error - 0.03747337653080873	accuracy
Continuous CMAC:	=> g - 31 epoch -	4136	=> error - 0.037473261198986973	accuracy
Continuous CMAC:	=> g - 31 epoch -	4137	=> error - 0.0374731467471725	accuracy -
Continuous CMAC:	=> g - 31 epoch -	4138	=> error - 0.03747303317471018	accuracy
Continuous CMAC:	=> g - 31 epoch -	4139	=> error - 0.03747292048094486	accuracy
Continuous CMAC:	=> g - 31 epoch -	4140	=> error - 0.037472808665221624	accuracy
Continuous CMAC:	=> g - 31 epoch -	4141	=> error - 0.037472697726886106	accuracy
Continuous CMAC:	=> g - 31 epoch -	4142	=> error - 0.03747258766528405	accuracy
Continuous CMAC:	=> g - 31 epoch -	4143	=> error - 0.03747247847976165	accuracy
Continuous CMAC:	=> g - 31 epoch -	4144	=> error - 0.0374723701696652	accuracy -
Continuous CMAC:	=> g - 31 epoch -	4145	=> error - 0.037472262734341566	accuracy
Continuous CMAC:	=> g - 31 epoch -	4146	=> error - 0.037472156173137594	accuracy



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Continuous CMAC: => g - 31 epoch - 4147 => error - 0.03747205048540059 accuracy
Continuous CMAC: => g - 31 epoch - 4148 => error - 0.03747194567047818 accuracy
Continuous CMAC: => g - 31 epoch - 4149 => error - 0.037471841727718336 accuracy
Continuous CMAC: => g - 31 epoch - 4150 => error - 0.037471738656469133 accuracy
Continuous CMAC: => g - 31 epoch - 4151 => error - 0.037471636456079094 accuracy
Continuous CMAC: => g - 31 epoch - 4152 => error - 0.03747153512589707 accuracy
Continuous CMAC: => g - 31 epoch - 4153 => error - 0.03747143466527214 accuracy
Continuous CMAC: => g - 31 epoch - 4154 => error - 0.0374713350735536 accuracy -
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Discrete CMAC: => g - 32 epoch - 2 => error - 0.9597341739903504 accuracy - 4.0
Discrete CMAC: => g - 32 epoch - 3 => error - 0.4857884628955125 accuracy - 51.
Discrete CMAC: => g - 32 epoch - 4 => error - 0.2540145064457683 accuracy - 74.
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Discrete CMAC: => g - 32 epoch - 47 => error - 0.06179714360112876 accuracy - 9
Discrete CMAC: => g - 32 epoch - 48 => error - 0.06136719923492895 accuracy - 9
Discrete CMAC: => g - 32 epoch - 49 => error - 0.060943606701063304 accuracy -

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Discrete CMAC: => g - 32 epoch - 105 => error - 0.04536740037897069 accuracy -

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Discrete CMAC: => g - 32 epoch - 557 => error - 0.036920714593175474 accuracy -

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Discrete CMAC: => g - 32 epoch - 726 => error - 0.03689910521437123 accuracy -

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Discrete CMAC: => g - 32 epoch - 804 => error - 0.03689064987742896 accuracy -
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Discrete CMAC: => g - 32 epoch - 824 => error - 0.03688860746910627 accuracy -
Discrete CMAC: => g - 32 epoch - 825 => error - 0.036888506639548124 accuracy -
Discrete CMAC: => g - 32 epoch - 826 => error - 0.03688840593185361 accuracy -
Discrete CMAC: => g - 32 epoch - 827 => error - 0.03688830534587806 accuracy -
Discrete CMAC: => g - 32 epoch - 828 => error - 0.03688820488147693 accuracy -
Discrete CMAC: => g - 32 epoch - 829 => error - 0.036888104538505995 accuracy -
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Discrete CMAC: => g - 32 epoch - 831 => error - 0.036887904216279965 accuracy -
Discrete CMAC: => g - 32 epoch - 832 => error - 0.036887804236737765 accuracy -
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Continuous CMAC: => g - 32 epoch - 2 => error - 0.2537423994506919 accuracy - 7
Continuous CMAC: => g - 32 epoch - 3 => error - 0.0975151022512184 accuracy - 9
Continuous CMAC: => g - 32 epoch - 4 => error - 0.07762162278567897 accuracy -
Continuous CMAC: => g - 32 epoch - 5 => error - 0.07569497951731152 accuracy -
Continuous CMAC: => g - 32 epoch - 6 => error - 0.07495637176706527 accuracy -
Continuous CMAC: => g - 32 epoch - 7 => error - 0.0742710171115798 accuracy - 9

