

In [2]:

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import random
import datetime
from collections import deque, defaultdict

import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import tensorflow as tf
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Dense, Conv2D, Flatten, Dropout
from tensorflow.keras.optimizers import Adam
from lightgbm import LGBMClassifier, plot_importance

class Simulator:
    def __init__(self):

        self.sample_submission = pd.read_csv('module/sample_submission.csv')
        self.max_count = pd.read_csv('module/max_count.csv')
        self.stock = pd.read_csv('module/stock.csv')
        self.order = pd.read_csv('module/order.csv')

        cut = {f'BLK_{i}': 506 if i <= 2 else 400 for i in range(1,5) }

        ratio = {}

        ratio['BLK_1'] = {}
        ratio['BLK_1'][4] = 0.851
        ratio['BLK_1'][5] = 0.851
        ratio['BLK_1'][6] = 0.851

        ratio['BLK_2'] = {}
        ratio['BLK_2'][4] = 0.901
        ratio['BLK_2'][5] = 0.901
        ratio['BLK_2'][6] = 0.901

        ratio['BLK_3'] = {}
        ratio['BLK_3'][4] = 0.710
        ratio['BLK_3'][5] = 0.742
        ratio['BLK_3'][6] = 0.759

        ratio['BLK_4'] = {}
        ratio['BLK_4'][4] = 0.700
        ratio['BLK_4'][5] = 0.732
        ratio['BLK_4'][6] = 0.749

        self.cut = cut
        self.ratio = ratio

        order_dic = { }
        order = self.order

        for time, BLK_1, BLK_2, BLK_3, BLK_4 in zip(order['time'],order['BLK_1'],order['BLK_2'],ord

            order_count_time = str(pd.to_datetime(time) + pd.Timedelta(hours=18))
            order_dic[order_count_time] = {}

            order_dic[order_count_time][1] = BLK_1
            order_dic[order_count_time][2] = BLK_2
            order_dic[order_count_time][3] = BLK_3

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order_dic[order_count_time][4] = BLK_4

self.order_dic = order_dic

def make_init(self):

    PRT_dic = {time : {i : 0 for i in range(1,5)} for time in self.sample_submission['time']}
    MOL_dic = {time : {i : 0 for i in range(1,5)} for time in self.sample_submission['time']}
    BLK_dic = {time : {i : 0 for i in range(1,5)} for time in self.sample_submission['time']}

    ## 4/1일 00:00:00에 기초재고를 추가
    for i in range(1,5):
        PRT_dic['2020-04-01 00:00:00'][i] = int(self.stock[f'PRT_{i}'])
        MOL_dic['2020-04-01 00:00:00'][i] = int(self.stock[f'MOL_{i}'])
        BLK_dic['2020-04-01 00:00:00'][i] = int(self.stock[f'BLK_{i}'])

    self.PRT_dic = PRT_dic
    self.MOL_dic = MOL_dic
    self.BLK_dic = BLK_dic

def cal_prt_mol(self, machine_name):

    df = self.df

    # PRT 개수와 MOL 개수 구하기
    process_list = []
    for time, event, mol in zip(self.sample_submission['time'], df[f'Event_{machine_name}'], df[f'

        # check한 물의 개수만큼 PRT로
        try:
            val = int(event[-1])
        except:
            pass

        if event == 'PROCESS':
            process_list.append((time, mol, val))

    self.PRT_dic[time][val] += -mol

    for p_start, p_end in zip(process_list[:-48], process_list[48:]):

        p_start_time, p_start_mol, p_start_number = p_start
        p_end_time, p_end_mol, p_end_number = p_end

        self.MOL_dic[p_end_time][p_start_number] += p_start_mol * 0.975

def cal_blk(self):

    PRT_dic = self.PRT_dic
    MOL_dic = self.MOL_dic
    BLK_dic = self.BLK_dic
    order_dic = self.order_dic
    ratio = self.ratio
    cut = self.cut

    PRT_stock_dic = {time : {i : 0 for i in range(1,5)} for time in self.sample_submission['time']}
    MOL_stock_dic = {time : {i : 0 for i in range(1,5)} for time in self.sample_submission['time']}
    BLK_stock_dic = {time : {i : 0 for i in range(1,5)} for time in self.sample_submission['time']}

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blk_diffs = []
previous_time = [self.sample_submission['time'][0]] + list(self.sample_submission['time'])

for time, previous in zip(self.sample_submission['time'], previous_time[:-1]):

    month = int(time[6])

    for i in range(1,5):

        if str(time) == '2020-04-01 00:00:00':
            PRT_stock_dic[time][i] = PRT_dic[time][i]
            MOL_stock_dic[time][i] = MOL_dic[time][i]
            BLK_stock_dic[time][i] = BLK_dic[time][i]

        else:
            PRT_stock_dic[time][i] = PRT_stock_dic[previous][i] + PRT_dic[time][i]
            MOL_stock_dic[time][i] = MOL_stock_dic[previous][i] + MOL_dic[time][i]
            BLK_stock_dic[time][i] = BLK_stock_dic[previous][i] + BLK_dic[time][i]

            if int(time[11:13]) == 18:

                val = order_dic[time][i]

                if val > 0:
                    mol_number = i
                    mol = MOL_stock_dic[time][i]
                    MOL_stock_dic[time][i] = 0

                    blk_gen = int(mol*ratio[f'BLK_{i}'][month]*cut[f'BLK_{i}'])
                    blk_stock = BLK_stock_dic[time][i] + blk_gen
                    blk_diff = blk_stock - val

                    BLK_stock_dic[time][i] = blk_diff
                    blk_diffs.append(blk_diff)

self.PRT_stock_dic = PRT_stock_dic
self.MOL_stock_dic = MOL_stock_dic
self.BLK_stock_dic = BLK_stock_dic
self.blk_diffs = blk_diffs

def F(self, x, a): return 1 - x/a if x < a else 0

def cal_change_stop_time(self):

    df = self.df

    change_type = {'A': '', 'B': ''}
    change_num = 0
    change_time = 0
    stop_num = 0
    stop_time = 0
    previous_event = {'A': '', 'B': ''}
    for row in df.iterrows():
        for machine in ['A', 'B']:
            if 'CHANGE' in row[1][f'Event_{machine}']:
                change_time += 1
                if change_type[machine] != row[1][f'Event_{machine}'][-2:]:
                    change_num += 1
                    change_type[machine] = row[1][f'Event_{machine}'][-2:]

            if 'STOP' == row[1][f'Event_{machine}']:

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        stop_time += 1
        if previous_event[machine] != 'STOP':
            stop_num += 1

        previous_event[machine] = row[1][f'Event_{machine}']
    return change_time, change_num, stop_time, stop_num

def cal_score(self):

    p = 0
    q = 0
    for item in self.blk_diffs:
        if item < 0:
            p = p + abs(item)
        if item > 0:
            q = q + abs(item)

    N = sum([sum(self.order[f'BLK_{i}']) for i in range(1,5)])
    M = len(self.df) * 2

    c, c_n, s, s_n = self.cal_change_stop_time()

    self.score = 50*self.F(p, 10*N)+20*self.F(q, 10*N)+W
                20*self.F(c, M)/(1+0.1*c_n) + 10*self.F(s, M)/(1 + 0.1*s_n)

    self.p = p
    self.q = q
    self.N = N
    self.M = M
    self.c = c
    self.c_n = c_n
    self.s = s
    self.s_n = s_n

    return self.score

def make_stock_df(self):

    PRT_I = {i : [] for i in range(1,5)}
    MOL_I = {i : [] for i in range(1,5)}
    BLK_I = {i : [] for i in range(1,5)}

    for time in self.sample_submission['time']:
        for i in range(1,5):
            PRT_I[i].append(self.PRT_stock_dic[time][i])
            MOL_I[i].append(self.MOL_stock_dic[time][i])
            BLK_I[i].append(self.BLK_stock_dic[time][i])

    df_stock = pd.DataFrame(index = self.sample_submission['time'])

    for i in range(1,5):
        df_stock[f'PRT_{i}'] = PRT_I[i]
    for i in range(1,5):
        df_stock[f'MOL_{i}'] = MOL_I[i]
    for i in range(1,5):
        df_stock[f'BLK_{i}'] = BLK_I[i]

    self.df_stock = df_stock

def get_score(self,df):

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self.df = df
self.make_init()
self.cal_prt_mol('A')
self.cal_prt_mol('B')
self.cal_blk()
self.cal_score()
self.make_stock_df()

return self.score, self.df_stock

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submission_ini = pd.read_csv('module/sample_submission.csv')
order_ini = pd.read_csv('module/order.csv')

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order = order_ini.copy()
for i in range(35):
    order.loc[91+i,:] = ['0000-00-00', 0, 0, 0, 0]

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class Env:
    def __init__(self):
        # Event 종류
        self.mask = np.zeros([5], np.bool) # 가능한 이벤트 검사용 마스크
        self.event_map = {0:'CHECK_1', 1:'CHECK_2', 2:'CHECK_3', 3:'CHECK_4', 4:'PROCESS'}
        self.simulator = Simulator()

        self.sample_submission = pd.read_csv('module/sample_submission.csv')
        self.max_count = pd.read_csv('module/max_count.csv')
        self.stock = pd.read_csv('module/stock.csv')
        self.order = pd.read_csv('module/order.csv')

        cut = np.zeros(4) # blk_type

        cut[0] = 506
        cut[1] = 506
        cut[2] = 400
        cut[3] = 400

        ratio = np.zeros((3, 4)) # month, blk_type

        ratio[0][0] = 0.851
        ratio[1][0] = 0.851
        ratio[2][0] = 0.851

        ratio[0][1] = 0.901
        ratio[1][1] = 0.901
        ratio[2][1] = 0.901

        ratio[0][2] = 0.710
        ratio[1][2] = 0.742
        ratio[2][2] = 0.759

        ratio[0][3] = 0.700
        ratio[1][3] = 0.732
        ratio[2][3] = 0.749

        self.cut = cut
        self.ratio = ratio

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self.order = self.order.values[:, 1:]

self.reset()

def done(self):
    return self.s >= self.s_max

def state(self):
    inputs = np.array(order.loc[self.s//24:(self.s//24+30), 'BLK_1':'BLK_4']).reshape(-1)
    inputs = np.append(inputs, self.s%24)
    return inputs

def states(self):
    all_states = np.zeros((self.submission.shape[0] + 1, 125))

    for i in range(self.submission.shape[0] + 1):
        all_states[i][0:124] = np.array(order.loc[i//24:(i//24+30), 'BLK_1':'BLK_4']).reshape(-1)
        all_states[i][124] = i % 24

    return all_states

def reset(self):
    self.mask = np.zeros([5], np.bool)
    self.simulator = Simulator()

    self.submission = submission_ini.copy()
    self.submission.loc[:, 'PRT_1':'PRT_4'] = 0
    self.s = 0
    self.s_max = self.submission.shape[0]

    self.check_time = 28
    self.process = 0
    self.process_mode = 0
    self.process_time = 0
    self.last_score = 30

    self.global_process_time = 0

    self.PRT_stock = np.zeros(4)
    self.MOL_stock = np.zeros(4)
    self.BLK_stock = np.zeros(4)

    for i in range(4):
        self.PRT_stock[i] = int(self.stock[f'PRT_{i + 1}'])
        self.MOL_stock[i] = int(self.stock[f'MOL_{i + 1}'])
        self.BLK_stock[i] = int(self.stock[f'BLK_{i + 1}'])

    self.process_A = np.zeros((self.submission.shape[0], 4))
    self.process_B = np.zeros((self.submission.shape[0], 4))

    self.update_mask()

def step(self, actions):
    day = self.s // 24

    if day <= 30:
        month = 0
    elif day <= 61:

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        month = 1
    else:
        month = 2

    action1, action2 = actions

    out1 = self.event_map[action1]
    out2 = action2 / 2

    if out1 == 'CHECK_1':
        if self.process == 1:
            self.process = 0
            self.check_time = 28
        self.check_time -= 1
        self.process_mode = 0
        if self.check_time == 0:
            self.process = 1
            self.process_time = 0
    elif out1 == 'CHECK_2':
        if self.process == 1:
            self.process = 0
            self.check_time = 28
        self.check_time -= 1
        self.process_mode = 1
        if self.check_time == 0:
            self.process = 1
            self.process_time = 0
    elif out1 == 'CHECK_3':
        if self.process == 1:
            self.process = 0
            self.check_time = 28
        self.check_time -= 1
        self.process_mode = 2
        if self.check_time == 0:
            self.process = 1
            self.process_time = 0
    elif out1 == 'CHECK_4':
        if self.process == 1:
            self.process = 0
            self.check_time = 28
        self.check_time -= 1
        self.process_mode = 3
        if self.check_time == 0:
            self.process = 1
            self.process_time = 0
    elif out1 == 'PROCESS':
        self.process_time += 1
        self.global_process_time += 1
        if self.global_process_time >= 48:
            for i in range(4):
                self.MOL_stock[i] += self.process_A[self.global_process_time - 48][i] * 0.975
                self.MOL_stock[i] += self.process_B[self.global_process_time - 48][i] * 0.975
        if self.process_time == 140:
            self.process = 0
            self.check_time = 28

    self.submission.loc[self.s, 'Event_A'] = out1
    if self.submission.loc[self.s, 'Event_A'] == 'PROCESS' and self.s >= 24*23:
        self.submission.loc[self.s, 'MOL_A'] = out2
        self.process_A[self.global_process_time][self.process_mode] += out2
        self.process_B[self.global_process_time][self.process_mode] += out2

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else:
    self.submission.loc[self.s, 'MOL_A'] = 0

self.submission.loc[self.s, 'Event_B'] = self.submission.loc[self.s, 'Event_A']
self.submission.loc[self.s, 'MOL_B'] = self.submission.loc[self.s, 'MOL_A']

self.update_mask()
self.s += 1

if self.s % 24 == 18:
    blk_diff = 0
    for i in range(4):
        if self.order[day][i] != 0:

            self.BLK_stock[i] += int(self.MOL_stock[i] * self.cut[i] * self.ratio[month][i])
            self.MOL_stock[i] = 0
            self.BLK_stock[i] -= self.order[day][i]

            if self.BLK_stock[i] < 0:
                blk_diff += abs(self.BLK_stock[i]) * 5
            elif self.BLK_stock[i] > 0:
                blk_diff += abs(self.BLK_stock[i]) * 2

        if blk_diff != 0:
            blk_diff -= 500000
        reward = -(blk_diff / 50000000)

        # print(f"{month+4}/{(day % 30)+1}", self.s, self.s_max)
        # print("MOL_STOCK", self.MOL_stock)
        # print("BLK_STOCK", self.BLK_stock)
        # print("blk_diff: ", blk_diff)
        # print(reward)
        # print()

    else:
        reward = 0

    return reward

def get_score(self):
    score, stock = self.simulator.get_score(self.submission)
    return score

def update_mask(self):
    self.mask[:] = False
    if self.process == 0:
        if self.check_time == 28:
            self.mask[:4] = True
        if self.check_time < 28:
            self.mask[self.process_mode] = True
    if self.process == 1:
        self.mask[4] = True
        if self.process_time > 98:
            self.mask[:4] = True

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모델 변수 설정

input_length = 125

입력 데이터 길이

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output_length_1 = 5
output_length_2 = 12

alpha = 0.01
alpha_decay = 0.01
dropout = 0.3

# 모델 생성
model1 = Sequential()
model1.add(Dense(50, input_dim=input_length, activation='relu'))
# model1.add(Dropout(dropout))
model1.add(Dense(50, activation='relu'))
# model1.add(Dropout(dropout))
model1.add(Dense(50, activation='relu'))
# model1.add(Dropout(dropout))
model1.add(Dense(output_length_1, activation='linear'))

model1.compile(loss='mse', optimizer=Adam(lr=alpha, decay=alpha_decay))

model2 = Sequential()
model2.add(Dense(50, input_dim=input_length, activation='relu'))
# model2.add(Dropout(dropout))
model2.add(Dense(50, activation='relu'))
# model2.add(Dropout(dropout))
model2.add(Dense(50, activation='relu'))
# model2.add(Dropout(dropout))
model2.add(Dense(output_length_2, activation='linear'))

model2.compile(loss='mse', optimizer=Adam(lr=alpha, decay=alpha_decay))

# 학습 변수 설정
EPOCHS = 500
CHECK_EPOCH = 1
THRESHOLD = 90

batch_size = 2000
memory_size = 50000
gamma = 0.98

epsilon = 1

epsilon_min = 0.001
epsilon_decay = 0.95

memory = deque(maxlen=memory_size)

score_history = []

scores = deque(maxlen=CHECK_EPOCH)
avg_scores = []

#%% start train
for e in tf.range(EPOCHS):
    env = Env()
    if e % CHECK_EPOCH == 0:
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print()
print(f'epoch {e} start, epsilon: ', epsilon, ' time: ', datetime.datetime.now())

done = False
i = 0
# before_time = datetime.datetime.now()

states = env.states()
predicts1 = model1.predict(states)
predicts2 = model2.predict(states)

reward_sum = 0
action_dict = defaultdict(int)
out1_dict = defaultdict(int)
mask_dict = defaultdict(int)

while not done:

    # if i % 500 == 0:
    #     print(i, ' STEP! ', datetime.datetime.now())
    #     print('TIME: ', datetime.datetime.now() - before_time)
    #     print('Epsilon: ', epsilon1)
    #     before_time = datetime.datetime.now()

    # action 선택
    if np.random.random() <= epsilon:
        out1 = np.random.rand(output_length_1)
    else:
        out1 = predicts1[i]

    if np.random.random() <= epsilon:
        out2 = np.random.rand(output_length_2)
    else:
        out2 = predicts2[i]

    env.update_mask()

    action1 = np.argmax(out1 * env.mask)
    action2 = np.argmax(out2)

    # print(action1)
    action_dict[action1] += 1
    out1_dict[np.argmax(out1)] += 1
    mask_dict[tuple(env.mask)] += 1

    reward = env.step((action1, action2))
    reward_sum += reward

    done = env.done()

    # memory에 저장
    memory.append((states[i][np.newaxis, :], (action1, action2), reward, states[i + 1][np.newaxis, :]))

    i += 1

epsilon = max(epsilon_min, epsilon_decay * epsilon)

score = env.get_score()
s = env.simulator

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print('부족분 점수: ', 50 * s.F(s.p, 10*s.N))
print('추가분 점수: ', 20 * s.F(s.q, 10*s.N))
print('기타 점수: ', 20*s.F(s.c, s.M)/(1+0.1*s.c_n) + 10*s.F(s.s, s.M)/(1 + 0.1*s.s_n))

scores.append(score)

mean_score = np.average(scores)
avg_scores.append(mean_score)

score_history.append([e, score])