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Continuous CMAC: => g - 32 epoch - 9 => error - 0.07292286554647309 accuracy -
Continuous CMAC: => g - 32 epoch - 10 => error - 0.07226551034256978 accuracy -
Continuous CMAC: => g - 32 epoch - 11 => error - 0.07162030771546068 accuracy -
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Continuous CMAC: => g - 32 epoch - 63 => error - 0.051392387394257444 accuracy -

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Continuous CMAC:	=> g - 32 epoch - 176	=> error - 0.04499207420187823	accuracy

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Continuous CMAC: => g - 32 epoch - 180 => error - 0.04499053995326907 accuracy -
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Discrete CMAC: => g - 33 epoch - 2 => error - 0.9680335504499742 accuracy - 3.1
Discrete CMAC: => g - 33 epoch - 3 => error - 0.48437657131806355 accuracy - 51
Discrete CMAC: => g - 33 epoch - 4 => error - 0.25041869112980186 accuracy - 74
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Discrete CMAC: => g - 33 epoch - 7 => error - 0.08957630210759993 accuracy - 91
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Discrete CMAC: => g - 33 epoch - 13 => error - 0.08524974202092495 accuracy - 9
Discrete CMAC: => g - 33 epoch - 14 => error - 0.0852506458712432 accuracy - 91
Discrete CMAC: => g - 33 epoch - 15 => error - 0.08525057505299993 accuracy - 9
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Continuous CMAC: => g - 33 epoch - 38 => error - 0.08591179012983807 accuracy -

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Continuous CMAC:	=> g - 33 epoch - 1787	=> error - 0.09292380058779937	accuracy
Continuous CMAC:	=> g - 33 epoch - 1788	=> error - 0.09292450958483289	accuracy

Continuous	CMAC:	=>	g - 33 epoch - 1789	=>	error - 0.09292521567264256	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1790	=>	error - 0.0929259188531586	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1791	=>	error - 0.09292661912831135	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1792	=>	error - 0.09292731650003072	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1793	=>	error - 0.09292801097024661	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1794	=>	error - 0.09292870254088881	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1795	=>	error - 0.09292939121388688	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1796	=>	error - 0.09293007699117029	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1797	=>	error - 0.09293075987466848	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1798	=>	error - 0.09293143986631036	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1799	=>	error - 0.09293211696802506	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1800	=>	error - 0.09293279118174147	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1801	=>	error - 0.09293346250938828	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1802	=>	error - 0.09293413095289393	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1803	=>	error - 0.0929347965141869	accuracy
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Continuous	CMAC:	=>	g - 33 epoch - 1805	=>	error - 0.09293611899784715	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1806	=>	error - 0.09293677592407046	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1807	=>	error - 0.0929374299757929	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1808	=>	error - 0.09293808115494195	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1809	=>	error - 0.09293872946344506	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1810	=>	error - 0.09293937490322945	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1811	=>	error - 0.09294001747622205	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1812	=>	error - 0.09294065718434985	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1813	=>	error - 0.09294129402953943	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1814	=>	error - 0.09294192801371737	accuracy
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Continuous	CMAC:	=>	g - 33 epoch - 1817	=>	error - 0.09294381281944342	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1818	=>	error - 0.09294443537883612	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1819	=>	error - 0.09294505508684703	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1820	=>	error - 0.09294567194540149	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1821	=>	error - 0.09294628595642462	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1822	=>	error - 0.09294689712184168	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1823	=>	error - 0.09294750544357733	accuracy
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Continuous	CMAC:	=>	g - 33 epoch - 1826	=>	error - 0.09294931336594159	accuracy
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Continuous	CMAC:	=>	g - 33 epoch - 1828	=>	error - 0.09295050446439101	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1829	=>	error - 0.09295109576444927	accuracy
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Continuous	CMAC:	=>	g - 33 epoch - 1832	=>	error - 0.09295285269103903	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1833	=>	error - 0.09295343268178413	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1834	=>	error - 0.0929540098500079	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1835	=>	error - 0.09295458419763303	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1836	=>	error - 0.09295515572658153	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1837	=>	error - 0.09295572443877553	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1838	=>	error - 0.09295629033613662	accuracy
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Continuous	CMAC:	=>	g - 33 epoch - 1841	=>	error - 0.09295797115843785	accuracy
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Continuous	CMAC:	=>	g - 33 epoch - 1843	=>	error - 0.09295907766769762	accuracy
Continuous	CMAC:	=>	g - 33 epoch - 1844	=>	error - 0.09295962671640723	accuracy

Continuous CMAC:	=> g - 33 epoch - 1845	=> error - 0.09296017296373049	accuracy
Continuous CMAC:	=> g - 33 epoch - 1846	=> error - 0.09296071641158721	accuracy
Continuous CMAC:	=> g - 33 epoch - 1847	=> error - 0.09296125706189728	accuracy
Continuous CMAC:	=> g - 33 epoch - 1848	=> error - 0.0929617949165803	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1849	=> error - 0.0929623299775556	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1850	=> error - 0.09296286224674222	accuracy
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Continuous CMAC:	=> g - 33 epoch - 1852	=> error - 0.09296391841742457	accuracy
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Continuous CMAC:	=> g - 33 epoch - 1854	=> error - 0.09296496344397542	accuracy
Continuous CMAC:	=> g - 33 epoch - 1855	=> error - 0.0929654817829968	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1856	=> error - 0.09296599734173916	accuracy
Continuous CMAC:	=> g - 33 epoch - 1857	=> error - 0.09296651012211987	accuracy
Continuous CMAC:	=> g - 33 epoch - 1858	=> error - 0.09296702012605607	accuracy
Continuous CMAC:	=> g - 33 epoch - 1859	=> error - 0.09296752735546476	accuracy
Continuous CMAC:	=> g - 33 epoch - 1860	=> error - 0.09296803181226265	accuracy
Continuous CMAC:	=> g - 33 epoch - 1861	=> error - 0.0929685334983662	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1862	=> error - 0.09296903241569154	accuracy
Continuous CMAC:	=> g - 33 epoch - 1863	=> error - 0.09296952856615459	accuracy
Continuous CMAC:	=> g - 33 epoch - 1864	=> error - 0.09297002195167103	accuracy
Continuous CMAC:	=> g - 33 epoch - 1865	=> error - 0.09297051257415645	accuracy
Continuous CMAC:	=> g - 33 epoch - 1866	=> error - 0.09297100043552586	accuracy
Continuous CMAC:	=> g - 33 epoch - 1867	=> error - 0.0929714855376943	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1868	=> error - 0.09297196788257645	accuracy
Continuous CMAC:	=> g - 33 epoch - 1869	=> error - 0.09297244747208655	accuracy
Continuous CMAC:	=> g - 33 epoch - 1870	=> error - 0.09297292430813886	accuracy
Continuous CMAC:	=> g - 33 epoch - 1871	=> error - 0.09297339839264729	accuracy
Continuous CMAC:	=> g - 33 epoch - 1872	=> error - 0.09297386972752542	accuracy
Continuous CMAC:	=> g - 33 epoch - 1873	=> error - 0.0929743383146866	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1874	=> error - 0.09297480415604398	accuracy
Continuous CMAC:	=> g - 33 epoch - 1875	=> error - 0.09297526725351035	accuracy
Continuous CMAC:	=> g - 33 epoch - 1876	=> error - 0.0929757276089982	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1877	=> error - 0.09297618522441986	accuracy
Continuous CMAC:	=> g - 33 epoch - 1878	=> error - 0.09297664010168738	accuracy
Continuous CMAC:	=> g - 33 epoch - 1879	=> error - 0.09297709224271244	accuracy
Continuous CMAC:	=> g - 33 epoch - 1880	=> error - 0.09297754164940653	accuracy
Continuous CMAC:	=> g - 33 epoch - 1881	=> error - 0.09297798832368076	accuracy
Continuous CMAC:	=> g - 33 epoch - 1882	=> error - 0.09297843226744618	accuracy
Continuous CMAC:	=> g - 33 epoch - 1883	=> error - 0.09297887348261336	accuracy
Continuous CMAC:	=> g - 33 epoch - 1884	=> error - 0.09297931197109255	accuracy
Continuous CMAC:	=> g - 33 epoch - 1885	=> error - 0.092979747734794	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1886	=> error - 0.09298018077562731	accuracy
Continuous CMAC:	=> g - 33 epoch - 1887	=> error - 0.09298061109550215	accuracy
Continuous CMAC:	=> g - 33 epoch - 1888	=> error - 0.09298103869632757	accuracy
Continuous CMAC:	=> g - 33 epoch - 1889	=> error - 0.09298146358001258	accuracy
Continuous CMAC:	=> g - 33 epoch - 1890	=> error - 0.09298188574846589	accuracy
Continuous CMAC:	=> g - 33 epoch - 1891	=> error - 0.09298230520359574	accuracy
Continuous CMAC:	=> g - 33 epoch - 1892	=> error - 0.09298272194731028	accuracy
Continuous CMAC:	=> g - 33 epoch - 1893	=> error - 0.0929831359815172	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1894	=> error - 0.09298354730812386	accuracy
Continuous CMAC:	=> g - 33 epoch - 1895	=> error - 0.09298395592903774	accuracy
Continuous CMAC:	=> g - 33 epoch - 1896	=> error - 0.09298436184616554	accuracy
Continuous CMAC:	=> g - 33 epoch - 1897	=> error - 0.09298476506141384	accuracy
Continuous CMAC:	=> g - 33 epoch - 1898	=> error - 0.09298516557668901	accuracy
Continuous CMAC:	=> g - 33 epoch - 1899	=> error - 0.09298556339389685	accuracy
Continuous CMAC:	=> g - 33 epoch - 1900	=> error - 0.09298595851494329	accuracy
Continuous CMAC:	=> g - 33 epoch - 1901	=> error - 0.09298635094173358	accuracy