# early-stop 확인 / 현재 상태
if mean_score >= THRESHOLD and e >= CHECK_EPOCH:
    print(f'Ran {e + 1} times. Solved after {e-CHECK_EPOCH} trials!')
    break
if e % CHECK_EPOCH == 0:
    print(f'[Episode {e + 1}] - Mean score over last {CHECK_EPOCH} times:{mean_score}')

# replay
x_batch1, y_batch1 = [], []
x_batch2, y_batch2 = [], []

minibatch = random.sample(memory, min(len(memory), batch_size))

state = minibatch[0][0]
states = np.empty((batch_size, state.shape[1]))
next_states = np.empty((batch_size, state.shape[1]))

for i, (state, actions, reward, next_state, done) in enumerate(minibatch):
    states[i] = np.squeeze(state)
    next_states[i] = np.squeeze(next_state)

y_targets1 = model1.predict(states)
y_targets2 = model2.predict(states)

predicts1 = model1.predict(next_states)
predicts2 = model2.predict(next_states)

for i, (state, actions, reward, next_state, done) in enumerate(minibatch):
    action1, action2 = actions

    y_targets1[i][action1] = reward if done else reward + gamma * np.max(predicts1[i])
    x_batch1.append(state[0])
    y_batch1.append(y_targets1[i])

    y_targets2[i][action2] = reward if done else reward + gamma * np.max(predicts2[i])
    x_batch2.append(state[0])
    y_batch2.append(y_targets2[i])

model1.fit(np.array(x_batch1), np.array(y_batch1), batch_size=len(minibatch), verbose=0)
model2.fit(np.array(x_batch2), np.array(y_batch2), batch_size=len(minibatch), verbose=0)

env.reset()

#%% show graph
score_history = np.array(score_history)

plt.plot(score_history[:,0], score_history[:,1], '-o', label='score')

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plt.legend()
plt.xlim(0, EPOCHS)
plt.ylim(bottom=0)
plt.xlabel('Epochs')
plt.ylabel('Score')
plt.show()

env = Env()
done = False

while not env.done():
    state = env.state()[np.newaxis, :]
    # action 선택
    out1 = model1.predict(state)
    out2 = model2.predict(state)

    action1 = np.argmax(out1 * env.mask)
    action2 = np.argmax(out2)

    reward = env.step((action1, action2))

# 재고 계산
simulator = Simulator()
_, df_stock = simulator.get_score(env.submission)

# PRT 개수 계산
PRTs = df_stock[['PRT_1', 'PRT_2', 'PRT_3', 'PRT_4']].values
PRTs = (PRTs[:-1] - PRTs[1:])[24*23:]
PRTs = np.ceil(PRTs * 1.1)
PAD = np.zeros((24*23+1, 4))
PRTs = np.append(PRTs, PAD, axis=0).astype(int)

# Submission 파일에 PRT 입력
env.submission.loc[:, 'PRT_1':'PRT_4'] = PRTs
env.submission.to_csv('submission_dqn.csv', index=False)

```

epoch 0 start, epsilon: 1 time: 2020-06-29 01:39:04.501759
 부족분 점수: 45.092702705276636
 추가분 점수: 6.783113671755836
 기타 점수: 30.0
 [Episode 1] - Mean score over last 1 times:81.87581637703246

epoch 1 start, epsilon: 0.95 time: 2020-06-29 01:39:19.390025
 부족분 점수: 29.23554483864159
 추가분 점수: 0
 기타 점수: 30.0
 [Episode 2] - Mean score over last 1 times:59.23554483864159

epoch 2 start, epsilon: 0.9025 time: 2020-06-29 01:39:32.308480
 부족분 점수: 25.968814005664377
 추가분 점수: 0
 기타 점수: 30.0
 [Episode 3] - Mean score over last 1 times:55.96881400566438

epoch 3 start, epsilon: 0.8573749999999999 time: 2020-06-29 01:39:44.986575
 부족분 점수: 33.29719549393978

추가분 점수: 0
기타 점수: 30.0
[Episode 4] - Mean score over last 1 times:63.29719549393978

epoch 4 start, epsilon: 0.8145062499999999 time: 2020-06-29 01:39:58.128432
부족분 점수: 39.14572378031528
추가분 점수: 5.584304301917955
기타 점수: 30.0
[Episode 5] - Mean score over last 1 times:74.73002808223323

epoch 5 start, epsilon: 0.7737809374999999 time: 2020-06-29 01:40:11.700101
부족분 점수: 45.059958532547405
추가분 점수: 4.051252763754412
기타 점수: 30.0
[Episode 6] - Mean score over last 1 times:79.11121129630182

epoch 6 start, epsilon: 0.7350918906249998 time: 2020-06-29 01:40:27.008250
부족분 점수: 38.16962578219972
추가분 점수: 5.966505308774002
기타 점수: 30.0
[Episode 7] - Mean score over last 1 times:74.13613109097372

epoch 7 start, epsilon: 0.6983372960937497 time: 2020-06-29 01:40:40.622264
부족분 점수: 46.430584104921444
추가분 점수: 1.833611001624229
기타 점수: 30.0
[Episode 8] - Mean score over last 1 times:78.26419510654567

epoch 8 start, epsilon: 0.6634204312890623 time: 2020-06-29 01:40:53.704303
부족분 점수: 39.53628217775092
추가분 점수: 0
기타 점수: 30.0
[Episode 9] - Mean score over last 1 times:69.53628217775092

epoch 9 start, epsilon: 0.6302494097246091 time: 2020-06-29 01:41:07.731267
부족분 점수: 48.02023635034806
추가분 점수: 0
기타 점수: 30.0
[Episode 10] - Mean score over last 1 times:78.02023635034806

epoch 10 start, epsilon: 0.5987369392383786 time: 2020-06-29 01:41:21.632159
부족분 점수: 26.38519509333556
추가분 점수: 0
기타 점수: 30.0
[Episode 11] - Mean score over last 1 times:56.38519509333556

epoch 11 start, epsilon: 0.5688000922764596 time: 2020-06-29 01:41:36.718247
부족분 점수: 36.95996538337118
추가분 점수: 3.4285608078196472
기타 점수: 30.0
[Episode 12] - Mean score over last 1 times:70.38852619119083

epoch 12 start, epsilon: 0.5403600876626365 time: 2020-06-29 01:41:49.510228
부족분 점수: 10.385811974686977
추가분 점수: 0.137568227906939
기타 점수: 30.0
[Episode 13] - Mean score over last 1 times:40.52338020259391

epoch 13 start, epsilon: 0.5133420832795047 time: 2020-06-29 01:42:02.698250
부족분 점수: 31.56855600917089
추가분 점수: 11.687753584163598

기타 점수: 30.0

[Episode 14] - Mean score over last 1 times:73.25630959333449

epoch 14 start, epsilon: 0.48767497911552943 time: 2020-06-29 01:42:17.594246

부족분 점수: 25.435996562914063

추가분 점수: 12.047303862912251

기타 점수: 30.0

[Episode 15] - Mean score over last 1 times:67.48330042582631

epoch 15 start, epsilon: 0.46329123015975293 time: 2020-06-29 01:42:31.415228

부족분 점수: 28.12568527438471

추가분 점수: 13.170520690255824

기타 점수: 30.0

[Episode 16] - Mean score over last 1 times:71.29620596464054

epoch 16 start, epsilon: 0.44012666865176525 time: 2020-06-29 01:42:44.789218

부족분 점수: 35.08621592752013

추가분 점수: 0

기타 점수: 30.0

[Episode 17] - Mean score over last 1 times:65.08621592752013

epoch 17 start, epsilon: 0.41812033521917696 time: 2020-06-29 01:42:57.442198

부족분 점수: 18.0164530366814

추가분 점수: 5.380182317931679

기타 점수: 30.0

[Episode 18] - Mean score over last 1 times:53.39663535461308

epoch 18 start, epsilon: 0.3972143184582181 time: 2020-06-29 01:43:10.245214

부족분 점수: 32.390117241250074

추가분 점수: 0

기타 점수: 30.0

[Episode 19] - Mean score over last 1 times:62.390117241250074

epoch 19 start, epsilon: 0.37735360253530714 time: 2020-06-29 01:43:22.717199

부족분 점수: 19.4082823694511

추가분 점수: 11.314032238194848

기타 점수: 30.0

[Episode 20] - Mean score over last 1 times:60.72231460764595

epoch 20 start, epsilon: 0.35848592240854177 time: 2020-06-29 01:43:35.863206

부족분 점수: 26.651228248250504

추가분 점수: 14.196804198233961

기타 점수: 30.0

[Episode 21] - Mean score over last 1 times:70.84803244648447

epoch 21 start, epsilon: 0.34056162628811465 time: 2020-06-29 01:43:48.529168

부족분 점수: 30.3592197188213

추가분 점수: 12.036639925925083

기타 점수: 30.0

[Episode 22] - Mean score over last 1 times:72.39585964474638

epoch 22 start, epsilon: 0.3235335449737089 time: 2020-06-29 01:44:03.237190

부족분 점수: 30.596864964733616

추가분 점수: 1.7580952620870183

기타 점수: 30.0

[Episode 23] - Mean score over last 1 times:62.35496022682064

epoch 23 start, epsilon: 0.30735686772502346 time: 2020-06-29 01:44:17.415179

부족분 점수: 13.681903042103688

추가분 점수: 0

기타 점수: 30.0

[Episode 24] - Mean score over last 1 times:43.681903042103684

epoch 24 start, epsilon: 0.2919890243387723 time: 2020-06-29 01:44:31.123686

부족분 점수: 11.27890133677083

추가분 점수: 0

기타 점수: 30.0

[Episode 25] - Mean score over last 1 times:41.27890133677083

epoch 25 start, epsilon: 0.27738957312183365 time: 2020-06-29 01:44:45.334200

부족분 점수: 20.285750010061186

추가분 점수: 14.265088785754465

기타 점수: 30.0

[Episode 26] - Mean score over last 1 times:64.55083879581565

epoch 26 start, epsilon: 0.263520094465742 time: 2020-06-29 01:44:59.448504

부족분 점수: 13.749806072533326

추가분 점수: 16.131228604616226

기타 점수: 30.0

[Episode 27] - Mean score over last 1 times:59.88103467714955

epoch 27 start, epsilon: 0.25034408974245487 time: 2020-06-29 01:45:12.796075

부족분 점수: 29.211969402930738

추가분 점수: 0

기타 점수: 30.0

[Episode 28] - Mean score over last 1 times:59.211969402930734

epoch 28 start, epsilon: 0.2378268852553321 time: 2020-06-29 01:45:25.996291

부족분 점수: 31.00829072561283

추가분 점수: 9.149299725997771

기타 점수: 30.0

[Episode 29] - Mean score over last 1 times:70.1575904516106

epoch 29 start, epsilon: 0.2259355409925655 time: 2020-06-29 01:45:39.075315

부족분 점수: 30.68462309563228

추가분 점수: 0

기타 점수: 30.0

[Episode 30] - Mean score over last 1 times:60.684623095632276

epoch 30 start, epsilon: 0.2146387639429372 time: 2020-06-29 01:45:51.119109

부족분 점수: 19.171222362071873

추가분 점수: 6.493956682517772

기타 점수: 30.0

[Episode 31] - Mean score over last 1 times:55.66517904458965

epoch 31 start, epsilon: 0.20390682574579033 time: 2020-06-29 01:46:03.552859

부족분 점수: 12.661108795075272

추가분 점수: 6.16313808280772

기타 점수: 30.0

[Episode 32] - Mean score over last 1 times:48.82424687788299

epoch 32 start, epsilon: 0.1937114844585008 time: 2020-06-29 01:46:16.478294

부족분 점수: 19.89113334437248

추가분 점수: 0

기타 점수: 30.0

[Episode 33] - Mean score over last 1 times:49.89113334437248

epoch 33 start, epsilon: 0.18402591023557577 time: 2020-06-29 01:46:29.931938

부족분 점수: 47.34631805087612

추가분 점수: 0

기타 점수: 30.0

[Episode 34] - Mean score over last 1 times:77.34631805087612

epoch 34 start, epsilon: 0.17482461472379698 time: 2020-06-29 01:46:42.847400
부족분 점수: 28.98139770936716
추가분 점수: 0
기타 점수: 30.0
[Episode 35] - Mean score over last 1 times:58.98139770936716

epoch 35 start, epsilon: 0.16608338398760714 time: 2020-06-29 01:46:55.709056
부족분 점수: 12.017433964049456
추가분 점수: 14.906355997681167
기타 점수: 30.0
[Episode 36] - Mean score over last 1 times:56.92378996173062

epoch 36 start, epsilon: 0.15777921478822676 time: 2020-06-29 01:47:10.767955
부족분 점수: 11.016299737979029
추가분 점수: 15.299456880208584
기타 점수: 30.0
[Episode 37] - Mean score over last 1 times:56.31575661818761

epoch 37 start, epsilon: 0.14989025404881542 time: 2020-06-29 01:47:25.077953
부족분 점수: 7.7590801832088445
추가분 점수: 15.231176593653679
기타 점수: 30.0
[Episode 38] - Mean score over last 1 times:52.99025677686252

epoch 38 start, epsilon: 0.14239574134637464 time: 2020-06-29 01:47:38.862920
부족분 점수: 7.073919466876882
추가분 점수: 15.308195827879043
기타 점수: 30.0
[Episode 39] - Mean score over last 1 times:52.38211529475593

epoch 39 start, epsilon: 0.1352759542790559 time: 2020-06-29 01:47:52.082033
부족분 점수: 21.322966265376337
추가분 점수: 15.39012062058018
기타 점수: 30.0
[Episode 40] - Mean score over last 1 times:66.71308688595651

epoch 40 start, epsilon: 0.1285121565651031 time: 2020-06-29 01:48:05.646062
부족분 점수: 11.417326378467152
추가분 점수: 9.264275596044708
기타 점수: 30.0
[Episode 41] - Mean score over last 1 times:50.681601974511864

epoch 41 start, epsilon: 0.12208654873684793 time: 2020-06-29 01:48:18.412054
부족분 점수: 27.98504523540567
추가분 점수: 10.772398737605155
기타 점수: 30.0
[Episode 42] - Mean score over last 1 times:68.75744397301082

epoch 42 start, epsilon: 0.11598222130000553 time: 2020-06-29 01:48:31.811465
부족분 점수: 24.921508913904805
추가분 점수: 2.4366825669268644
기타 점수: 30.0
[Episode 43] - Mean score over last 1 times:57.35819148083167

epoch 43 start, epsilon: 0.11018311023500525 time: 2020-06-29 01:48:45.086907
부족분 점수: 30.597075404836065
추가분 점수: 0
기타 점수: 30.0
[Episode 44] - Mean score over last 1 times:60.59707540483606

epoch 44 start, epsilon: 0.10467395472325498 time: 2020-06-29 01:49:01.325542
부족분 점수: 33.26199977081997
추가분 점수: 0
기타 점수: 30.0
[Episode 45] - Mean score over last 1 times:63.26199977081997

epoch 45 start, epsilon: 0.09944025698709223 time: 2020-06-29 01:49:15.625532
부족분 점수: 43.19476031793966
추가분 점수: 0
기타 점수: 30.0
[Episode 46] - Mean score over last 1 times:73.19476031793965

epoch 46 start, epsilon: 0.09446824413773762 time: 2020-06-29 01:49:31.238474
부족분 점수: 30.319656979560893
추가분 점수: 0
기타 점수: 30.0
[Episode 47] - Mean score over last 1 times:60.31965697956089

epoch 47 start, epsilon: 0.08974483193085074 time: 2020-06-29 01:49:44.859509
부족분 점수: 24.2109064500045
추가분 점수: 0
기타 점수: 30.0
[Episode 48] - Mean score over last 1 times:54.2109064500045

epoch 48 start, epsilon: 0.0852575903343082 time: 2020-06-29 01:49:57.166528
부족분 점수: 34.76850052671468
추가분 점수: 0
기타 점수: 30.0
[Episode 49] - Mean score over last 1 times:64.76850052671469

epoch 49 start, epsilon: 0.08099471081759278 time: 2020-06-29 01:50:10.419546
부족분 점수: 33.76892079249592
추가분 점수: 0
기타 점수: 30.0
[Episode 50] - Mean score over last 1 times:63.76892079249592

epoch 50 start, epsilon: 0.07694497527671314 time: 2020-06-29 01:50:23.859040
부족분 점수: 39.17451260075396
추가분 점수: 1.1334961351215922
기타 점수: 30.0
[Episode 51] - Mean score over last 1 times:70.30800873587555

epoch 51 start, epsilon: 0.07309772651287748 time: 2020-06-29 01:50:39.780069
부족분 점수: 30.64756566883241
추가분 점수: 0
기타 점수: 30.0
[Episode 52] - Mean score over last 1 times:60.647565668832414

epoch 52 start, epsilon: 0.0694428401872336 time: 2020-06-29 01:50:54.600479
부족분 점수: 26.414698181275252
추가분 점수: 0
기타 점수: 30.0
[Episode 53] - Mean score over last 1 times:56.414698181275256

epoch 53 start, epsilon: 0.0659706981778719 time: 2020-06-29 01:51:07.359531
부족분 점수: 36.14143325991995
추가분 점수: 2.790090452378633
기타 점수: 30.0
[Episode 54] - Mean score over last 1 times:68.93152371229858

epoch 54 start, epsilon: 0.0626721632689783 time: 2020-06-29 01:51:20.785504
부족분 점수: 37.452802278774456
추가분 점수: 0
기타 점수: 30.0
[Episode 55] - Mean score over last 1 times:67.45280227877446

epoch 55 start, epsilon: 0.059538555105529384 time: 2020-06-29 01:51:34.226462
부족분 점수: 33.809179366547646
추가분 점수: 0
기타 점수: 30.0
[Episode 56] - Mean score over last 1 times:63.809179366547646

epoch 56 start, epsilon: 0.05656162735025291 time: 2020-06-29 01:51:47.998789
부족분 점수: 27.726468111565815
추가분 점수: 8.088088076402354
기타 점수: 30.0
[Episode 57] - Mean score over last 1 times:65.81455618796817

epoch 57 start, epsilon: 0.053733545982740265 time: 2020-06-29 01:52:00.352467
부족분 점수: 24.763224163562036
추가분 점수: 9.49567184615569
기타 점수: 30.0
[Episode 58] - Mean score over last 1 times:64.25889600971772

epoch 58 start, epsilon: 0.05104686868360325 time: 2020-06-29 01:52:14.992086
부족분 점수: 26.804370272585988
추가분 점수: 12.638527496841094
기타 점수: 30.0
[Episode 59] - Mean score over last 1 times:69.44289776942708

epoch 59 start, epsilon: 0.04849452524942309 time: 2020-06-29 01:52:28.569076
부족분 점수: 24.501350656803528
추가분 점수: 12.517600319254532
기타 점수: 30.0
[Episode 60] - Mean score over last 1 times:67.01895097605805

epoch 60 start, epsilon: 0.04606979898695193 time: 2020-06-29 01:52:42.509083
부족분 점수: 22.061376007923606
추가분 점수: 8.731065843789544
기타 점수: 30.0
[Episode 61] - Mean score over last 1 times:60.79244185171315

epoch 61 start, epsilon: 0.04376630903760433 time: 2020-06-29 01:52:56.616080
부족분 점수: 22.649468538897473
추가분 점수: 7.812023226443074
기타 점수: 30.0
[Episode 62] - Mean score over last 1 times:60.46149176534055

epoch 62 start, epsilon: 0.041577993585724116 time: 2020-06-29 01:53:13.312039
부족분 점수: 37.41923631440427
추가분 점수: 0
기타 점수: 30.0
[Episode 63] - Mean score over last 1 times:67.41923631440427

epoch 63 start, epsilon: 0.03949909390643791 time: 2020-06-29 01:53:26.821039
부족분 점수: 43.150904293377465
추가분 점수: 0
기타 점수: 30.0
[Episode 64] - Mean score over last 1 times:73.15090429337747

epoch 64 start, epsilon: 0.03752413921111601 time: 2020-06-29 01:53:40.013017

부족분 점수: 46.78294685573302

추가분 점수: 0

기타 점수: 30.0

[Episode 65] - Mean score over last 1 times:76.78294685573303

epoch 65 start, epsilon: 0.03564793225056021 time: 2020-06-29 01:53:54.465035

부족분 점수: 36.65439713826038

추가분 점수: 0

기타 점수: 30.0

[Episode 66] - Mean score over last 1 times:66.65439713826038

epoch 66 start, epsilon: 0.0338655356380322 time: 2020-06-29 01:54:09.688055

부족분 점수: 26.212572766961706

추가분 점수: 0

기타 점수: 30.0

[Episode 67] - Mean score over last 1 times:56.212572766961706

epoch 67 start, epsilon: 0.032172258856130585 time: 2020-06-29 01:54:23.663039

부족분 점수: 36.87410428551284

추가분 점수: 0.7001597194295806

기타 점수: 30.0

[Episode 68] - Mean score over last 1 times:67.57426400494242

epoch 68 start, epsilon: 0.030563645913324056 time: 2020-06-29 01:54:38.349017

부족분 점수: 23.947154342915372

추가분 점수: 2.670005035201868

기타 점수: 30.0

[Episode 69] - Mean score over last 1 times:56.617159378117236

epoch 69 start, epsilon: 0.029035463617657853 time: 2020-06-29 01:54:52.406045

부족분 점수: 24.448705301831016

추가분 점수: 5.539394233572539

기타 점수: 30.0

[Episode 70] - Mean score over last 1 times:59.988099535403556

epoch 70 start, epsilon: 0.027583690436774957 time: 2020-06-29 01:55:05.760985

부족분 점수: 21.135487174981403

추가분 점수: 8.356486147972264

기타 점수: 30.0

[Episode 71] - Mean score over last 1 times:59.49197332295367

epoch 71 start, epsilon: 0.02620450591493621 time: 2020-06-29 01:55:20.779009

부족분 점수: 17.36820382153082

추가분 점수: 4.0859234618594975

기타 점수: 30.0

[Episode 72] - Mean score over last 1 times:51.45412728339032

epoch 72 start, epsilon: 0.0248942806191894 time: 2020-06-29 01:55:35.703309

부족분 점수: 16.873780177033886

추가분 점수: 3.7591274938304187

기타 점수: 30.0

[Episode 73] - Mean score over last 1 times:50.632907670864306

epoch 73 start, epsilon: 0.023649566588229927 time: 2020-06-29 01:55:49.378393

부족분 점수: 17.193209819841766

추가분 점수: 3.5104124841056272

기타 점수: 30.0

[Episode 74] - Mean score over last 1 times:50.70362230394739

epoch 74 start, epsilon: 0.022467088258818428 time: 2020-06-29 01:56:04.031034

부족분 점수: 20.123251849492007

추가분 점수: 1.9858891462982675

기타 점수: 30.0

[Episode 75] - Mean score over last 1 times:52.10914099579027

epoch 75 start, epsilon: 0.021343733845877507 time: 2020-06-29 01:56:16.092055

부족분 점수: 16.90339232517266

추가분 점수: 0

기타 점수: 30.0

[Episode 76] - Mean score over last 1 times:46.90339232517266

epoch 76 start, epsilon: 0.02027654715358363 time: 2020-06-29 01:56:30.733456

부족분 점수: 17.50289316739389

추가분 점수: 0

기타 점수: 30.0

[Episode 77] - Mean score over last 1 times:47.50289316739389

epoch 77 start, epsilon: 0.019262719795904448 time: 2020-06-29 01:56:44.651286

부족분 점수: 17.30899181372641

추가분 점수: 0

기타 점수: 30.0

[Episode 78] - Mean score over last 1 times:47.30899181372641