Continuous CMAC:	=> g - 33 epoch -	1902	=> error -	0.09298674067617285	accuracy
Continuous CMAC:	=> g - 33 epoch -	1903	=> error -	0.09298712772016571	accuracy
Continuous CMAC:	=> g - 33 epoch -	1904	=> error -	0.09298751207561684	accuracy
Continuous CMAC:	=> g - 33 epoch -	1905	=> error -	0.09298789374443028	accuracy
Continuous CMAC:	=> g - 33 epoch -	1906	=> error -	0.09298827272850996	accuracy
Continuous CMAC:	=> g - 33 epoch -	1907	=> error -	0.09298864902975934	accuracy
Continuous CMAC:	=> g - 33 epoch -	1908	=> error -	0.09298902265008158	accuracy
Continuous CMAC:	=> g - 33 epoch -	1909	=> error -	0.09298939359137981	accuracy
Continuous CMAC:	=> g - 33 epoch -	1910	=> error -	0.09298976185555641	accuracy
Continuous CMAC:	=> g - 33 epoch -	1911	=> error -	0.09299012744451374	accuracy
Continuous CMAC:	=> g - 33 epoch -	1912	=> error -	0.09299049036015383	accuracy
Continuous CMAC:	=> g - 33 epoch -	1913	=> error -	0.09299085060437828	accuracy
Continuous CMAC:	=> g - 33 epoch -	1914	=> error -	0.09299120817908835	accuracy
Continuous CMAC:	=> g - 33 epoch -	1915	=> error -	0.09299156308618517	accuracy
Continuous CMAC:	=> g - 33 epoch -	1916	=> error -	0.09299191532756934	accuracy
Continuous CMAC:	=> g - 33 epoch -	1917	=> error -	0.09299226490514123	accuracy
Continuous CMAC:	=> g - 33 epoch -	1918	=> error -	0.09299261182080087	accuracy
Continuous CMAC:	=> g - 33 epoch -	1919	=> error -	0.09299295607644797	accuracy
Continuous CMAC:	=> g - 33 epoch -	1920	=> error -	0.09299329767398201	accuracy
Continuous CMAC:	=> g - 33 epoch -	1921	=> error -	0.09299363661530191	accuracy
Continuous CMAC:	=> g - 33 epoch -	1922	=> error -	0.09299397290230638	accuracy
Continuous CMAC:	=> g - 33 epoch -	1923	=> error -	0.092994306536894	accuracy -
Continuous CMAC:	=> g - 33 epoch -	1924	=> error -	0.09299463752096271	accuracy
Continuous CMAC:	=> g - 33 epoch -	1925	=> error -	0.0929949658564102	accuracy -
Continuous CMAC:	=> g - 33 epoch -	1926	=> error -	0.09299529154513386	accuracy
Continuous CMAC:	=> g - 33 epoch -	1927	=> error -	0.09299561458903083	accuracy
Continuous CMAC:	=> g - 33 epoch -	1928	=> error -	0.09299593498999781	accuracy
Continuous CMAC:	=> g - 33 epoch -	1929	=> error -	0.09299625274993106	accuracy
Continuous CMAC:	=> g - 33 epoch -	1930	=> error -	0.09299656787072685	accuracy
Continuous CMAC:	=> g - 33 epoch -	1931	=> error -	0.09299688035428066	accuracy
Continuous CMAC:	=> g - 33 epoch -	1932	=> error -	0.09299719020248809	accuracy
Continuous CMAC:	=> g - 33 epoch -	1933	=> error -	0.09299749741724384	accuracy
Continuous CMAC:	=> g - 33 epoch -	1934	=> error -	0.09299780200044294	accuracy
Continuous CMAC:	=> g - 33 epoch -	1935	=> error -	0.09299810395397945	accuracy
Continuous CMAC:	=> g - 33 epoch -	1936	=> error -	0.0929984032797474	accuracy -
Continuous CMAC:	=> g - 33 epoch -	1937	=> error -	0.0929986999796405	accuracy -
Continuous CMAC:	=> g - 33 epoch -	1938	=> error -	0.0929989940555519	accuracy -
Continuous CMAC:	=> g - 33 epoch -	1939	=> error -	0.09299928550937475	accuracy
Continuous CMAC:	=> g - 33 epoch -	1940	=> error -	0.09299957434300143	accuracy
Continuous CMAC:	=> g - 33 epoch -	1941	=> error -	0.09299986055832421	accuracy
Continuous CMAC:	=> g - 33 epoch -	1942	=> error -	0.09300014415723501	accuracy
Continuous CMAC:	=> g - 33 epoch -	1943	=> error -	0.09300042514162532	accuracy
Continuous CMAC:	=> g - 33 epoch -	1944	=> error -	0.0930007035133863	accuracy -
Continuous CMAC:	=> g - 33 epoch -	1945	=> error -	0.09300097927440876	accuracy
Continuous CMAC:	=> g - 33 epoch -	1946	=> error -	0.09300125242658319	accuracy
Continuous CMAC:	=> g - 33 epoch -	1947	=> error -	0.09300152297179964	accuracy
Continuous CMAC:	=> g - 33 epoch -	1948	=> error -	0.09300179091194771	accuracy
Continuous CMAC:	=> g - 33 epoch -	1949	=> error -	0.093002056248917	accuracy -
Continuous CMAC:	=> g - 33 epoch -	1950	=> error -	0.09300231898459632	accuracy
Continuous CMAC:	=> g - 33 epoch -	1951	=> error -	0.09300257912087428	accuracy
Continuous CMAC:	=> g - 33 epoch -	1952	=> error -	0.09300283665963938	accuracy
Continuous CMAC:	=> g - 33 epoch -	1953	=> error -	0.0930030916027792	accuracy -
Continuous CMAC:	=> g - 33 epoch -	1954	=> error -	0.09300334395218157	accuracy
Continuous CMAC:	=> g - 33 epoch -	1955	=> error -	0.09300359370973355	accuracy
Continuous CMAC:	=> g - 33 epoch -	1956	=> error -	0.09300384087732172	accuracy
Continuous CMAC:	=> g - 33 epoch -	1957	=> error -	0.09300408545683281	accuracy