epoch 78 start, epsilon: 0.018299583806109226 time: 2020-06-29 01:56:57.659311

부족분 점수: 16.95004551343238

추가분 점수: 0

기타 점수: 30.0

[Episode 79] - Mean score over last 1 times:46.95004551343238

epoch 79 start, epsilon: 0.017384604615803764 time: 2020-06-29 01:57:12.289301

부족분 점수: 22.064933520896396

추가분 점수: 0.9412786094855341

기타 점수: 30.0

[Episode 80] - Mean score over last 1 times:53.006212130381925

epoch 80 start, epsilon: 0.016515374385013576 time: 2020-06-29 01:57:26.956278

부족분 점수: 17.420099579642056

추가분 점수: 1.6732574868290606

기타 점수: 30.0

[Episode 81] - Mean score over last 1 times:49.093357066471114

epoch 81 start, epsilon: 0.015689605665762895 time: 2020-06-29 01:57:40.361283

부족분 점수: 26.11284873534715

추가분 점수: 1.7043006276644856

기타 점수: 30.0

[Episode 82] - Mean score over last 1 times:57.81714936301164

epoch 82 start, epsilon: 0.01490512538247475 time: 2020-06-29 01:57:54.203245

부족분 점수: 20.836308935901172

추가분 점수: 0.4948457535491424

기타 점수: 30.0

[Episode 83] - Mean score over last 1 times:51.331154689450315

epoch 83 start, epsilon: 0.014159869113351011 time: 2020-06-29 01:58:07.861263

부족분 점수: 23.974574534658565

추가분 점수: 0

기타 점수: 30.0

[Episode 84] - Mean score over last 1 times:53.974574534658565

epoch 84 start, epsilon: 0.01345187565768346 time: 2020-06-29 01:58:21.632227

부족분 점수: 22.745118941667542

추가분 점수: 0
기타 점수: 30.0
[Episode 85] - Mean score over last 1 times:52.74511894166754

epoch 85 start, epsilon: 0.012779281874799287 time: 2020-06-29 01:58:35.027245
부족분 점수: 20.520174139952807
추가분 점수: 0
기타 점수: 30.0
[Episode 86] - Mean score over last 1 times:50.52017413995281

epoch 86 start, epsilon: 0.012140317781059323 time: 2020-06-29 01:58:49.502247
부족분 점수: 19.582732606203894
추가분 점수: 0
기타 점수: 30.0
[Episode 87] - Mean score over last 1 times:49.58273260620389

epoch 87 start, epsilon: 0.011533301892006355 time: 2020-06-29 01:59:03.223222
부족분 점수: 22.098084749298252
추가분 점수: 0
기타 점수: 30.0
[Episode 88] - Mean score over last 1 times:52.09808474929825

epoch 88 start, epsilon: 0.010956636797406038 time: 2020-06-29 01:59:17.076493
부족분 점수: 21.52515004993728
추가분 점수: 0
기타 점수: 30.0
[Episode 89] - Mean score over last 1 times:51.52515004993728

epoch 89 start, epsilon: 0.010408804957535735 time: 2020-06-29 01:59:30.570211
부족분 점수: 20.4912378578365
추가분 점수: 0
기타 점수: 30.0
[Episode 90] - Mean score over last 1 times:50.491237857836495

epoch 90 start, epsilon: 0.009888364709658948 time: 2020-06-29 01:59:45.169205
부족분 점수: 27.014630656115372
추가분 점수: 5.51152643419538
기타 점수: 30.0
[Episode 91] - Mean score over last 1 times:62.526157090310754

epoch 91 start, epsilon: 0.009393946474176 time: 2020-06-29 01:59:59.505533
부족분 점수: 19.957143949939216
추가분 점수: 0.8585182006111669
기타 점수: 30.0
[Episode 92] - Mean score over last 1 times:50.81566215055038

epoch 92 start, epsilon: 0.0089242491504672 time: 2020-06-29 02:00:13.728437
부족분 점수: 22.32476560505523
추가분 점수: 3.171983018558975
기타 점수: 30.0
[Episode 93] - Mean score over last 1 times:55.49674862361421

epoch 93 start, epsilon: 0.008478036692943839 time: 2020-06-29 02:00:30.638712
부족분 점수: 23.634463391563287
추가분 점수: 0
기타 점수: 30.0
[Episode 94] - Mean score over last 1 times:53.63446339156329

epoch 94 start, epsilon: 0.008054134858296647 time: 2020-06-29 02:00:45.743361
부족분 점수: 22.69352425114813
추가분 점수: 0

기타 점수: 30.0

[Episode 95] - Mean score over last 1 times:52.69352425114813

epoch 95 start, epsilon: 0.0076514281153818135 time: 2020-06-29 02:01:02.556356

부족분 점수: 25.838086156328423

추가분 점수: 0

기타 점수: 30.0

[Episode 96] - Mean score over last 1 times:55.83808615632842

epoch 96 start, epsilon: 0.0072688567096127225 time: 2020-06-29 02:01:20.209325

부족분 점수: 31.473374104439124

추가분 점수: 0

기타 점수: 30.0

[Episode 97] - Mean score over last 1 times:61.473374104439124

epoch 97 start, epsilon: 0.006905413874132086 time: 2020-06-29 02:01:37.266334

부족분 점수: 32.020913138006

추가분 점수: 0

기타 점수: 30.0

[Episode 98] - Mean score over last 1 times:62.020913138006

epoch 98 start, epsilon: 0.006560143180425482 time: 2020-06-29 02:01:52.117357

부족분 점수: 31.286807433174513

추가분 점수: 0

기타 점수: 30.0

[Episode 99] - Mean score over last 1 times:61.286807433174516

epoch 99 start, epsilon: 0.0062321360214042075 time: 2020-06-29 02:02:09.423305

부족분 점수: 28.63470762496686

추가분 점수: 0

기타 점수: 30.0

[Episode 100] - Mean score over last 1 times:58.634707624966865

epoch 100 start, epsilon: 0.005920529220333997 time: 2020-06-29 02:02:27.161323

부족분 점수: 25.109110889031093

추가분 점수: 0

기타 점수: 30.0

[Episode 101] - Mean score over last 1 times:55.10911088903109

epoch 101 start, epsilon: 0.0056245027593172965 time: 2020-06-29 02:02:43.071267

부족분 점수: 22.827829582225707

추가분 점수: 0

기타 점수: 30.0

[Episode 102] - Mean score over last 1 times:52.827829582225704

epoch 102 start, epsilon: 0.005343277621351432 time: 2020-06-29 02:02:57.761063

부족분 점수: 27.370985624636912

추가분 점수: 2.8036470959419457

기타 점수: 30.0

[Episode 103] - Mean score over last 1 times:60.174632720578856

epoch 103 start, epsilon: 0.0050761137402838595 time: 2020-06-29 02:03:12.018935

부족분 점수: 16.629628184596214

추가분 점수: 6.484156625192046

기타 점수: 30.0

[Episode 104] - Mean score over last 1 times:53.11378480978826

epoch 104 start, epsilon: 0.004822308053269666 time: 2020-06-29 02:03:25.007202

부족분 점수: 17.429597033316817

추가분 점수: 8.729559891406762

기타 점수: 30.0

[Episode 105] - Mean score over last 1 times:56.159156924723575

epoch 105 start, epsilon: 0.004581192650606183 time: 2020-06-29 02:03:41.270753

부족분 점수: 17.767889482388004

추가분 점수: 7.74970592147727

기타 점수: 30.0

[Episode 106] - Mean score over last 1 times:55.51759540386527

epoch 106 start, epsilon: 0.0043521330180758735 time: 2020-06-29 02:03:53.118072

부족분 점수: 18.714633390300644

추가분 점수: 6.1778111341554105

기타 점수: 30.0

[Episode 107] - Mean score over last 1 times:54.89244452445605

epoch 107 start, epsilon: 0.0041345263671720795 time: 2020-06-29 02:04:05.526888

부족분 점수: 25.503133099831864

추가분 점수: 6.0469450394966895

기타 점수: 30.0

[Episode 108] - Mean score over last 1 times:61.550078139328555

epoch 108 start, epsilon: 0.003927800048813475 time: 2020-06-29 02:04:18.145146

부족분 점수: 30.94535991862573

추가분 점수: 0

기타 점수: 30.0

[Episode 109] - Mean score over last 1 times:60.945359918625726

epoch 109 start, epsilon: 0.0037314100463728015 time: 2020-06-29 02:04:31.521374

부족분 점수: 27.28311382536175

추가분 점수: 0

기타 점수: 30.0

[Episode 110] - Mean score over last 1 times:57.28311382536175

epoch 110 start, epsilon: 0.0035448395440541612 time: 2020-06-29 02:04:44.264297

부족분 점수: 15.614657137774978

추가분 점수: 0

기타 점수: 30.0

[Episode 111] - Mean score over last 1 times:45.61465713777498

epoch 111 start, epsilon: 0.003367597566851453 time: 2020-06-29 02:04:57.981615

부족분 점수: 15.641937548136253

추가분 점수: 0

기타 점수: 30.0

[Episode 112] - Mean score over last 1 times:45.641937548136255

epoch 112 start, epsilon: 0.00319921768850888 time: 2020-06-29 02:05:12.671332

부족분 점수: 17.13821583044119

추가분 점수: 0

기타 점수: 30.0

[Episode 113] - Mean score over last 1 times:47.13821583044119

epoch 113 start, epsilon: 0.003039256804083436 time: 2020-06-29 02:05:25.477088

부족분 점수: 16.191984966281964

추가분 점수: 0

기타 점수: 30.0

[Episode 114] - Mean score over last 1 times:46.191984966281964

epoch 114 start, epsilon: 0.0028872939638792637 time: 2020-06-29 02:05:38.533173

부족분 점수: 16.3393345115931

추가분 점수: 0

기타 점수: 30.0

[Episode 115] - Mean score over last 1 times:46.3393345115931

epoch 115 start, epsilon: 0.0027429292656853004 time: 2020-06-29 02:05:51.739372
부족분 점수: 15.735477405645264
추가분 점수: 0
기타 점수: 30.0
[Episode 116] - Mean score over last 1 times:45.73547740564526

epoch 116 start, epsilon: 0.0026057828024010354 time: 2020-06-29 02:06:07.094504
부족분 점수: 15.618256124344605
추가분 점수: 0
기타 점수: 30.0
[Episode 117] - Mean score over last 1 times:45.618256124344605

epoch 117 start, epsilon: 0.0024754936622809836 time: 2020-06-29 02:06:20.958508
부족분 점수: 14.239638436254925
추가분 점수: 0
기타 점수: 30.0
[Episode 118] - Mean score over last 1 times:44.23963843625492

epoch 118 start, epsilon: 0.002351718979166934 time: 2020-06-29 02:06:34.313498
부족분 점수: 26.089594335996964
추가분 점수: 0.24734361612284594
기타 점수: 30.0
[Episode 119] - Mean score over last 1 times:56.33693795211981

epoch 119 start, epsilon: 0.0022341330302085875 time: 2020-06-29 02:06:50.070332
부족분 점수: 12.667637046428615
추가분 점수: 0
기타 점수: 30.0
[Episode 120] - Mean score over last 1 times:42.66763704642862

epoch 120 start, epsilon: 0.002122426378698158 time: 2020-06-29 02:07:04.731791
부족분 점수: 12.621690445374206
추가분 점수: 1.78728530117358
기타 점수: 30.0
[Episode 121] - Mean score over last 1 times:44.40897574654778

epoch 121 start, epsilon: 0.0020163050597632503 time: 2020-06-29 02:07:22.550489
부족분 점수: 12.621690445374206
추가분 점수: 1.3708535235507058
기타 점수: 30.0
[Episode 122] - Mean score over last 1 times:43.99254396892491

epoch 122 start, epsilon: 0.0019154898067750877 time: 2020-06-29 02:07:36.358470
부족분 점수: 12.758272216100174
추가분 점수: 5.845854621832991
기타 점수: 30.0
[Episode 123] - Mean score over last 1 times:48.604126837933165

epoch 123 start, epsilon: 0.0018197153164363333 time: 2020-06-29 02:07:52.032457
부족분 점수: 13.056708538614837
추가분 점수: 5.854260551881472
기타 점수: 30.0
[Episode 124] - Mean score over last 1 times:48.91096909049631

epoch 124 start, epsilon: 0.0017287295506145165 time: 2020-06-29 02:08:06.793489
부족분 점수: 23.874317490521747
추가분 점수: 4.676465699952965
기타 점수: 30.0
[Episode 125] - Mean score over last 1 times:58.55078319047471

epoch 125 start, epsilon: 0.0016422930730837905 time: 2020-06-29 02:08:22.090467
부족분 점수: 23.865331544541263
추가분 점수: 4.349203384368385
기타 점수: 30.0
[Episode 126] - Mean score over last 1 times:58.21453492890965

epoch 126 start, epsilon: 0.0015601784194296008 time: 2020-06-29 02:08:37.586461
부족분 점수: 24.26786966722507
추가분 점수: 4.181415957749772
기타 점수: 30.0
[Episode 127] - Mean score over last 1 times:58.44928562497484

epoch 127 start, epsilon: 0.0014821694984581207 time: 2020-06-29 02:08:52.546475
부족분 점수: 23.424608527647372
추가분 점수: 5.343549765090476
기타 점수: 30.0
[Episode 128] - Mean score over last 1 times:58.76815829273785

epoch 128 start, epsilon: 0.0014080610235352145 time: 2020-06-29 02:09:06.515503
부족분 점수: 23.424608527647372
추가분 점수: 5.343549765090476
기타 점수: 30.0
[Episode 129] - Mean score over last 1 times:58.76815829273785

epoch 129 start, epsilon: 0.0013376579723584536 time: 2020-06-29 02:09:21.842705
부족분 점수: 23.424608527647372
추가분 점수: 5.343549765090476
기타 점수: 30.0
[Episode 130] - Mean score over last 1 times:58.76815829273785

epoch 130 start, epsilon: 0.0012707750737405309 time: 2020-06-29 02:09:39.560711
부족분 점수: 23.25274194237136
추가분 점수: 5.50243787946421
기타 점수: 30.0
[Episode 131] - Mean score over last 1 times:58.75517982183557

epoch 131 start, epsilon: 0.0012072363200535043 time: 2020-06-29 02:09:56.144736
부족분 점수: 23.25274194237136
추가분 점수: 5.50243787946421
기타 점수: 30.0
[Episode 132] - Mean score over last 1 times:58.75517982183557

epoch 132 start, epsilon: 0.001146874504050829 time: 2020-06-29 02:10:10.378809
부족분 점수: 23.02085845430055
추가분 점수: 5.50243787946421
기타 점수: 30.0
[Episode 133] - Mean score over last 1 times:58.52329633376476

epoch 133 start, epsilon: 0.0010895307788482875 time: 2020-06-29 02:10:27.666702
부족분 점수: 21.417181988907807
추가분 점수: 3.9299839666146763
기타 점수: 30.0
[Episode 134] - Mean score over last 1 times:55.347165955522485

epoch 134 start, epsilon: 0.001035054239905873 time: 2020-06-29 02:10:41.940677
부족분 점수: 21.954352623266445
추가분 점수: 0
기타 점수: 30.0
[Episode 135] - Mean score over last 1 times:51.954352623266445

epoch 135 start, epsilon: 0.001 time: 2020-06-29 02:10:56.070695
부족분 점수: 26.583480359794205
추가분 점수: 0
기타 점수: 30.0
[Episode 136] - Mean score over last 1 times:56.58348035979421

epoch 136 start, epsilon: 0.001 time: 2020-06-29 02:11:12.000649
부족분 점수: 26.57764947929131
추가분 점수: 0
기타 점수: 30.0
[Episode 137] - Mean score over last 1 times:56.57764947929131

epoch 137 start, epsilon: 0.001 time: 2020-06-29 02:11:26.809502
부족분 점수: 25.937670406561065
추가분 점수: 0
기타 점수: 30.0
[Episode 138] - Mean score over last 1 times:55.93767040656107

epoch 138 start, epsilon: 0.001 time: 2020-06-29 02:11:41.444662
부족분 점수: 26.901602816272273
추가분 점수: 0
기타 점수: 30.0
[Episode 139] - Mean score over last 1 times:56.90160281627227

epoch 139 start, epsilon: 0.001 time: 2020-06-29 02:11:55.014051
부족분 점수: 26.94096279572594
추가분 점수: 0
기타 점수: 30.0
[Episode 140] - Mean score over last 1 times:56.94096279572594

epoch 140 start, epsilon: 0.001 time: 2020-06-29 02:12:11.150214
부족분 점수: 30.39054764502165
추가분 점수: 0
기타 점수: 30.0
[Episode 141] - Mean score over last 1 times:60.39054764502165

epoch 141 start, epsilon: 0.001 time: 2020-06-29 02:12:30.294218
부족분 점수: 30.043909786632174
추가분 점수: 0
기타 점수: 30.0
[Episode 142] - Mean score over last 1 times:60.04390978663217

epoch 142 start, epsilon: 0.001 time: 2020-06-29 02:12:45.818149
부족분 점수: 30.05072988922248
추가분 점수: 0
기타 점수: 30.0
[Episode 143] - Mean score over last 1 times:60.05072988922248

epoch 143 start, epsilon: 0.001 time: 2020-06-29 02:12:59.397233
부족분 점수: 27.892187388155694
추가분 점수: 0
기타 점수: 30.0
[Episode 144] - Mean score over last 1 times:57.89218738815569

epoch 144 start, epsilon: 0.001 time: 2020-06-29 02:13:14.013263
부족분 점수: 28.516057808664176
추가분 점수: 0
기타 점수: 30.0
[Episode 145] - Mean score over last 1 times:58.51605780866417

epoch 145 start, epsilon: 0.001 time: 2020-06-29 02:13:31.964214

부족분 점수: 28.390423531442977

추가분 점수: 0

기타 점수: 30.0

[Episode 146] - Mean score over last 1 times:58.39042353144298

epoch 146 start, epsilon: 0.001 time: 2020-06-29 02:13:47.701153

부족분 점수: 26.587543236224697

추가분 점수: 0

기타 점수: 30.0

[Episode 147] - Mean score over last 1 times:56.5875432362247

epoch 147 start, epsilon: 0.001 time: 2020-06-29 02:14:04.473057

부족분 점수: 27.709995413327405

추가분 점수: 0

기타 점수: 30.0

[Episode 148] - Mean score over last 1 times:57.709995413327405

epoch 148 start, epsilon: 0.001 time: 2020-06-29 02:14:19.834142

부족분 점수: 31.658632053314772

추가분 점수: 0

기타 점수: 30.0

[Episode 149] - Mean score over last 1 times:61.658632053314776

epoch 149 start, epsilon: 0.001 time: 2020-06-29 02:14:35.632039

부족분 점수: 32.229585236382604

추가분 점수: 0

기타 점수: 30.0

[Episode 150] - Mean score over last 1 times:62.229585236382604

epoch 150 start, epsilon: 0.001 time: 2020-06-29 02:14:49.961214

부족분 점수: 32.16725042034258

추가분 점수: 0

기타 점수: 30.0

[Episode 151] - Mean score over last 1 times:62.16725042034258

epoch 151 start, epsilon: 0.001 time: 2020-06-29 02:15:04.623157

부족분 점수: 31.217979695141416

추가분 점수: 0

기타 점수: 30.0

[Episode 152] - Mean score over last 1 times:61.217979695141416

epoch 152 start, epsilon: 0.001 time: 2020-06-29 02:15:20.316833

부족분 점수: 31.675682309790567

추가분 점수: 0

기타 점수: 30.0

[Episode 153] - Mean score over last 1 times:61.67568230979057

epoch 153 start, epsilon: 0.001 time: 2020-06-29 02:15:34.666911

부족분 점수: 32.52223676016863

추가분 점수: 0

기타 점수: 30.0

[Episode 154] - Mean score over last 1 times:62.52223676016863

epoch 154 start, epsilon: 0.001 time: 2020-06-29 02:15:49.373833

부족분 점수: 30.98253715803867

추가분 점수: 0

기타 점수: 30.0

[Episode 155] - Mean score over last 1 times:60.98253715803867

epoch 155 start, epsilon: 0.001 time: 2020-06-29 02:16:04.276799

부족분 점수: 31.37862383232624

추가분 점수: 0
기타 점수: 30.0
[Episode 156] - Mean score over last 1 times:61.37862383232624

epoch 156 start, epsilon: 0.001 time: 2020-06-29 02:16:18.317322
부족분 점수: 27.9947500570646
추가분 점수: 1.6464673865459045
기타 점수: 30.0
[Episode 157] - Mean score over last 1 times:59.6412174436105

epoch 157 start, epsilon: 0.001 time: 2020-06-29 02:16:32.179795
부족분 점수: 25.766137146118854
추가분 점수: 2.986224314403043
기타 점수: 30.0
[Episode 158] - Mean score over last 1 times:58.7523614605219

epoch 158 start, epsilon: 0.001 time: 2020-06-29 02:16:47.871846
부족분 점수: 24.894807597840057
추가분 점수: 3.1204906295784163
기타 점수: 30.0
[Episode 159] - Mean score over last 1 times:58.01529822741847

epoch 159 start, epsilon: 0.001 time: 2020-06-29 02:17:02.536763
부족분 점수: 23.867351462312943
추가분 점수: 3.1343053310775804
기타 점수: 30.0
[Episode 160] - Mean score over last 1 times:57.001656793390524

epoch 160 start, epsilon: 0.001 time: 2020-06-29 02:17:17.492054
부족분 점수: 22.014387958770943
추가분 점수: 3.0135415901837215
기타 점수: 30.0
[Episode 161] - Mean score over last 1 times:55.02792954895466

epoch 161 start, epsilon: 0.001 time: 2020-06-29 02:17:33.035624
부족분 점수: 23.146477370930324
추가분 점수: 3.1928697363477365
기타 점수: 30.0
[Episode 162] - Mean score over last 1 times:56.33934710727806

epoch 162 start, epsilon: 0.001 time: 2020-06-29 02:17:49.850786
부족분 점수: 25.72880169261429
추가분 점수: 3.670272002280741
기타 점수: 30.0
[Episode 163] - Mean score over last 1 times:59.39907369489503

epoch 163 start, epsilon: 0.001 time: 2020-06-29 02:18:06.783782
부족분 점수: 20.064090531639284
추가분 점수: 3.4956288364997135
기타 점수: 30.0
[Episode 164] - Mean score over last 1 times:53.559719368139

epoch 164 start, epsilon: 0.001 time: 2020-06-29 02:18:22.062738
부족분 점수: 16.29022670082453
추가분 점수: 5.800263157652202
기타 점수: 30.0
[Episode 165] - Mean score over last 1 times:52.09048985847673

epoch 165 start, epsilon: 0.001 time: 2020-06-29 02:18:39.150751
부족분 점수: 21.437229096769578

추가분 점수: 3.116064935978591

기타 점수: 30.0

[Episode 166] - Mean score over last 1 times:54.55329403274817

epoch 166 start, epsilon: 0.001 time: 2020-06-29 02:18:56.416633

부족분 점수: 21.076944888962895

추가분 점수: 3.362082011426437

기타 점수: 30.0

[Episode 167] - Mean score over last 1 times:54.43902690038934

epoch 167 start, epsilon: 0.001 time: 2020-06-29 02:19:11.141145

부족분 점수: 18.667894182728983

추가분 점수: 5.269949798515123

기타 점수: 30.0

[Episode 168] - Mean score over last 1 times:53.93784398124411

epoch 168 start, epsilon: 0.001 time: 2020-06-29 02:19:25.882125

부족분 점수: 27.635812973125418

추가분 점수: 0

기타 점수: 30.0

[Episode 169] - Mean score over last 1 times:57.63581297312542

epoch 169 start, epsilon: 0.001 time: 2020-06-29 02:19:41.765986

부족분 점수: 27.816014215305724

추가분 점수: 0

기타 점수: 30.0

[Episode 170] - Mean score over last 1 times:57.81601421530573

epoch 170 start, epsilon: 0.001 time: 2020-06-29 02:19:58.226925

부족분 점수: 24.97479326948038

추가분 점수: 0

기타 점수: 30.0

[Episode 171] - Mean score over last 1 times:54.97479326948038

epoch 171 start, epsilon: 0.001 time: 2020-06-29 02:20:09.914879

부족분 점수: 18.289269428767252

추가분 점수: 0

기타 점수: 30.0

[Episode 172] - Mean score over last 1 times:48.289269428767255

epoch 172 start, epsilon: 0.001 time: 2020-06-29 02:20:22.403150

부족분 점수: 18.289269428767252

추가분 점수: 0

기타 점수: 30.0

[Episode 173] - Mean score over last 1 times:48.289269428767255

epoch 173 start, epsilon: 0.001 time: 2020-06-29 02:20:36.581367

부족분 점수: 33.485935688890265

추가분 점수: 0

기타 점수: 30.0

[Episode 174] - Mean score over last 1 times:63.485935688890265

epoch 174 start, epsilon: 0.001 time: 2020-06-29 02:20:51.857459

부족분 점수: 33.528091295982314

추가분 점수: 0.27678249679040423

기타 점수: 30.0

[Episode 175] - Mean score over last 1 times:63.80487379277272

epoch 175 start, epsilon: 0.001 time: 2020-06-29 02:21:04.886406

부족분 점수: 33.129901756729396

추가분 점수: 5.966591328085951

기타 점수: 30.0

[Episode 176] - Mean score over last 1 times:69.09649308481535

epoch 176 start, epsilon: 0.001 time: 2020-06-29 02:21:19.068548

부족분 점수: 24.983124854266386

추가분 점수: 4.141086417765692

기타 점수: 30.0

[Episode 177] - Mean score over last 1 times:59.12421127203208

epoch 177 start, epsilon: 0.001 time: 2020-06-29 02:21:33.233420

부족분 점수: 22.582855798147083

추가분 점수: 3.9298727559327973

기타 점수: 30.0

[Episode 178] - Mean score over last 1 times:56.512728554079885

epoch 178 start, epsilon: 0.001 time: 2020-06-29 02:21:47.838394

부족분 점수: 22.55921277583398

추가분 점수: 3.946260663706578

기타 점수: 30.0

[Episode 179] - Mean score over last 1 times:56.50547343954056

epoch 179 start, epsilon: 0.001 time: 2020-06-29 02:22:01.414406

부족분 점수: 19.65443891906904

추가분 점수: 3.182894568279826

기타 점수: 30.0

[Episode 180] - Mean score over last 1 times:52.837333487348864

epoch 180 start, epsilon: 0.001 time: 2020-06-29 02:22:17.196708

부족분 점수: 12.363297648631388

추가분 점수: 3.035177290410107

기타 점수: 30.0

[Episode 181] - Mean score over last 1 times:45.39847493904149

epoch 181 start, epsilon: 0.001 time: 2020-06-29 02:22:30.523489

부족분 점수: 12.20188855399386

추가분 점수: 1.7204900765971254

기타 점수: 30.0

[Episode 182] - Mean score over last 1 times:43.922378630590984

epoch 182 start, epsilon: 0.001 time: 2020-06-29 02:22:43.905371

부족분 점수: 12.20188855399386

추가분 점수: 0

기타 점수: 30.0

[Episode 183] - Mean score over last 1 times:42.20188855399386

epoch 183 start, epsilon: 0.001 time: 2020-06-29 02:22:58.126764

부족분 점수: 12.20188855399386

추가분 점수: 0

기타 점수: 30.0

[Episode 184] - Mean score over last 1 times:42.20188855399386

epoch 184 start, epsilon: 0.001 time: 2020-06-29 02:23:12.301397

부족분 점수: 12.20188855399386

추가분 점수: 0

기타 점수: 30.0

[Episode 185] - Mean score over last 1 times:42.20188855399386

epoch 185 start, epsilon: 0.001 time: 2020-06-29 02:23:27.051368

부족분 점수: 12.255085354198341

추가분 점수: 0

기타 점수: 30.0

[Episode 186] - Mean score over last 1 times:42.25508535419834

epoch 186 start, epsilon: 0.001 time: 2020-06-29 02:23:41.478371

부족분 점수: 12.177336184668718

추가분 점수: 0

기타 점수: 30.0

[Episode 187] - Mean score over last 1 times:42.17733618466872

epoch 187 start, epsilon: 0.001 time: 2020-06-29 02:23:56.719210

부족분 점수: 12.177336184668718

추가분 점수: 0

기타 점수: 30.0

[Episode 188] - Mean score over last 1 times:42.17733618466872

epoch 188 start, epsilon: 0.001 time: 2020-06-29 02:24:13.438609

부족분 점수: 11.62763591588909

추가분 점수: 0

기타 점수: 30.0

[Episode 189] - Mean score over last 1 times:41.62763591588909

epoch 189 start, epsilon: 0.001 time: 2020-06-29 02:24:27.588769

부족분 점수: 17.2945728265608

추가분 점수: 0

기타 점수: 30.0

[Episode 190] - Mean score over last 1 times:47.294572826560795

epoch 190 start, epsilon: 0.001 time: 2020-06-29 02:24:39.924787

부족분 점수: 15.395585919007287

추가분 점수: 0

기타 점수: 30.0

[Episode 191] - Mean score over last 1 times:45.39558591900729

epoch 191 start, epsilon: 0.001 time: 2020-06-29 02:24:53.075911

부족분 점수: 24.34375866913378

추가분 점수: 0

기타 점수: 30.0

[Episode 192] - Mean score over last 1 times:54.34375866913378

epoch 192 start, epsilon: 0.001 time: 2020-06-29 02:25:05.707132

부족분 점수: 24.505167763771308

추가분 점수: 0

기타 점수: 30.0

[Episode 193] - Mean score over last 1 times:54.50516776377131

epoch 193 start, epsilon: 0.001 time: 2020-06-29 02:25:18.094550

부족분 점수: 23.59641520661685

추가분 점수: 0

기타 점수: 30.0

[Episode 194] - Mean score over last 1 times:53.596415206616854

epoch 194 start, epsilon: 0.001 time: 2020-06-29 02:25:30.626433

부족분 점수: 12.050179672837835

추가분 점수: 0

기타 점수: 30.0

[Episode 195] - Mean score over last 1 times:42.050179672837835

epoch 195 start, epsilon: 0.001 time: 2020-06-29 02:25:47.098857

부족분 점수: 23.21428823781145

추가분 점수: 0

기타 점수: 30.0

[Episode 196] - Mean score over last 1 times:53.214288237811445

epoch 196 start, epsilon: 0.001 time: 2020-06-29 02:25:59.827864
부족분 점수: 23.177783792302687
추가분 점수: 0
기타 점수: 30.0
[Episode 197] - Mean score over last 1 times:53.17778379230269

epoch 197 start, epsilon: 0.001 time: 2020-06-29 02:26:14.197135
부족분 점수: 23.177783792302687
추가분 점수: 0
기타 점수: 30.0
[Episode 198] - Mean score over last 1 times:53.17778379230269

epoch 198 start, epsilon: 0.001 time: 2020-06-29 02:26:26.347858
부족분 점수: 23.177783792302687
추가분 점수: 0
기타 점수: 30.0
[Episode 199] - Mean score over last 1 times:53.17778379230269

epoch 199 start, epsilon: 0.001 time: 2020-06-29 02:26:38.685751
부족분 점수: 23.22263671924802
추가분 점수: 0
기타 점수: 30.0
[Episode 200] - Mean score over last 1 times:53.222636719248015

epoch 200 start, epsilon: 0.001 time: 2020-06-29 02:26:51.984798
부족분 점수: 21.47145249445252
추가분 점수: 0
기타 점수: 30.0
[Episode 201] - Mean score over last 1 times:51.47145249445252

epoch 201 start, epsilon: 0.001 time: 2020-06-29 02:27:05.064819
부족분 점수: 21.683210535645326
추가분 점수: 0
기타 점수: 30.0
[Episode 202] - Mean score over last 1 times:51.68321053564533

epoch 202 start, epsilon: 0.001 time: 2020-06-29 02:27:20.136047
부족분 점수: 21.683210535645326
추가분 점수: 0
기타 점수: 30.0
[Episode 203] - Mean score over last 1 times:51.68321053564533

epoch 203 start, epsilon: 0.001 time: 2020-06-29 02:27:33.367226
부족분 점수: 24.58822094551813
추가분 점수: 0
기타 점수: 30.0
[Episode 204] - Mean score over last 1 times:54.58822094551813

epoch 204 start, epsilon: 0.001 time: 2020-06-29 02:27:47.727822
부족분 점수: 23.806231669054213
추가분 점수: 0
기타 점수: 30.0
[Episode 205] - Mean score over last 1 times:53.80623166905421

epoch 205 start, epsilon: 0.001 time: 2020-06-29 02:28:02.494795
부족분 점수: 21.972880568636803
추가분 점수: 0
기타 점수: 30.0
[Episode 206] - Mean score over last 1 times:51.9728805686368

epoch 206 start, epsilon: 0.001 time: 2020-06-29 02:28:14.825964
부족분 점수: 20.022285146031603
추가분 점수: 0
기타 점수: 30.0
[Episode 207] - Mean score over last 1 times:50.02228514603161

epoch 207 start, epsilon: 0.001 time: 2020-06-29 02:28:27.870765
부족분 점수: 20.022285146031603
추가분 점수: 0
기타 점수: 30.0
[Episode 208] - Mean score over last 1 times:50.02228514603161

epoch 208 start, epsilon: 0.001 time: 2020-06-29 02:28:40.331787
부족분 점수: 19.984590254687824
추가분 점수: 0
기타 점수: 30.0
[Episode 209] - Mean score over last 1 times:49.984590254687824

epoch 209 start, epsilon: 0.001 time: 2020-06-29 02:28:53.982450
부족분 점수: 24.191154265497993
추가분 점수: 0
기타 점수: 30.0
[Episode 210] - Mean score over last 1 times:54.19115426549799

epoch 210 start, epsilon: 0.001 time: 2020-06-29 02:29:07.911847
부족분 점수: 23.08625617226965
추가분 점수: 0
기타 점수: 30.0
[Episode 211] - Mean score over last 1 times:53.08625617226965

epoch 211 start, epsilon: 0.001 time: 2020-06-29 02:29:20.937871
부족분 점수: 22.876627109047604
추가분 점수: 0
기타 점수: 30.0
[Episode 212] - Mean score over last 1 times:52.876627109047604

epoch 212 start, epsilon: 0.001 time: 2020-06-29 02:29:36.997793
부족분 점수: 22.371037850647742
추가분 점수: 0
기타 점수: 30.0
[Episode 213] - Mean score over last 1 times:52.37103785064774

epoch 213 start, epsilon: 0.001 time: 2020-06-29 02:29:51.277844
부족분 점수: 23.701924036960044
추가분 점수: 0
기타 점수: 30.0
[Episode 214] - Mean score over last 1 times:53.701924036960044

epoch 214 start, epsilon: 0.001 time: 2020-06-29 02:30:06.109839
부족분 점수: 22.75670389971623
추가분 점수: 0
기타 점수: 30.0
[Episode 215] - Mean score over last 1 times:52.75670389971623

epoch 215 start, epsilon: 0.001 time: 2020-06-29 02:30:19.726820
부족분 점수: 21.4028106195756
추가분 점수: 0.12800779580735666
기타 점수: 30.0
[Episode 216] - Mean score over last 1 times:51.53081841538295

epoch 216 start, epsilon: 0.001 time: 2020-06-29 02:30:32.154843
부족분 점수: 20.914528139528237
추가분 점수: 0.23532057400686757
기타 점수: 30.0
[Episode 217] - Mean score over last 1 times:51.14984871353511

epoch 217 start, epsilon: 0.001 time: 2020-06-29 02:30:46.072808
부족분 점수: 20.618397441785664
추가분 점수: 0.9865100214034483
기타 점수: 30.0
[Episode 218] - Mean score over last 1 times:51.60490746318911

epoch 218 start, epsilon: 0.001 time: 2020-06-29 02:30:58.696804
부족분 점수: 20.569237405006263
추가분 점수: 1.6468827369378913
기타 점수: 30.0
[Episode 219] - Mean score over last 1 times:52.21612014194415

epoch 219 start, epsilon: 0.001 time: 2020-06-29 02:31:10.847806
부족분 점수: 21.45414110792259
추가분 점수: 2.82735709043364
기타 점수: 30.0
[Episode 220] - Mean score over last 1 times:54.28149819835623

epoch 220 start, epsilon: 0.001 time: 2020-06-29 02:31:22.616771
부족분 점수: 24.800541184356895
추가분 점수: 7.261120530567116
기타 점수: 30.0
[Episode 221] - Mean score over last 1 times:62.061661714924014

epoch 221 start, epsilon: 0.001 time: 2020-06-29 02:31:35.343805
부족분 점수: 24.867121667865305
추가분 점수: 7.223434241154527
기타 점수: 30.0
[Episode 222] - Mean score over last 1 times:62.090555909019834

epoch 222 start, epsilon: 0.001 time: 2020-06-29 02:31:49.682782
부족분 점수: 24.83984125750403
추가분 점수: 7.28121955722788
기타 점수: 30.0
[Episode 223] - Mean score over last 1 times:62.12106081473191

epoch 223 start, epsilon: 0.001 time: 2020-06-29 02:32:03.853813
부족분 점수: 24.834907435540043
추가분 점수: 7.275473467189624
기타 점수: 30.0
[Episode 224] - Mean score over last 1 times:62.110380902729666

epoch 224 start, epsilon: 0.001 time: 2020-06-29 02:32:16.570804
부족분 점수: 24.859576545359978
추가분 점수: 7.255550780118356
기타 점수: 30.0
[Episode 225] - Mean score over last 1 times:62.11512732547833

epoch 225 start, epsilon: 0.001 time: 2020-06-29 02:32:31.247248
부족분 점수: 24.857782428282167
추가분 점수: 6.677717280941837
기타 점수: 30.0
[Episode 226] - Mean score over last 1 times:61.535499709224005

epoch 226 start, epsilon: 0.001 time: 2020-06-29 02:32:47.036180

부족분 점수: 26.090125812460087

추가분 점수: 5.870464746981874

기타 점수: 30.0

[Episode 227] - Mean score over last 1 times:61.96059055944196

epoch 227 start, epsilon: 0.001 time: 2020-06-29 02:32:59.982110

부족분 점수: 27.04057008684571

추가분 점수: 9.496823890512163

기타 점수: 30.0

[Episode 228] - Mean score over last 1 times:66.53739397735788

epoch 228 start, epsilon: 0.001 time: 2020-06-29 02:33:14.529136

부족분 점수: 26.253640844181238

추가분 점수: 6.996056321758923

기타 점수: 30.0

[Episode 229] - Mean score over last 1 times:63.24969716594016

epoch 229 start, epsilon: 0.001 time: 2020-06-29 02:33:29.214116

부족분 점수: 29.979289314588907

추가분 점수: 6.632976793525696

기타 점수: 30.0

[Episode 230] - Mean score over last 1 times:66.6122661081146

epoch 230 start, epsilon: 0.001 time: 2020-06-29 02:33:41.136095

부족분 점수: 30.886527317429387

추가분 점수: 4.723177872883733

기타 점수: 30.0

[Episode 231] - Mean score over last 1 times:65.60970519031312

epoch 231 start, epsilon: 0.001 time: 2020-06-29 02:33:53.338084

부족분 점수: 29.93134122847252

추가분 점수: 5.197209410635613

기타 점수: 30.0

[Episode 232] - Mean score over last 1 times:65.12855063910814

epoch 232 start, epsilon: 0.001 time: 2020-06-29 02:34:05.772086

부족분 점수: 30.412557836466842

추가분 점수: 5.075520347714635

기타 점수: 30.0

[Episode 233] - Mean score over last 1 times:65.48807818418148

epoch 233 start, epsilon: 0.001 time: 2020-06-29 02:34:19.075098

부족분 점수: 30.871053057633247

추가분 점수: 4.522582680687406

기타 점수: 30.0

[Episode 234] - Mean score over last 1 times:65.39363573832065

epoch 234 start, epsilon: 0.001 time: 2020-06-29 02:34:33.276073

부족분 점수: 31.383113733198197

추가분 점수: 5.014519752645324

기타 점수: 30.0

[Episode 235] - Mean score over last 1 times:66.39763348584353

epoch 235 start, epsilon: 0.001 time: 2020-06-29 02:34:46.865091

부족분 점수: 31.485396839343267

추가분 점수: 4.998537978908679

기타 점수: 30.0

[Episode 236] - Mean score over last 1 times:66.48393481825195

epoch 236 start, epsilon: 0.001 time: 2020-06-29 02:34:59.737999

부족분 점수: 30.061972306082517

추가분 점수: 5.2166811107427975

기타 점수: 30.0

[Episode 237] - Mean score over last 1 times:65.2786534168253

epoch 237 start, epsilon: 0.001 time: 2020-06-29 02:35:11.913504

부족분 점수: 29.97687462961774

추가분 점수: 5.29544407930612

기타 점수: 30.0

[Episode 238] - Mean score over last 1 times:65.27231870892386

epoch 238 start, epsilon: 0.001 time: 2020-06-29 02:35:25.717420

부족분 점수: 29.204043337758208

추가분 점수: 3.4185168243021757

기타 점수: 30.0

[Episode 239] - Mean score over last 1 times:62.62256016206038

epoch 239 start, epsilon: 0.001 time: 2020-06-29 02:35:37.523465

부족분 점수: 29.171306845324686

추가분 점수: 3.4185168243021757

기타 점수: 30.0

[Episode 240] - Mean score over last 1 times:62.58982366962686

epoch 240 start, epsilon: 0.001 time: 2020-06-29 02:35:49.991072

부족분 점수: 29.171306845324686

추가분 점수: 3.4185168243021757

기타 점수: 30.0

[Episode 241] - Mean score over last 1 times:62.58982366962686

epoch 241 start, epsilon: 0.001 time: 2020-06-29 02:36:02.304532

부족분 점수: 29.652670914996637