Continuous CMAC:	=> g - 33 epoch - 1958	=> error - 0.09300432745015275	accuracy
Continuous CMAC:	=> g - 33 epoch - 1959	=> error - 0.09300456685916725	accuracy
Continuous CMAC:	=> g - 33 epoch - 1960	=> error - 0.09300480368576147	accuracy
Continuous CMAC:	=> g - 33 epoch - 1961	=> error - 0.09300503793182036	accuracy
Continuous CMAC:	=> g - 33 epoch - 1962	=> error - 0.09300526959922861	accuracy
Continuous CMAC:	=> g - 33 epoch - 1963	=> error - 0.09300549868987029	accuracy
Continuous CMAC:	=> g - 33 epoch - 1964	=> error - 0.09300572520562922	accuracy
Continuous CMAC:	=> g - 33 epoch - 1965	=> error - 0.09300594914838867	accuracy
Continuous CMAC:	=> g - 33 epoch - 1966	=> error - 0.0930061705200319	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1967	=> error - 0.09300638932244132	accuracy
Continuous CMAC:	=> g - 33 epoch - 1968	=> error - 0.0930066055574994	accuracy -
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Continuous CMAC:	=> g - 33 epoch - 1970	=> error - 0.0930070303330881	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1971	=> error - 0.09300723887738138	accuracy
Continuous CMAC:	=> g - 33 epoch - 1972	=> error - 0.09300744486184831	accuracy
Continuous CMAC:	=> g - 33 epoch - 1973	=> error - 0.09300764828836938	accuracy
Continuous CMAC:	=> g - 33 epoch - 1974	=> error - 0.09300784915882432	accuracy
Continuous CMAC:	=> g - 33 epoch - 1975	=> error - 0.09300804747509273	accuracy
Continuous CMAC:	=> g - 33 epoch - 1976	=> error - 0.09300824323905377	accuracy
Continuous CMAC:	=> g - 33 epoch - 1977	=> error - 0.09300843645258616	accuracy
Continuous CMAC:	=> g - 33 epoch - 1978	=> error - 0.0930086271175683	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1979	=> error - 0.09300881523587812	accuracy
Continuous CMAC:	=> g - 33 epoch - 1980	=> error - 0.09300900080939312	accuracy
Continuous CMAC:	=> g - 33 epoch - 1981	=> error - 0.09300918383999046	accuracy
Continuous CMAC:	=> g - 33 epoch - 1982	=> error - 0.09300936432954698	accuracy
Continuous CMAC:	=> g - 33 epoch - 1983	=> error - 0.09300954227993896	accuracy
Continuous CMAC:	=> g - 33 epoch - 1984	=> error - 0.09300971769304245	accuracy
Continuous CMAC:	=> g - 33 epoch - 1985	=> error - 0.09300989057073294	accuracy
Continuous CMAC:	=> g - 33 epoch - 1986	=> error - 0.0930100609148855	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1987	=> error - 0.09301022872737508	accuracy
Continuous CMAC:	=> g - 33 epoch - 1988	=> error - 0.09301039401007583	accuracy