추가분 점수: 2.323490368755574

기타 점수: 30.0

[Episode 242] - Mean score over last 1 times:61.97616128375221

epoch 242 start, epsilon: 0.001 time: 2020-06-29 02:36:18.569967

부족분 점수: 28.423089365155974

추가분 점수: 2.3698136115115953

기타 점수: 30.0

[Episode 243] - Mean score over last 1 times:60.79290297666757

epoch 243 start, epsilon: 0.001 time: 2020-06-29 02:36:34.545040

부족분 점수: 28.423089365155974

추가분 점수: 2.3698136115115953

기타 점수: 30.0

[Episode 244] - Mean score over last 1 times:60.79290297666757

epoch 244 start, epsilon: 0.001 time: 2020-06-29 02:36:49.385967

부족분 점수: 28.46078425649976

추가분 점수: 3.096391090488322

기타 점수: 30.0

[Episode 245] - Mean score over last 1 times:61.55717534698808

epoch 245 start, epsilon: 0.001 time: 2020-06-29 02:37:02.430026

부족분 점수: 27.96472931719406

추가분 점수: 3.1843114292323738

기타 점수: 30.0

[Episode 246] - Mean score over last 1 times:61.14904074642644

epoch 246 start, epsilon: 0.001 time: 2020-06-29 02:37:14.874496

부족분 점수: 25.080799782985565

추가분 점수: 2.7189297477207197

기타 점수: 30.0
[Episode 247] - Mean score over last 1 times:57.79972953070629

epoch 247 start, epsilon: 0.001 time: 2020-06-29 02:37:27.841003
부족분 점수: 25.080799782985565
추가분 점수: 2.6281326774156
기타 점수: 30.0
[Episode 248] - Mean score over last 1 times:57.708932460401165

epoch 248 start, epsilon: 0.001 time: 2020-06-29 02:37:40.145989
부족분 점수: 24.659309762608206
추가분 점수: 3.6734731495325934
기타 점수: 30.0
[Episode 249] - Mean score over last 1 times:58.3327829121408

epoch 249 start, epsilon: 0.001 time: 2020-06-29 02:37:52.717011
부족분 점수: 24.596672342917213
추가분 점수: 3.6907851504861777
기타 점수: 30.0
[Episode 250] - Mean score over last 1 times:58.287457493403394

epoch 250 start, epsilon: 0.001 time: 2020-06-29 02:38:05.697081
부족분 점수: 24.552046752724895
추가분 점수: 2.3065218306261315
기타 점수: 30.0
[Episode 251] - Mean score over last 1 times:56.85856858335103

epoch 251 start, epsilon: 0.001 time: 2020-06-29 02:38:18.221170
부족분 점수: 22.276843631944253
추가분 점수: 0
기타 점수: 30.0
[Episode 252] - Mean score over last 1 times:52.27684363194425

epoch 252 start, epsilon: 0.001 time: 2020-06-29 02:38:30.088969
부족분 점수: 22.276843631944253
추가분 점수: 0
기타 점수: 30.0
[Episode 253] - Mean score over last 1 times:52.27684363194425

epoch 253 start, epsilon: 0.001 time: 2020-06-29 02:38:42.892966
부족분 점수: 24.452378019239447
추가분 점수: 0
기타 점수: 30.0
[Episode 254] - Mean score over last 1 times:54.45237801923945

epoch 254 start, epsilon: 0.001 time: 2020-06-29 02:38:55.599446
부족분 점수: 24.17542655594343
추가분 점수: 0
기타 점수: 30.0
[Episode 255] - Mean score over last 1 times:54.17542655594343

epoch 255 start, epsilon: 0.001 time: 2020-06-29 02:39:09.610947
부족분 점수: 23.774507439595244
추가분 점수: 0
기타 점수: 30.0
[Episode 256] - Mean score over last 1 times:53.77450743959524

epoch 256 start, epsilon: 0.001 time: 2020-06-29 02:39:23.338661
부족분 점수: 23.66765916568026
추가분 점수: 0

기타 점수: 30.0

[Episode 257] - Mean score over last 1 times:53.66765916568026

epoch 257 start, epsilon: 0.001 time: 2020-06-29 02:39:37.007653

부족분 점수: 23.422018731934024

추가분 점수: 0

기타 점수: 30.0

[Episode 258] - Mean score over last 1 times:53.422018731934024

epoch 258 start, epsilon: 0.001 time: 2020-06-29 02:39:51.375650

부족분 점수: 23.422018731934024

추가분 점수: 0

기타 점수: 30.0

[Episode 259] - Mean score over last 1 times:53.422018731934024

epoch 259 start, epsilon: 0.001 time: 2020-06-29 02:40:08.250225

부족분 점수: 23.422018731934024

추가분 점수: 0

기타 점수: 30.0

[Episode 260] - Mean score over last 1 times:53.422018731934024

epoch 260 start, epsilon: 0.001 time: 2020-06-29 02:40:22.401436

부족분 점수: 22.978010084535477

추가분 점수: 0

기타 점수: 30.0

[Episode 261] - Mean score over last 1 times:52.97801008453548

epoch 261 start, epsilon: 0.001 time: 2020-06-29 02:40:34.924192

부족분 점수: 22.978010084535477

추가분 점수: 0

기타 점수: 30.0

[Episode 262] - Mean score over last 1 times:52.97801008453548

epoch 262 start, epsilon: 0.001 time: 2020-06-29 02:40:49.765235

부족분 점수: 22.978010084535477

추가분 점수: 0

기타 점수: 30.0

[Episode 263] - Mean score over last 1 times:52.97801008453548

epoch 263 start, epsilon: 0.001 time: 2020-06-29 02:41:02.579265

부족분 점수: 22.978010084535477

추가분 점수: 0

기타 점수: 30.0

[Episode 264] - Mean score over last 1 times:52.97801008453548

epoch 264 start, epsilon: 0.001 time: 2020-06-29 02:41:17.192002

부족분 점수: 22.978010084535477

추가분 점수: 0

기타 점수: 30.0

[Episode 265] - Mean score over last 1 times:52.97801008453548

epoch 265 start, epsilon: 0.001 time: 2020-06-29 02:41:31.028199

부족분 점수: 22.978010084535477

추가분 점수: 0

기타 점수: 30.0

[Episode 266] - Mean score over last 1 times:52.97801008453548

epoch 266 start, epsilon: 0.001 time: 2020-06-29 02:41:45.832107

부족분 점수: 22.978010084535477

추가분 점수: 0

기타 점수: 30.0

[Episode 267] - Mean score over last 1 times:52.97801008453548

epoch 267 start, epsilon: 0.001 time: 2020-06-29 02:42:00.088150

부족분 점수: 23.017029058859634

추가분 점수: 0

기타 점수: 30.0

[Episode 268] - Mean score over last 1 times:53.017029058859634

epoch 268 start, epsilon: 0.001 time: 2020-06-29 02:42:13.946213

부족분 점수: 22.955775628455555

추가분 점수: 0

기타 점수: 30.0

[Episode 269] - Mean score over last 1 times:52.955775628455555

epoch 269 start, epsilon: 0.001 time: 2020-06-29 02:42:26.794174

부족분 점수: 22.978010084535477

추가분 점수: 0

기타 점수: 30.0

[Episode 270] - Mean score over last 1 times:52.97801008453548

epoch 270 start, epsilon: 0.001 time: 2020-06-29 02:42:40.864703

부족분 점수: 22.925722631343042

추가분 점수: 0

기타 점수: 30.0

[Episode 271] - Mean score over last 1 times:52.92572263134304

epoch 271 start, epsilon: 0.001 time: 2020-06-29 02:42:55.522253

부족분 점수: 22.859100674237798

추가분 점수: 0

기타 점수: 30.0

[Episode 272] - Mean score over last 1 times:52.859100674237794

epoch 272 start, epsilon: 0.001 time: 2020-06-29 02:43:10.162211

부족분 점수: 22.93957788480355

추가분 점수: 0

기타 점수: 30.0

[Episode 273] - Mean score over last 1 times:52.939577884803555

epoch 273 start, epsilon: 0.001 time: 2020-06-29 02:43:23.361234

부족분 점수: 22.93957788480355

추가분 점수: 0

기타 점수: 30.0

[Episode 274] - Mean score over last 1 times:52.939577884803555

epoch 274 start, epsilon: 0.001 time: 2020-06-29 02:43:38.742206

부족분 점수: 18.394871958718102

추가분 점수: 0

기타 점수: 30.0

[Episode 275] - Mean score over last 1 times:48.3948719587181

epoch 275 start, epsilon: 0.001 time: 2020-06-29 02:43:51.367205

부족분 점수: 15.65931652126843

추가분 점수: 0

기타 점수: 30.0

[Episode 276] - Mean score over last 1 times:45.65931652126843

epoch 276 start, epsilon: 0.001 time: 2020-06-29 02:44:03.555187

부족분 점수: 15.532462613088516

추가분 점수: 0

기타 점수: 30.0

[Episode 277] - Mean score over last 1 times:45.53246261308851

epoch 277 start, epsilon: 0.001 time: 2020-06-29 02:44:16.441422
부족분 점수: 14.118154590835319
추가분 점수: 0
기타 점수: 30.0
[Episode 278] - Mean score over last 1 times:44.11815459083532

epoch 278 start, epsilon: 0.001 time: 2020-06-29 02:44:30.272164
부족분 점수: 12.35898132244247
추가분 점수: 0
기타 점수: 30.0
[Episode 279] - Mean score over last 1 times:42.35898132244247

epoch 279 start, epsilon: 0.001 time: 2020-06-29 02:44:45.570884
부족분 점수: 12.35898132244247
추가분 점수: 0
기타 점수: 30.0
[Episode 280] - Mean score over last 1 times:42.35898132244247

epoch 280 start, epsilon: 0.001 time: 2020-06-29 02:45:00.561172
부족분 점수: 12.35898132244247
추가분 점수: 0
기타 점수: 30.0
[Episode 281] - Mean score over last 1 times:42.35898132244247

epoch 281 start, epsilon: 0.001 time: 2020-06-29 02:45:13.182186
부족분 점수: 15.971038219301937
추가분 점수: 3.550537421011999
기타 점수: 30.0
[Episode 282] - Mean score over last 1 times:49.521575640313934

epoch 282 start, epsilon: 0.001 time: 2020-06-29 02:45:26.711162
부족분 점수: 17.441810239554567
추가분 점수: 1.573384764689565
기타 점수: 30.0
[Episode 283] - Mean score over last 1 times:49.015195004244134

epoch 283 start, epsilon: 0.001 time: 2020-06-29 02:45:39.219160
부족분 점수: 17.371125406018834
추가분 점수: 1.614654372868527
기타 점수: 30.0
[Episode 284] - Mean score over last 1 times:48.98577977888736

epoch 284 start, epsilon: 0.001 time: 2020-06-29 02:45:52.155115
부족분 점수: 17.260639744055684
추가분 점수: 0.9543025477384148
기타 점수: 30.0
[Episode 285] - Mean score over last 1 times:48.2149422917941

epoch 285 start, epsilon: 0.001 time: 2020-06-29 02:46:06.067147
부족분 점수: 18.21818214773632
추가분 점수: 0.962669769096518
기타 점수: 30.0
[Episode 286] - Mean score over last 1 times:49.180851916832836

epoch 286 start, epsilon: 0.001 time: 2020-06-29 02:46:20.657219
부족분 점수: 19.89786128341428
추가분 점수: 0.7679011564374849
기타 점수: 30.0
[Episode 287] - Mean score over last 1 times:50.66576243985176

epoch 287 start, epsilon: 0.001 time: 2020-06-29 02:46:36.316201
부족분 점수: 27.95575873180499
추가분 점수: 4.871771318888028
기타 점수: 30.0
[Episode 288] - Mean score over last 1 times:62.82753005069302

epoch 288 start, epsilon: 0.001 time: 2020-06-29 02:46:48.353127
부족분 점수: 33.52096551762275
추가분 점수: 7.333870134801479
기타 점수: 30.0
[Episode 289] - Mean score over last 1 times:70.85483565242423

epoch 289 start, epsilon: 0.001 time: 2020-06-29 02:47:03.768158
부족분 점수: 28.793821847246292
추가분 점수: 6.801460976571105
기타 점수: 30.0
[Episode 290] - Mean score over last 1 times:65.5952828238174

epoch 290 start, epsilon: 0.001 time: 2020-06-29 02:47:17.069135
부족분 점수: 29.11437127716866
추가분 점수: 6.73088888977639
기타 점수: 30.0
[Episode 291] - Mean score over last 1 times:65.84526016694505

epoch 291 start, epsilon: 0.001 time: 2020-06-29 02:47:29.931128
부족분 점수: 26.9407707883332
추가분 점수: 7.126731330660386
기타 점수: 30.0
[Episode 292] - Mean score over last 1 times:64.06750211899359

epoch 292 start, epsilon: 0.001 time: 2020-06-29 02:47:43.670327
부족분 점수: 27.685613546567012
추가분 점수: 6.756064899113172
기타 점수: 30.0
[Episode 293] - Mean score over last 1 times:64.44167844568018

epoch 293 start, epsilon: 0.001 time: 2020-06-29 02:47:56.678152
부족분 점수: 28.152672297449865
추가분 점수: 6.862572782322294
기타 점수: 30.0
[Episode 294] - Mean score over last 1 times:65.01524507977216

epoch 294 start, epsilon: 0.001 time: 2020-06-29 02:48:10.126059
부족분 점수: 28.22996832953261
추가분 점수: 6.862572782322294
기타 점수: 30.0
[Episode 295] - Mean score over last 1 times:65.0925411118549

epoch 295 start, epsilon: 0.001 time: 2020-06-29 02:48:23.888567
부족분 점수: 28.35111577800013
추가분 점수: 6.655967912338947
기타 점수: 30.0
[Episode 296] - Mean score over last 1 times:65.00708369033907

epoch 296 start, epsilon: 0.001 time: 2020-06-29 02:48:36.551573
부족분 점수: 27.87951029205707
추가분 점수: 6.635883631845947
기타 점수: 30.0
[Episode 297] - Mean score over last 1 times:64.51539392390302

epoch 297 start, epsilon: 0.001 time: 2020-06-29 02:48:49.768575
부족분 점수: 27.87868696435698
추가분 점수: 7.106404352822954
기타 점수: 30.0
[Episode 298] - Mean score over last 1 times:64.98509131717994

epoch 298 start, epsilon: 0.001 time: 2020-06-29 02:49:03.264838
부족분 점수: 28.010920151652048
추가분 점수: 7.115653886552202
기타 점수: 30.0
[Episode 299] - Mean score over last 1 times:65.12657403820425

epoch 299 start, epsilon: 0.001 time: 2020-06-29 02:49:18.655180
부족분 점수: 29.790393977665087
추가분 점수: 6.752104938645189
기타 점수: 30.0
[Episode 300] - Mean score over last 1 times:66.54249891631028

epoch 300 start, epsilon: 0.001 time: 2020-06-29 02:49:31.980739
부족분 점수: 30.938853172100373
추가분 점수: 5.21417671991774
기타 점수: 30.0
[Episode 301] - Mean score over last 1 times:66.15302989201811

epoch 301 start, epsilon: 0.001 time: 2020-06-29 02:49:44.978712
부족분 점수: 30.938853172100373
추가분 점수: 5.21417671991774
기타 점수: 30.0
[Episode 302] - Mean score over last 1 times:66.15302989201811

epoch 302 start, epsilon: 0.001 time: 2020-06-29 02:50:00.159722
부족분 점수: 31.003871483461403
추가분 점수: 5.288477743885487
기타 점수: 30.0
[Episode 303] - Mean score over last 1 times:66.29234922734689

epoch 303 start, epsilon: 0.001 time: 2020-06-29 02:50:14.422692
부족분 점수: 30.32070764401399
추가분 점수: 5.5732317731990255
기타 점수: 30.0
[Episode 304] - Mean score over last 1 times:65.893939417213

epoch 304 start, epsilon: 0.001 time: 2020-06-29 02:50:28.644715
부족분 점수: 30.246185734741637
추가분 점수: 5.630260733750876
기타 점수: 30.0
[Episode 305] - Mean score over last 1 times:65.8764464684925

epoch 305 start, epsilon: 0.001 time: 2020-06-29 02:50:41.061691
부족분 점수: 30.941274001308106
추가분 점수: 5.623852295010603
기타 점수: 30.0
[Episode 306] - Mean score over last 1 times:66.56512629631871

epoch 306 start, epsilon: 0.001 time: 2020-06-29 02:50:53.149692
부족분 점수: 31.389138157152985
추가분 점수: 5.791841252588643
기타 점수: 30.0
[Episode 307] - Mean score over last 1 times:67.18097940974162

epoch 307 start, epsilon: 0.001 time: 2020-06-29 02:51:05.758702

부족분 점수: 31.730536517809227

추가분 점수: 5.621142072260524

기타 점수: 30.0

[Episode 308] - Mean score over last 1 times:67.35167859006975

epoch 308 start, epsilon: 0.001 time: 2020-06-29 02:51:18.363694

부족분 점수: 31.730536517809227

추가분 점수: 4.696616338200901

기타 점수: 30.0

[Episode 309] - Mean score over last 1 times:66.42715285601012

epoch 309 start, epsilon: 0.001 time: 2020-06-29 02:51:32.078701

부족분 점수: 31.730536517809227

추가분 점수: 5.290945883714793

기타 점수: 30.0

[Episode 310] - Mean score over last 1 times:67.02148240152403

epoch 310 start, epsilon: 0.001 time: 2020-06-29 02:51:47.756678

부족분 점수: 31.266085995349425

추가분 점수: 5.339377828460902

기타 점수: 30.0

[Episode 311] - Mean score over last 1 times:66.60546382381033

epoch 311 start, epsilon: 0.001 time: 2020-06-29 02:52:02.570127

부족분 점수: 31.266085995349425

추가분 점수: 4.547004792197312

기타 점수: 30.0

[Episode 312] - Mean score over last 1 times:65.81309078754674

epoch 312 start, epsilon: 0.001 time: 2020-06-29 02:52:16.184417

부족분 점수: 20.96959278764935

추가분 점수: 0

기타 점수: 30.0

[Episode 313] - Mean score over last 1 times:50.96959278764935

epoch 313 start, epsilon: 0.001 time: 2020-06-29 02:52:30.383691

부족분 점수: 20.33118510342133

추가분 점수: 0

기타 점수: 30.0

[Episode 314] - Mean score over last 1 times:50.33118510342133

epoch 314 start, epsilon: 0.001 time: 2020-06-29 02:52:43.470671

부족분 점수: 19.728245024781245

추가분 점수: 0

기타 점수: 30.0

[Episode 315] - Mean score over last 1 times:49.728245024781245

epoch 315 start, epsilon: 0.001 time: 2020-06-29 02:52:56.771679

부족분 점수: 26.593263520469367

추가분 점수: 0

기타 점수: 30.0

[Episode 316] - Mean score over last 1 times:56.593263520469364

epoch 316 start, epsilon: 0.001 time: 2020-06-29 02:53:09.668647

부족분 점수: 20.952943442609605

추가분 점수: 0

기타 점수: 30.0

[Episode 317] - Mean score over last 1 times:50.95294344260961

epoch 317 start, epsilon: 0.001 time: 2020-06-29 02:53:23.878652

부족분 점수: 20.872625982194613

추가분 점수: 0
기타 점수: 30.0
[Episode 318] - Mean score over last 1 times:50.87262598219461

epoch 318 start, epsilon: 0.001 time: 2020-06-29 02:53:36.931628
부족분 점수: 20.173087752293874
추가분 점수: 0
기타 점수: 30.0
[Episode 319] - Mean score over last 1 times:50.173087752293874

epoch 319 start, epsilon: 0.001 time: 2020-06-29 02:53:50.302544
부족분 점수: 20.540566861121512
추가분 점수: 0
기타 점수: 30.0
[Episode 320] - Mean score over last 1 times:50.54056686112151

epoch 320 start, epsilon: 0.001 time: 2020-06-29 02:54:03.497259
부족분 점수: 20.581899140513464
추가분 점수: 0
기타 점수: 30.0
[Episode 321] - Mean score over last 1 times:50.581899140513464

epoch 321 start, epsilon: 0.001 time: 2020-06-29 02:54:18.040367
부족분 점수: 20.543706566007685
추가분 점수: 0
기타 점수: 30.0
[Episode 322] - Mean score over last 1 times:50.543706566007685

epoch 322 start, epsilon: 0.001 time: 2020-06-29 02:54:32.869712
부족분 점수: 20.581487476663423
추가분 점수: 0
기타 점수: 30.0
[Episode 323] - Mean score over last 1 times:50.581487476663426

epoch 323 start, epsilon: 0.001 time: 2020-06-29 02:54:45.972975
부족분 점수: 20.537416403821346
추가분 점수: 0
기타 점수: 30.0
[Episode 324] - Mean score over last 1 times:50.53741640382135

epoch 324 start, epsilon: 0.001 time: 2020-06-29 02:54:59.710237
부족분 점수: 20.58755030209675
추가분 점수: 0
기타 점수: 30.0
[Episode 325] - Mean score over last 1 times:50.58755030209675

epoch 325 start, epsilon: 0.001 time: 2020-06-29 02:55:13.439524
부족분 점수: 18.719091033930624
추가분 점수: 0
기타 점수: 30.0
[Episode 326] - Mean score over last 1 times:48.719091033930624

epoch 326 start, epsilon: 0.001 time: 2020-06-29 02:55:25.061445
부족분 점수: 21.010843655906775
추가분 점수: 0
기타 점수: 30.0
[Episode 327] - Mean score over last 1 times:51.010843655906775

epoch 327 start, epsilon: 0.001 time: 2020-06-29 02:55:36.669404
부족분 점수: 21.33692904297678
추가분 점수: 0

기타 점수: 30.0

[Episode 328] - Mean score over last 1 times:51.33692904297678

epoch 328 start, epsilon: 0.001 time: 2020-06-29 02:55:51.084853

부족분 점수: 21.348750554133332

추가분 점수: 0

기타 점수: 30.0

[Episode 329] - Mean score over last 1 times:51.34875055413333

epoch 329 start, epsilon: 0.001 time: 2020-06-29 02:56:03.298908

부족분 점수: 23.030563275959476

추가분 점수: 0

기타 점수: 30.0

[Episode 330] - Mean score over last 1 times:53.03056327595948

epoch 330 start, epsilon: 0.001 time: 2020-06-29 02:56:15.566107

부족분 점수: 23.02419784687518

추가분 점수: 0

기타 점수: 30.0

[Episode 331] - Mean score over last 1 times:53.02419784687518

epoch 331 start, epsilon: 0.001 time: 2020-06-29 02:56:28.502509

부족분 점수: 23.02419784687518

추가분 점수: 0

기타 점수: 30.0

[Episode 332] - Mean score over last 1 times:53.02419784687518

epoch 332 start, epsilon: 0.001 time: 2020-06-29 02:56:41.692239

부족분 점수: 23.043294134128068

추가분 점수: 0

기타 점수: 30.0

[Episode 333] - Mean score over last 1 times:53.04329413412807

epoch 333 start, epsilon: 0.001 time: 2020-06-29 02:56:54.833098

부족분 점수: 32.771602137334135

추가분 점수: 0

기타 점수: 30.0

[Episode 334] - Mean score over last 1 times:62.771602137334135

epoch 334 start, epsilon: 0.001 time: 2020-06-29 02:57:07.820369

부족분 점수: 23.02419784687518

추가분 점수: 0

기타 점수: 30.0

[Episode 335] - Mean score over last 1 times:53.02419784687518

epoch 335 start, epsilon: 0.001 time: 2020-06-29 02:57:21.338218

부족분 점수: 22.795916417492272

추가분 점수: 0

기타 점수: 30.0

[Episode 336] - Mean score over last 1 times:52.79591641749227

epoch 336 start, epsilon: 0.001 time: 2020-06-29 02:57:34.231738

부족분 점수: 22.76215537361106

추가분 점수: 0

기타 점수: 30.0

[Episode 337] - Mean score over last 1 times:52.76215537361106

epoch 337 start, epsilon: 0.001 time: 2020-06-29 02:57:47.360631

부족분 점수: 22.795916417492272

추가분 점수: 0

기타 점수: 30.0

[Episode 338] - Mean score over last 1 times:52.79591641749227

epoch 338 start, epsilon: 0.001 time: 2020-06-29 02:58:00.718912

부족분 점수: 22.795916417492272

추가분 점수: 0

기타 점수: 30.0

[Episode 339] - Mean score over last 1 times:52.79591641749227

epoch 339 start, epsilon: 0.001 time: 2020-06-29 02:58:14.526983

부족분 점수: 22.67804077499714

추가분 점수: 0

기타 점수: 30.0

[Episode 340] - Mean score over last 1 times:52.67804077499714

epoch 340 start, epsilon: 0.001 time: 2020-06-29 02:58:27.097368

부족분 점수: 22.795916417492272

추가분 점수: 0

기타 점수: 30.0

[Episode 341] - Mean score over last 1 times:52.79591641749227

epoch 341 start, epsilon: 0.001 time: 2020-06-29 02:58:42.145128

부족분 점수: 22.68906814357729

추가분 점수: 0

기타 점수: 30.0

[Episode 342] - Mean score over last 1 times:52.68906814357729

epoch 342 start, epsilon: 0.001 time: 2020-06-29 02:58:56.770018

부족분 점수: 23.422018731934024

추가분 점수: 0

기타 점수: 30.0

[Episode 343] - Mean score over last 1 times:53.422018731934024

epoch 343 start, epsilon: 0.001 time: 2020-06-29 02:59:11.063793

부족분 점수: 21.15834219895468

추가분 점수: 0

기타 점수: 30.0

[Episode 344] - Mean score over last 1 times:51.158342198954685

epoch 344 start, epsilon: 0.001 time: 2020-06-29 02:59:22.049416

부족분 점수: 22.909526423750176

추가분 점수: 0

기타 점수: 30.0

[Episode 345] - Mean score over last 1 times:52.90952642375018

epoch 345 start, epsilon: 0.001 time: 2020-06-29 02:59:34.213886

부족분 점수: 22.909526423750176

추가분 점수: 0

기타 점수: 30.0

[Episode 346] - Mean score over last 1 times:52.90952642375018

epoch 346 start, epsilon: 0.001 time: 2020-06-29 02:59:47.363721

부족분 점수: 22.909526423750176

추가분 점수: 0

기타 점수: 30.0

[Episode 347] - Mean score over last 1 times:52.90952642375018

epoch 347 start, epsilon: 0.001 time: 2020-06-29 02:59:59.760569

부족분 점수: 22.909526423750176

추가분 점수: 0

기타 점수: 30.0

[Episode 348] - Mean score over last 1 times:52.90952642375018

epoch 348 start, epsilon: 0.001 time: 2020-06-29 03:00:12.291062

부족분 점수: 21.15834219895468

추가분 점수: 0

기타 점수: 30.0

[Episode 349] - Mean score over last 1 times:51.158342198954685

epoch 349 start, epsilon: 0.001 time: 2020-06-29 03:00:25.751973

부족분 점수: 21.15834219895468

추가분 점수: 0

기타 점수: 30.0

[Episode 350] - Mean score over last 1 times:51.158342198954685

epoch 350 start, epsilon: 0.001 time: 2020-06-29 03:00:40.847126

부족분 점수: 21.15834219895468

추가분 점수: 0

기타 점수: 30.0

[Episode 351] - Mean score over last 1 times:51.158342198954685

epoch 351 start, epsilon: 0.001 time: 2020-06-29 03:00:54.109202

부족분 점수: 25.882472121294605

추가분 점수: 0

기타 점수: 30.0

[Episode 352] - Mean score over last 1 times:55.882472121294605

epoch 352 start, epsilon: 0.001 time: 2020-06-29 03:01:07.084253

부족분 점수: 27.119879892463572

추가분 점수: 0

기타 점수: 30.0

[Episode 353] - Mean score over last 1 times:57.11987989246357

epoch 353 start, epsilon: 0.001 time: 2020-06-29 03:01:20.098006

부족분 점수: 27.119879892463572

추가분 점수: 0

기타 점수: 30.0

[Episode 354] - Mean score over last 1 times:57.11987989246357

epoch 354 start, epsilon: 0.001 time: 2020-06-29 03:01:34.708996

부족분 점수: 32.55325286636316

추가분 점수: 1.9559593411289367

기타 점수: 30.0

[Episode 355] - Mean score over last 1 times:64.5092122074921

epoch 355 start, epsilon: 0.001 time: 2020-06-29 03:01:48.410152

부족분 점수: 29.161592807310903

추가분 점수: 7.055836057022202

기타 점수: 30.0

[Episode 356] - Mean score over last 1 times:66.2174288643331

epoch 356 start, epsilon: 0.001 time: 2020-06-29 03:02:01.420819

부족분 점수: 29.239394202851354

추가분 점수: 7.058658719301474

기타 점수: 30.0

[Episode 357] - Mean score over last 1 times:66.29805292215283

epoch 357 start, epsilon: 0.001 time: 2020-06-29 03:02:15.943835

부족분 점수: 29.095870980862852

추가분 점수: 6.934950660244301

기타 점수: 30.0

[Episode 358] - Mean score over last 1 times:66.03082164110715

epoch 358 start, epsilon: 0.001 time: 2020-06-29 03:02:28.952847
부족분 점수: 29.73934766025935
추가분 점수: 8.117738933231502
기타 점수: 30.0
[Episode 359] - Mean score over last 1 times:67.85708659349086

epoch 359 start, epsilon: 0.001 time: 2020-06-29 03:02:42.627822
부족분 점수: 27.040940277098922
추가분 점수: 9.99741573409956
기타 점수: 30.0
[Episode 360] - Mean score over last 1 times:67.03835601119849

epoch 360 start, epsilon: 0.001 time: 2020-06-29 03:02:56.641813
부족분 점수: 27.044551552141684
추가분 점수: 9.899649256255525
기타 점수: 30.0
[Episode 361] - Mean score over last 1 times:66.94420080839721

epoch 361 start, epsilon: 0.001 time: 2020-06-29 03:03:10.564929
부족분 점수: 27.652112096680792
추가분 점수: 9.94718352803907
기타 점수: 30.0
[Episode 362] - Mean score over last 1 times:67.59929562471986

epoch 362 start, epsilon: 0.001 time: 2020-06-29 03:03:23.133952
부족분 점수: 27.734091573087383
추가분 점수: 9.555035002179668
기타 점수: 30.0
[Episode 363] - Mean score over last 1 times:67.28912657526705

epoch 363 start, epsilon: 0.001 time: 2020-06-29 03:03:37.818792
부족분 점수: 27.188500262512505
추가분 점수: 11.423066631480673
기타 점수: 30.0
[Episode 364] - Mean score over last 1 times:68.61156689399317

epoch 364 start, epsilon: 0.001 time: 2020-06-29 03:03:51.918689
부족분 점수: 27.022843964347455
추가분 점수: 11.425043232384551
기타 점수: 30.0
[Episode 365] - Mean score over last 1 times:68.44788719673201

epoch 365 start, epsilon: 0.001 time: 2020-06-29 03:04:05.319815
부족분 점수: 27.04170369849248
추가분 점수: 11.423066631480673
기타 점수: 30.0
[Episode 366] - Mean score over last 1 times:68.46477032997315

epoch 366 start, epsilon: 0.001 time: 2020-06-29 03:04:19.180794
부족분 점수: 22.265404599514056
추가분 점수: 3.9313664198424436
기타 점수: 30.0
[Episode 367] - Mean score over last 1 times:56.196771019356504

epoch 367 start, epsilon: 0.001 time: 2020-06-29 03:04:31.772698
부족분 점수: 22.46956682824985
추가분 점수: 3.9198975878648867
기타 점수: 30.0
[Episode 368] - Mean score over last 1 times:56.389464416114734

epoch 368 start, epsilon: 0.001 time: 2020-06-29 03:04:44.573281
부족분 점수: 22.46956682824985
추가분 점수: 3.9313664198424436
기타 점수: 30.0
[Episode 369] - Mean score over last 1 times:56.400933248092294

epoch 369 start, epsilon: 0.001 time: 2020-06-29 03:04:58.540771
부족분 점수: 24.342577439653613
추가분 점수: 5.247473566726255
기타 점수: 30.0
[Episode 370] - Mean score over last 1 times:59.590051006379866

epoch 370 start, epsilon: 0.001 time: 2020-06-29 03:05:14.318769
부족분 점수: 24.342577439653613
추가분 점수: 3.637801555290603
기타 점수: 30.0
[Episode 371] - Mean score over last 1 times:57.98037899494422

epoch 371 start, epsilon: 0.001 time: 2020-06-29 03:05:28.653745
부족분 점수: 24.41259715958088
추가분 점수: 4.826480307875407
기타 점수: 30.0
[Episode 372] - Mean score over last 1 times:59.23907746745628

epoch 372 start, epsilon: 0.001 time: 2020-06-29 03:05:42.654744
부족분 점수: 24.055146980891116
추가분 점수: 4.642166113736577
기타 점수: 30.0
[Episode 373] - Mean score over last 1 times:58.697313094627695

epoch 373 start, epsilon: 0.001 time: 2020-06-29 03:05:55.815712
부족분 점수: 28.3354295420424
추가분 점수: 8.869479518648218
기타 점수: 30.0
[Episode 374] - Mean score over last 1 times:67.20490906069062

epoch 374 start, epsilon: 0.001 time: 2020-06-29 03:06:08.316725
부족분 점수: 23.57541727814621
추가분 점수: 4.642166113736577
기타 점수: 30.0
[Episode 375] - Mean score over last 1 times:58.21758339188279

epoch 375 start, epsilon: 0.001 time: 2020-06-29 03:06:21.092523
부족분 점수: 23.58618198061309
추가분 점수: 4.706248043444667
기타 점수: 30.0
[Episode 376] - Mean score over last 1 times:58.29243002405776

epoch 376 start, epsilon: 0.001 time: 2020-06-29 03:06:36.142724
부족분 점수: 23.54006334093478
추가분 점수: 4.631966681033939
기타 점수: 30.0
[Episode 377] - Mean score over last 1 times:58.172030021968716

epoch 377 start, epsilon: 0.001 time: 2020-06-29 03:06:48.399706
부족분 점수: 23.56734375129605
추가분 점수: 4.648462727371314
기타 점수: 30.0
[Episode 378] - Mean score over last 1 times:58.21580647866736

epoch 378 start, epsilon: 0.001 time: 2020-06-29 03:07:01.009720

부족분 점수: 23.56734375129605
추가분 점수: 4.731021605286257
기타 점수: 30.0
[Episode 379] - Mean score over last 1 times:58.29836535658231

epoch 379 start, epsilon: 0.001 time: 2020-06-29 03:07:13.574899
부족분 점수: 23.56734375129605
추가분 점수: 4.4388176891341935
기타 점수: 30.0
[Episode 380] - Mean score over last 1 times:58.00616144043025

epoch 380 start, epsilon: 0.001 time: 2020-06-29 03:07:27.419656
부족분 점수: 23.56734375129605
추가분 점수: 4.409083270687722
기타 점수: 30.0
[Episode 381] - Mean score over last 1 times:57.976427021983774

epoch 381 start, epsilon: 0.001 time: 2020-06-29 03:07:40.040683
부족분 점수: 30.062360929045433
추가분 점수: 7.390255793784675
기타 점수: 30.0
[Episode 382] - Mean score over last 1 times:67.4526167228301

epoch 382 start, epsilon: 0.001 time: 2020-06-29 03:07:53.550398
부족분 점수: 24.245017715370082
추가분 점수: 11.10557365203898
기타 점수: 30.0
[Episode 383] - Mean score over last 1 times:65.35059136740907

epoch 383 start, epsilon: 0.001 time: 2020-06-29 03:08:07.433676
부족분 점수: 21.773907147682564
추가분 점수: 2.9149818913987757
기타 점수: 30.0
[Episode 384] - Mean score over last 1 times:54.68888903908134

epoch 384 start, epsilon: 0.001 time: 2020-06-29 03:08:21.124529
부족분 점수: 21.765833620832403
추가분 점수: 2.9149818913987757
기타 점수: 30.0
[Episode 385] - Mean score over last 1 times:54.68081551223118

epoch 385 start, epsilon: 0.001 time: 2020-06-29 03:08:34.377182
부족분 점수: 29.2291794095573
추가분 점수: 8.352488093237561
기타 점수: 30.0
[Episode 386] - Mean score over last 1 times:67.58166750279486

epoch 386 start, epsilon: 0.001 time: 2020-06-29 03:08:49.765668
부족분 점수: 21.254325926558554
추가분 점수: 3.311201588408037
기타 점수: 30.0
[Episode 387] - Mean score over last 1 times:54.56552751496659

epoch 387 start, epsilon: 0.001 time: 2020-06-29 03:09:06.160695
부족분 점수: 20.36229951740094
추가분 점수: 0
기타 점수: 30.0
[Episode 388] - Mean score over last 1 times:50.36229951740094

epoch 388 start, epsilon: 0.001 time: 2020-06-29 03:09:19.083650

부족분 점수: 20.36229951740094
추가분 점수: 0.14138502766288807
기타 점수: 30.0

[Episode 389] - Mean score over last 1 times:50.50368454506383

epoch 389 start, epsilon: 0.001 time: 2020-06-29 03:09:32.521663

부족분 점수: 27.595770983412717
추가분 점수: 9.907097914246734
기타 점수: 30.0

[Episode 390] - Mean score over last 1 times:67.50286889765945

epoch 390 start, epsilon: 0.001 time: 2020-06-29 03:09:45.751634

부족분 점수: 19.961171497009445
추가분 점수: 1.3300637802476922
기타 점수: 30.0

[Episode 391] - Mean score over last 1 times:51.29123527725714

epoch 391 start, epsilon: 0.001 time: 2020-06-29 03:09:58.594737

부족분 점수: 19.961171497009445
추가분 점수: 1.3053098799631213
기타 점수: 30.0

[Episode 392] - Mean score over last 1 times:51.266481376972564

epoch 392 start, epsilon: 0.001 time: 2020-06-29 03:10:11.667079

부족분 점수: 20.17161620763587
추가분 점수: 1.3300637802476922
기타 점수: 30.0

[Episode 393] - Mean score over last 1 times:51.50167998788356

epoch 393 start, epsilon: 0.001 time: 2020-06-29 03:10:26.017144

부족분 점수: 20.12448837710129
추가분 점수: 2.419687608580181
기타 점수: 30.0

[Episode 394] - Mean score over last 1 times:52.54417598568147

epoch 394 start, epsilon: 0.001 time: 2020-06-29 03:10:39.167641

부족분 점수: 15.947796108424884
추가분 점수: 6.19267588568402
기타 점수: 30.0

[Episode 395] - Mean score over last 1 times:52.14047199410891

epoch 395 start, epsilon: 0.001 time: 2020-06-29 03:10:52.333629

부족분 점수: 19.539501757712475
추가분 점수: 2.419687608580181
기타 점수: 30.0

[Episode 396] - Mean score over last 1 times:51.959189366292655

epoch 396 start, epsilon: 0.001 time: 2020-06-29 03:11:06.701553

부족분 점수: 19.166174871731386
추가분 점수: 0.22733060877403233
기타 점수: 30.0

[Episode 397] - Mean score over last 1 times:49.39350548050542

epoch 397 start, epsilon: 0.001 time: 2020-06-29 03:11:19.587624

부족분 점수: 19.242560020742943
추가분 점수: 0.21913911258176766
기타 점수: 30.0

[Episode 398] - Mean score over last 1 times:49.461699133324714

epoch 398 start, epsilon: 0.001 time: 2020-06-29 03:11:34.273111

부족분 점수: 19.42629419894977

추가분 점수: 0.21586177679647545

기타 점수: 30.0

[Episode 399] - Mean score over last 1 times:49.64215597574625

epoch 399 start, epsilon: 0.001 time: 2020-06-29 03:11:47.350579

부족분 점수: 19.482808886900887

추가분 점수: 0.425440457278663

기타 점수: 30.0

[Episode 400] - Mean score over last 1 times:49.90824934417955

epoch 400 start, epsilon: 0.001 time: 2020-06-29 03:12:02.112553

부족분 점수: 17.488440386927152

추가분 점수: 0

기타 점수: 30.0

[Episode 401] - Mean score over last 1 times:47.48844038692715

epoch 401 start, epsilon: 0.001 time: 2020-06-29 03:12:14.273567

부족분 점수: 17.46297867058997

추가분 점수: 0

기타 점수: 30.0

[Episode 402] - Mean score over last 1 times:47.46297867058997

epoch 402 start, epsilon: 0.001 time: 2020-06-29 03:12:26.491641

부족분 점수: 17.488440386927152

추가분 점수: 0

기타 점수: 30.0

[Episode 403] - Mean score over last 1 times:47.48844038692715

epoch 403 start, epsilon: 0.001 time: 2020-06-29 03:12:40.533578

부족분 점수: 17.595288660842133

추가분 점수: 0

기타 점수: 30.0

[Episode 404] - Mean score over last 1 times:47.59528866084213

epoch 404 start, epsilon: 0.001 time: 2020-06-29 03:12:54.701941

부족분 점수: 17.593046014494867

추가분 점수: 0

기타 점수: 30.0

[Episode 405] - Mean score over last 1 times:47.59304601449487

epoch 405 start, epsilon: 0.001 time: 2020-06-29 03:13:06.330964

부족분 점수: 17.595288660842133

추가분 점수: 0

기타 점수: 30.0

[Episode 406] - Mean score over last 1 times:47.59528866084213

epoch 406 start, epsilon: 0.001 time: 2020-06-29 03:13:19.012588

부족분 점수: 17.593046014494867

추가분 점수: 0

기타 점수: 30.0

[Episode 407] - Mean score over last 1 times:47.59304601449487

epoch 407 start, epsilon: 0.001 time: 2020-06-29 03:13:31.802586

부족분 점수: 18.801125808466328

추가분 점수: 0

기타 점수: 30.0

[Episode 408] - Mean score over last 1 times:48.801125808466324

epoch 408 start, epsilon: 0.001 time: 2020-06-29 03:13:44.693900

부족분 점수: 18.801125808466328

추가분 점수: 0

기타 점수: 30.0