Continuous CMAC:	=> g - 33 epoch - 1989	=> error - 0.0930105567648617	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1990	=> error - 0.0930107169936063	accuracy -
Continuous CMAC:	=> g - 33 epoch - 1991	=> error - 0.09301087469818281	accuracy
Continuous CMAC:	=> g - 33 epoch - 1992	=> error - 0.09301102988046361	accuracy
Continuous CMAC:	=> g - 33 epoch - 1993	=> error - 0.09301118254232132	accuracy
Continuous CMAC:	=> g - 33 epoch - 1994	=> error - 0.09301133268562767	accuracy
Continuous CMAC:	=> g - 33 epoch - 1995	=> error - 0.09301148031225415	accuracy
Continuous CMAC:	=> g - 33 epoch - 1996	=> error - 0.09301162542407182	accuracy
Continuous CMAC:	=> g - 33 epoch - 1997	=> error - 0.09301176802295119	accuracy
Continuous CMAC:	=> g - 33 epoch - 1998	=> error - 0.09301190811076276	accuracy
Continuous CMAC:	=> g - 33 epoch - 1999	=> error - 0.09301204568937604	accuracy
Continuous CMAC:	=> g - 33 epoch - 2000	=> error - 0.09301218076066053	accuracy
Continuous CMAC:	=> g - 33 epoch - 2001	=> error - 0.09301231332648519	accuracy
Continuous CMAC:	=> g - 33 epoch - 2002	=> error - 0.0930124433887185	accuracy -
Continuous CMAC:	=> g - 33 epoch - 2003	=> error - 0.09301257094922866	accuracy
Continuous CMAC:	=> g - 33 epoch - 2004	=> error - 0.09301269600988327	accuracy
Continuous CMAC:	=> g - 33 epoch - 2005	=> error - 0.09301281857254973	accuracy
Continuous CMAC:	=> g - 33 epoch - 2006	=> error - 0.09301293863909466	accuracy
Continuous CMAC:	=> g - 33 epoch - 2007	=> error - 0.09301305621138478	accuracy
Continuous CMAC:	=> g - 33 epoch - 2008	=> error - 0.09301317129128583	accuracy
Continuous CMAC:	=> g - 33 epoch - 2009	=> error - 0.09301328388066343	accuracy
Continuous CMAC:	=> g - 33 epoch - 2010	=> error - 0.09301339398138286	accuracy
Continuous CMAC:	=> g - 33 epoch - 2011	=> error - 0.09301350159530863	accuracy
Continuous CMAC:	=> g - 33 epoch - 2012	=> error - 0.09301360672430503	accuracy
Continuous CMAC:	=> g - 33 epoch - 2013	=> error - 0.09301370937023601	accuracy
Continuous CMAC:	=> g - 33 epoch - 2014	=> error - 0.09301380953106406	accuracy

```

Continuous CMAC:  => g - 33 epoch - 2014  => error - 0.09301390722035474  accuracy
Continuous CMAC:  => g - 33 epoch - 2015  => error - 0.09301390722035474  accuracy
Discrete CMAC:    => g - 34 epoch - 1      => error - 2.0083115801336135  accuracy - -10
Discrete CMAC:    => g - 34 epoch - 2      => error - 0.9956203190311901  accuracy - 0.4
Discrete CMAC:    => g - 34 epoch - 3      => error - 0.4972133933941083  accuracy - 50.

```

3. Discuss how you might use recurrent connections to train a CMAC to output a desired trajectory without using time as an input (e.g., state only). You may earn up to 5 extra homework points if you implement your idea and show that it works.

```
Discrete CMAC:  => g - 34 epoch - 10  => error - 0.08404767709313377  accuracy - 9
```

### Framework for recurrent Neural Network (RNN)

1. Initialize weight matrices U, V, W from random distribution and bias b, c with zeros
2. Forward propagation to compute predictions
3. Compute the loss
4. Back-propagation to compute gradients
5. Update weights based on gradients
6. Repeat steps 2–5

The below is code for predicting words based on a couple sentences.

For applying to a trajectory, one could make the data the various states possible (up, down, left, right) and have it decide on where to go. This can be similar to a path-planning algorithm but can be more cumbersome to write/code than doing a more basic algorithm like A\* or Dijkstra which can also account for the environment and obstacles (moving and stationary).

```
Continuous CMAC:  => g - 34 epoch - 11  => error - 0.08409269399201358  accuracy -
```

```
# Class for Recurrent Neural Network
```

```
import numpy as np
```

```
class RNN:
```

```

    def __init__(self, hidden_size, vocab_size, seq_length, learning_rate):
        # hyper parameters
        self.hidden_size = hidden_size
        self.vocab_size = vocab_size
        self.seq_length = seq_length
        self.learning_rate = learning_rate
        # model parameters
        self.U = np.random.uniform(-np.sqrt(1./vocab_size), np.sqrt(1./vocab_size), (hidden_size, vocab_size))
        self.V = np.random.uniform(-np.sqrt(1./hidden_size), np.sqrt(1./hidden_size), (vocab_size, hidden_size))
        self.W = np.random.uniform(-np.sqrt(1./hidden_size), np.sqrt(1./hidden_size), (hidden_size, hidden_size))
        self.b = np.zeros((hidden_size, 1)) # bias for hidden layer
        self.c = np.zeros((vocab_size, 1)) # bias for output

        # memory vars
        self.mU = np.zeros_like(self.U)
        self.mV = np.zeros_like(self.V)
        self.mW = np.zeros_like(self.W)

```

```

self.mb = np.zeros_like(self.b)
self.mc = np.zeros_like(self.c)

#probability of next character (like chatGPT)
def softmax(self, x):
    p = np.exp(x- np.max(x))
    return p / np.sum(p)

def forward(self, inputs, hprev):
    xs, hs, os, ycap = {}, {}, {}, {}
    hs[-1] = np.copy(hprev)
    for t in range(len(inputs)):
        xs[t] = np.zeros((self.vocab_size,1))
        xs[t][inputs[t]] = 1 # one hot encoding , 1-of-k
        hs[t] = np.tanh(np.dot(self.U,xs[t]) + np.dot(self.W,hs[t-1]) + self.b) # hic
        os[t] = np.dot(self.V,hs[t]) + self.c # unnormalised log probs for next char
        ycap[t] = self.softmax(os[t]) # probs for next char
    return xs, hs, ycap

def backward(self, xs, hs, ps, targets):
    # backward pass: compute gradients going backwards
    dU, dW, dV = np.zeros_like(self.U), np.zeros_like(self.W), np.zeros_like(self.V)
    db, dc = np.zeros_like(self.b), np.zeros_like(self.c)
    dhnext = np.zeros_like(hs[0])
    for t in reversed(range(self.seq_length)):
        dy = np.copy(ps[t])
        #through softmax
        dy[targets[t]] -= 1 # backprop into y
        #calculate dV, dc
        dV += np.dot(dy, hs[t].T)
        dc += dc
        #dh includes gradient from two sides, next cell and current output
        dh = np.dot(self.V.T, dy) + dhnext # backprop into h
        # backprop through tanh non-linearity
        dhrec = (1 - hs[t] * hs[t]) * dh #dhrec is the term used in many equations
        db += dhrec
        #calculate dU and dW
        dU += np.dot(dhrec, xs[t].T)
        dW += np.dot(dhrec, hs[t-1].T)
        #pass the gradient from next cell to the next iteration.
        dhnext = np.dot(self.W.T, dhrec)
    # clip to mitigate exploding gradients
    for dparam in [dU, dW, dV, db, dc]:
        np.clip(dparam, -5, 5, out=dparam)
    return dU, dW, dV, db, dc

def loss(self, ps, targets):
    """loss for a sequence"""
    # calculate cross-entropy loss
    return sum(-np.log(ps[t][targets[t],0]) for t in range(self.seq_length))

```



```

def update_model(self, dU, dW, dV, db, dc):
    for param, dparam, mem in zip([self.U, self.W, self.V, self.b, self.c],
                                   [dU, dW, dV, db, dc],
                                   [self.mU, self.mW, self.mV, self.mb, self.mc]):
        mem += dparam*dparam
        param += -self.learning_rate*dparam/np.sqrt(mem+1e-8)

def sample(self, h, seed_ix, n):
    """
    sample a sequence of integers from the model
    h is memory state, seed_ix is seed letter from the first time step
    """
    x = np.zeros((self.vocab_size, 1))
    x[seed_ix] = 1
    ixes = []
    for t in range(n):
        h = np.tanh(np.dot(self.U, x) + np.dot(self.W, h) + self.b)
        y = np.dot(self.V, h) + self.c
        p = np.exp(y)/np.sum(np.exp(y))
        ix = np.random.choice(range(self.vocab_size), p = p.ravel())
        x = np.zeros((self.vocab_size, 1))
        x[ix] = 1
        ixes.append(ix)
    return ixes

def train(self, data_reader):
    iter_num = 0
    threshold = 0.01
    smooth_loss = -np.log(1.0/data_reader.vocab_size)*self.seq_length
    while (smooth_loss > threshold):
        if data_reader.just_started():
            hprev = np.zeros((self.hidden_size,1))
            inputs, targets = data_reader.next_batch()
            xs, hs, ps = self.forward(inputs, hprev)
            dU, dW, dV, db, dc = self.backward(xs, hs, ps, targets)
            loss = self.loss(ps, targets)
            self.update_model(dU, dW, dV, db, dc)
            smooth_loss = smooth_loss*0.999 + loss*0.001
            hprev = hs[self.seq_length-1]
            #print every 500 epochs/iterations
            if not iter_num%500: #print every 500 epochs/iterations
                sample_ix = self.sample(hprev, inputs[0], 200)
                print( ''.join(data_reader.ix_to_char[ix] for ix in sample_ix))
                print( "\n\niter :%d, loss:%f"%(iter_num, smooth_loss))
            iter_num += 1

def predict(self, data_reader, start, n):
    #initialize input vector

```

```

x = np.zeros((self.vocab_size,1))
chars = [ch for ch in start]
ixes = []
for i in range(len(chars)):
    ix = data_reader.char_to_ix[chars[i]]
    x[ix] = 1
    ixes.append(ix)

h = np.zeros((self.hidden_size,1))
# predict next n chars
for t in range(n):
    h = np.tanh(np.dot(self.U, x) + np.dot(self.W, h) + self.b)
    y = np.dot(self.V, h) + self.c
    p = np.exp(y)/np.sum(np.exp(y))
    ix = np.random.choice(range(self.vocab_size), p = p.ravel())
    x = np.zeros((self.vocab_size,1))
    x[ix] = 1
    ixes.append(ix)
txt = ''.join(data_reader.ix_to_char[i] for i in ixes)
return txt

class DataReader:
    def __init__(self, data, seq_length):
        self.data = data

        #find unique chars
        chars = list(set(self.data))
        #create dictionary mapping for each char
        self.char_to_ix = {ch:i for (i,ch) in enumerate(chars)}
        self.ix_to_char = {i:ch for (i,ch) in enumerate(chars)}
        #total data
        self.data_size = len(self.data)
        #num of unique chars
        self.vocab_size = len(chars)
        self.pointer = 0
        self.seq_length = seq_length

    def next_batch(self):
        input_start = self.pointer
        input_end = self.pointer + self.seq_length
        inputs = [self.char_to_ix[ch] for ch in self.data[input_start:input_end]]
        targets = [self.char_to_ix[ch] for ch in self.data[input_start+1:input_end+1]]
        self.pointer += self.seq_length
        if self.pointer + self.seq_length + 1 >= self.data_size:
            # reset pointer
            self.pointer = 0
        return inputs, targets

    def just_started(self):
        return self.pointer == 0

```

```
def close(self):
    self.fb.close()

seq_length = 100
test_data = "Discuss how you might use recurrent connections to train a CMAC to output a desi
# seq_length = len(test_data) #347
# print(seq_length)
data_reader = DataReader(test_data, seq_length)
rnn = RNN(hidden_size=200, vocab_size=data_reader.vocab_size, seq_length=seq_length, learning_r
rnn.train(data_reader)

rnn.predict(data_reader, 'earn', 50)
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