[Episode 409] - Mean score over last 1 times:48.801125808466324

epoch 409 start, epsilon: 0.001 time: 2020-06-29 03:13:57.272570

부족분 점수: 18.801125808466328

추가분 점수: 0

기타 점수: 30.0

[Episode 410] - Mean score over last 1 times:48.801125808466324

epoch 410 start, epsilon: 0.001 time: 2020-06-29 03:14:13.013529

부족분 점수: 18.801125808466328

추가분 점수: 0

기타 점수: 30.0

[Episode 411] - Mean score over last 1 times:48.801125808466324

epoch 411 start, epsilon: 0.001 time: 2020-06-29 03:14:26.543300

부족분 점수: 18.801125808466328

추가분 점수: 0

기타 점수: 30.0

[Episode 412] - Mean score over last 1 times:48.801125808466324

epoch 412 start, epsilon: 0.001 time: 2020-06-29 03:14:39.029518

부족분 점수: 18.801125808466328

추가분 점수: 0

기타 점수: 30.0

[Episode 413] - Mean score over last 1 times:48.801125808466324

epoch 413 start, epsilon: 0.001 time: 2020-06-29 03:14:51.760543

부족분 점수: 18.861142711261124

추가분 점수: 0

기타 점수: 30.0

[Episode 414] - Mean score over last 1 times:48.861142711261124

epoch 414 start, epsilon: 0.001 time: 2020-06-29 03:15:04.415521

부족분 점수: 18.801125808466328

추가분 점수: 0

기타 점수: 30.0

[Episode 415] - Mean score over last 1 times:48.801125808466324

epoch 415 start, epsilon: 0.001 time: 2020-06-29 03:15:18.149537

부족분 점수: 18.801125808466328

추가분 점수: 0

기타 점수: 30.0

[Episode 416] - Mean score over last 1 times:48.801125808466324

epoch 416 start, epsilon: 0.001 time: 2020-06-29 03:15:33.067199

부족분 점수: 18.801125808466328

추가분 점수: 0

기타 점수: 30.0

[Episode 417] - Mean score over last 1 times:48.801125808466324

epoch 417 start, epsilon: 0.001 time: 2020-06-29 03:15:48.359592

부족분 점수: 18.801125808466328

추가분 점수: 0

기타 점수: 30.0

[Episode 418] - Mean score over last 1 times:48.801125808466324

epoch 418 start, epsilon: 0.001 time: 2020-06-29 03:16:01.454302

부족분 점수: 19.98040142140769

추가분 점수: 0

기타 점수: 30.0

[Episode 419] - Mean score over last 1 times:49.98040142140769

epoch 419 start, epsilon: 0.001 time: 2020-06-29 03:16:14.525340

부족분 점수: 19.98040142140769

추가분 점수: 0

기타 점수: 30.0

[Episode 420] - Mean score over last 1 times:49.98040142140769

epoch 420 start, epsilon: 0.001 time: 2020-06-29 03:16:28.303285

부족분 점수: 19.98040142140769

추가분 점수: 0

기타 점수: 30.0

[Episode 421] - Mean score over last 1 times:49.98040142140769

epoch 421 start, epsilon: 0.001 time: 2020-06-29 03:16:41.620293

부족분 점수: 19.98040142140769

추가분 점수: 0

기타 점수: 30.0

[Episode 422] - Mean score over last 1 times:49.98040142140769

epoch 422 start, epsilon: 0.001 time: 2020-06-29 03:16:54.620247

부족분 점수: 20.00005222601083

추가분 점수: 0

기타 점수: 30.0

[Episode 423] - Mean score over last 1 times:50.00005222601083

epoch 423 start, epsilon: 0.001 time: 2020-06-29 03:17:09.236293

부족분 점수: 19.98040142140769

추가분 점수: 0

기타 점수: 30.0

[Episode 424] - Mean score over last 1 times:49.98040142140769

epoch 424 start, epsilon: 0.001 time: 2020-06-29 03:17:22.599336

부족분 점수: 19.98040142140769

추가분 점수: 0

기타 점수: 30.0

[Episode 425] - Mean score over last 1 times:49.98040142140769

epoch 425 start, epsilon: 0.001 time: 2020-06-29 03:17:35.940321

부족분 점수: 20.020412689937555

추가분 점수: 0

기타 점수: 30.0

[Episode 426] - Mean score over last 1 times:50.02041268993756

epoch 426 start, epsilon: 0.001 time: 2020-06-29 03:17:50.021301

부족분 점수: 24.008734953916687

추가분 점수: 0

기타 점수: 30.0

[Episode 427] - Mean score over last 1 times:54.00873495391669

epoch 427 start, epsilon: 0.001 time: 2020-06-29 03:18:03.243359

부족분 점수: 23.69360013246974

추가분 점수: 0

기타 점수: 30.0

[Episode 428] - Mean score over last 1 times:53.69360013246974

epoch 428 start, epsilon: 0.001 time: 2020-06-29 03:18:16.934323

부족분 점수: 22.079466176438512

추가분 점수: 0

기타 점수: 30.0

[Episode 429] - Mean score over last 1 times:52.079466176438515

epoch 429 start, epsilon: 0.001 time: 2020-06-29 03:18:30.602282

부족분 점수: 20.741441923293507

추가분 점수: 0

기타 점수: 30.0

[Episode 430] - Mean score over last 1 times:50.74144192329351

epoch 430 start, epsilon: 0.001 time: 2020-06-29 03:18:44.149616

부족분 점수: 20.741441923293507

추가분 점수: 0

기타 점수: 30.0

[Episode 431] - Mean score over last 1 times:50.74144192329351

epoch 431 start, epsilon: 0.001 time: 2020-06-29 03:18:59.670514

부족분 점수: 20.741441923293507

추가분 점수: 0

기타 점수: 30.0

[Episode 432] - Mean score over last 1 times:50.74144192329351

epoch 432 start, epsilon: 0.001 time: 2020-06-29 03:19:13.846416

부족분 점수: 20.741441923293507

추가분 점수: 0

기타 점수: 30.0

[Episode 433] - Mean score over last 1 times:50.74144192329351

epoch 433 start, epsilon: 0.001 time: 2020-06-29 03:19:26.949352

부족분 점수: 25.775474849642855

추가분 점수: 5.741867718887659

기타 점수: 30.0

[Episode 434] - Mean score over last 1 times:61.51734256853051

epoch 434 start, epsilon: 0.001 time: 2020-06-29 03:19:39.903264

부족분 점수: 30.50926965610401

추가분 점수: 10.133908106183469

기타 점수: 30.0

[Episode 435] - Mean score over last 1 times:70.64317776228748

epoch 435 start, epsilon: 0.001 time: 2020-06-29 03:19:54.781184

부족분 점수: 25.61406575500532

추가분 점수: 5.741867718887659

기타 점수: 30.0

[Episode 436] - Mean score over last 1 times:61.355933473892975

epoch 436 start, epsilon: 0.001 time: 2020-06-29 03:20:07.440237

부족분 점수: 25.61406575500532

추가분 점수: 5.741867718887659

기타 점수: 30.0

[Episode 437] - Mean score over last 1 times:61.355933473892975

epoch 437 start, epsilon: 0.001 time: 2020-06-29 03:20:21.474283

부족분 점수: 25.61406575500532

추가분 점수: 5.741867718887659

기타 점수: 30.0

[Episode 438] - Mean score over last 1 times:61.355933473892975

epoch 438 start, epsilon: 0.001 time: 2020-06-29 03:20:34.997236

부족분 점수: 25.61406575500532

추가분 점수: 5.741867718887659

기타 점수: 30.0

[Episode 439] - Mean score over last 1 times:61.355933473892975

epoch 439 start, epsilon: 0.001 time: 2020-06-29 03:20:48.362266
부족분 점수: 15.131879893692417
추가분 점수: 6.437773783341316
기타 점수: 30.0
[Episode 440] - Mean score over last 1 times:51.569653677033735

epoch 440 start, epsilon: 0.001 time: 2020-06-29 03:21:02.706261
부족분 점수: 15.131879893692417
추가분 점수: 6.265903511523363
기타 점수: 30.0
[Episode 441] - Mean score over last 1 times:51.397783405215776

epoch 441 start, epsilon: 0.001 time: 2020-06-29 03:21:15.656019
부족분 점수: 15.131879893692417
추가분 점수: 8.42037760634675
기타 점수: 30.0
[Episode 442] - Mean score over last 1 times:53.55225750003917

epoch 442 start, epsilon: 0.001 time: 2020-06-29 03:21:29.209555
부족분 점수: 25.54603215954862
추가분 점수: 7.792105454761062
기타 점수: 30.0
[Episode 443] - Mean score over last 1 times:63.33813761430968

epoch 443 start, epsilon: 0.001 time: 2020-06-29 03:21:44.094333
부족분 점수: 15.131879893692417
추가분 점수: 8.42037760634675
기타 점수: 30.0
[Episode 444] - Mean score over last 1 times:53.55225750003917

epoch 444 start, epsilon: 0.001 time: 2020-06-29 03:21:57.872186
부족분 점수: 15.237328817729074
추가분 점수: 8.365824158708088
기타 점수: 30.0
[Episode 445] - Mean score over last 1 times:53.60315297643716

epoch 445 start, epsilon: 0.001 time: 2020-06-29 03:22:11.236718
부족분 점수: 15.153868580309627
추가분 점수: 8.42037760634675
기타 점수: 30.0
[Episode 446] - Mean score over last 1 times:53.57424618665638

epoch 446 start, epsilon: 0.001 time: 2020-06-29 03:22:25.435069
부족분 점수: 15.159160304053692
추가분 점수: 8.42037760634675
기타 점수: 30.0
[Episode 447] - Mean score over last 1 times:53.57953791040045

epoch 447 start, epsilon: 0.001 time: 2020-06-29 03:22:40.588243
부족분 점수: 19.526293185150735
추가분 점수: 8.029691408790498
기타 점수: 30.0
[Episode 448] - Mean score over last 1 times:57.55598459394123

epoch 448 start, epsilon: 0.001 time: 2020-06-29 03:22:55.469220
부족분 점수: 19.852951522280694
추가분 점수: 7.844468482063284
기타 점수: 30.0
[Episode 449] - Mean score over last 1 times:57.69742000434398

epoch 449 start, epsilon: 0.001 time: 2020-06-29 03:23:09.826194
부족분 점수: 19.891084190479937
추가분 점수: 7.8346008381353105
기타 점수: 30.0
[Episode 450] - Mean score over last 1 times:57.725685028615246

epoch 450 start, epsilon: 0.001 time: 2020-06-29 03:23:24.518206
부족분 점수: 19.852951522280694
추가분 점수: 7.8609841899576764
기타 점수: 30.0
[Episode 451] - Mean score over last 1 times:57.71393571223837

epoch 451 start, epsilon: 0.001 time: 2020-06-29 03:23:41.701695
부족분 점수: 22.415170365855495
추가분 점수: 7.065270532272141
기타 점수: 30.0
[Episode 452] - Mean score over last 1 times:59.48044089812764

epoch 452 start, epsilon: 0.001 time: 2020-06-29 03:23:57.991275
부족분 점수: 22.415170365855495
추가분 점수: 7.098301948060925
기타 점수: 30.0
[Episode 453] - Mean score over last 1 times:59.513472313916424

epoch 453 start, epsilon: 0.001 time: 2020-06-29 03:24:13.488269
부족분 점수: 22.415170365855495
추가분 점수: 7.040516631987572
기타 점수: 30.0
[Episode 454] - Mean score over last 1 times:59.45568699784307

epoch 454 start, epsilon: 0.001 time: 2020-06-29 03:24:27.239269
부족분 점수: 22.449724016253963
추가분 점수: 6.1231538489187525
기타 점수: 30.0
[Episode 455] - Mean score over last 1 times:58.572877865172714

epoch 455 start, epsilon: 0.001 time: 2020-06-29 03:24:41.622329
부족분 점수: 22.415170365855495
추가분 점수: 6.140744798212518
기타 점수: 30.0
[Episode 456] - Mean score over last 1 times:58.55591516406801

epoch 456 start, epsilon: 0.001 time: 2020-06-29 03:24:55.830242
부족분 점수: 22.425054906434028
추가분 점수: 6.136072106302666
기타 점수: 30.0
[Episode 457] - Mean score over last 1 times:58.56112701273669

epoch 457 start, epsilon: 0.001 time: 2020-06-29 03:25:09.404257
부족분 점수: 22.415170365855495
추가분 점수: 6.198530114285871
기타 점수: 30.0
[Episode 458] - Mean score over last 1 times:58.61370048014137

epoch 458 start, epsilon: 0.001 time: 2020-06-29 03:25:22.053230
부족분 점수: 22.43490565371144
추가분 점수: 6.130697742576762
기타 점수: 30.0
[Episode 459] - Mean score over last 1 times:58.5656033962882

epoch 459 start, epsilon: 0.001 time: 2020-06-29 03:25:36.820168

부족분 점수: 22.31189496550472

추가분 점수: 6.29607847173175

기타 점수: 30.0

[Episode 460] - Mean score over last 1 times:58.60797343723647

epoch 460 start, epsilon: 0.001 time: 2020-06-29 03:25:49.819243

부족분 점수: 22.2964360663

추가분 점수: 6.29607847173175

기타 점수: 30.0

[Episode 461] - Mean score over last 1 times:58.59251453803175

epoch 461 start, epsilon: 0.001 time: 2020-06-29 03:26:04.404544

부족분 점수: 22.321762609432692

추가분 점수: 4.609773084127193

기타 점수: 30.0

[Episode 462] - Mean score over last 1 times:56.93153569355989

epoch 462 start, epsilon: 0.001 time: 2020-06-29 03:26:18.166787

부족분 점수: 32.31616981809681

추가분 점수: 4.884360245191905

기타 점수: 30.0

[Episode 463] - Mean score over last 1 times:67.20053006328871

epoch 463 start, epsilon: 0.001 time: 2020-06-29 03:26:32.002152

부족분 점수: 24.07113274838153

추가분 점수: 5.32945058543822

기타 점수: 30.0

[Episode 464] - Mean score over last 1 times:59.40058333381975

epoch 464 start, epsilon: 0.001 time: 2020-06-29 03:26:45.039158

부족분 점수: 24.0675445142259

추가분 점수: 5.349016292364894

기타 점수: 30.0

[Episode 465] - Mean score over last 1 times:59.416560806590795

epoch 465 start, epsilon: 0.001 time: 2020-06-29 03:26:57.980202

부족분 점수: 24.09419667639811

추가분 점수: 5.290748039297308

기타 점수: 30.0

[Episode 466] - Mean score over last 1 times:59.38494471569542

epoch 466 start, epsilon: 0.001 time: 2020-06-29 03:27:12.101184

부족분 점수: 24.07113274838153

추가분 점수: 3.439109847582995

기타 점수: 30.0

[Episode 467] - Mean score over last 1 times:57.51024259596453

epoch 467 start, epsilon: 0.001 time: 2020-06-29 03:27:25.754222

부족분 점수: 24.222978338801195

추가분 점수: 3.303488113820754

기타 점수: 30.0

[Episode 468] - Mean score over last 1 times:57.526466452621946

epoch 468 start, epsilon: 0.001 time: 2020-06-29 03:27:39.404185

부족분 점수: 24.222978338801195

추가분 점수: 3.2704763595889874

기타 점수: 30.0

[Episode 469] - Mean score over last 1 times:57.49345469839018

epoch 469 start, epsilon: 0.001 time: 2020-06-29 03:27:53.271006

부족분 점수: 24.616570453042215

추가분 점수: 3.293010961625249

기타 점수: 30.0

[Episode 470] - Mean score over last 1 times:57.909581414667464

epoch 470 start, epsilon: 0.001 time: 2020-06-29 03:28:07.185416

부족분 점수: 24.679479755201328

추가분 점수: 3.3748362176939883

기타 점수: 30.0

[Episode 471] - Mean score over last 1 times:58.05431597289532

epoch 471 start, epsilon: 0.001 time: 2020-06-29 03:28:20.057715

부족분 점수: 24.666910183242642

추가분 점수: 5.020592716068992

기타 점수: 30.0

[Episode 472] - Mean score over last 1 times:59.68750289931164

epoch 472 start, epsilon: 0.001 time: 2020-06-29 03:28:34.122673

부족분 점수: 24.6826194600875

추가분 점수: 5.008922967555667

기타 점수: 30.0

[Episode 473] - Mean score over last 1 times:59.69154242764317

epoch 473 start, epsilon: 0.001 time: 2020-06-29 03:28:49.516683

부족분 점수: 24.6826194600875

추가분 점수: 5.008922967555667

기타 점수: 30.0

[Episode 474] - Mean score over last 1 times:59.69154242764317

epoch 474 start, epsilon: 0.001 time: 2020-06-29 03:29:03.684722

부족분 점수: 24.50358101467766

추가분 점수: 5.193076797120073

기타 점수: 30.0

[Episode 475] - Mean score over last 1 times:59.696657811797735

epoch 475 start, epsilon: 0.001 time: 2020-06-29 03:29:19.732611

부족분 점수: 24.531849111067217

추가분 점수: 5.164001040833675

기타 점수: 30.0

[Episode 476] - Mean score over last 1 times:59.69585015190089

epoch 476 start, epsilon: 0.001 time: 2020-06-29 03:29:33.364602

부족분 점수: 24.531849111067217

추가분 점수: 5.164001040833675

기타 점수: 30.0

[Episode 477] - Mean score over last 1 times:59.69585015190089

epoch 477 start, epsilon: 0.001 time: 2020-06-29 03:29:47.423574

부족분 점수: 24.531849111067217

추가분 점수: 2.984753384168699

기타 점수: 30.0

[Episode 478] - Mean score over last 1 times:57.516602495235915

epoch 478 start, epsilon: 0.001 time: 2020-06-29 03:30:02.654446

부족분 점수: 22.08951353928609

추가분 점수: 1.7474835511106779

기타 점수: 30.0

[Episode 479] - Mean score over last 1 times:53.83699709039677

epoch 479 start, epsilon: 0.001 time: 2020-06-29 03:30:17.423618

부족분 점수: 29.35770147796538

추가분 점수: 1.9488185093897759

기타 점수: 30.0

[Episode 480] - Mean score over last 1 times:61.30651998735516

epoch 480 start, epsilon: 0.001 time: 2020-06-29 03:30:35.512558

부족분 점수: 29.31374560955896

추가분 점수: 0

기타 점수: 30.0

[Episode 481] - Mean score over last 1 times:59.313745609558964

epoch 481 start, epsilon: 0.001 time: 2020-06-29 03:30:52.203557

부족분 점수: 29.35770147796538

추가분 점수: 0

기타 점수: 30.0

[Episode 482] - Mean score over last 1 times:59.35770147796538

epoch 482 start, epsilon: 0.001 time: 2020-06-29 03:31:09.199840

부족분 점수: 29.40035476821943

추가분 점수: 0

기타 점수: 30.0

[Episode 483] - Mean score over last 1 times:59.40035476821943

epoch 483 start, epsilon: 0.001 time: 2020-06-29 03:31:27.117290

부족분 점수: 29.35770147796538

추가분 점수: 0

기타 점수: 30.0

[Episode 484] - Mean score over last 1 times:59.35770147796538

epoch 484 start, epsilon: 0.001 time: 2020-06-29 03:31:44.713518

부족분 점수: 29.381604094273484

추가분 점수: 0

기타 점수: 30.0

[Episode 485] - Mean score over last 1 times:59.381604094273484

epoch 485 start, epsilon: 0.001 time: 2020-06-29 03:32:02.604778

부족분 점수: 29.437588841820624

추가분 점수: 0

기타 점수: 30.0

[Episode 486] - Mean score over last 1 times:59.43758884182063

epoch 486 start, epsilon: 0.001 time: 2020-06-29 03:32:19.674546

부족분 점수: 29.467947514702388

추가분 점수: 0

기타 점수: 30.0

[Episode 487] - Mean score over last 1 times:59.46794751470239

epoch 487 start, epsilon: 0.001 time: 2020-06-29 03:32:37.527596

부족분 점수: 29.42529422444835

추가분 점수: 0

기타 점수: 30.0

[Episode 488] - Mean score over last 1 times:59.42529422444835

epoch 488 start, epsilon: 0.001 time: 2020-06-29 03:32:55.101505

부족분 점수: 29.42529422444835

추가분 점수: 0

기타 점수: 30.0

[Episode 489] - Mean score over last 1 times:59.42529422444835

epoch 489 start, epsilon: 0.001 time: 2020-06-29 03:33:13.537523

부족분 점수: 29.42529422444835

추가분 점수: 0

기타 점수: 30.0

[Episode 490] - Mean score over last 1 times:59.42529422444835

epoch 490 start, epsilon: 0.001 time: 2020-06-29 03:33:31.006522

부족분 점수: 29.42529422444835

추가분 점수: 0

기타 점수: 30.0

[Episode 491] - Mean score over last 1 times:59.42529422444835

epoch 491 start, epsilon: 0.001 time: 2020-06-29 03:33:47.590559

부족분 점수: 29.42529422444835

추가분 점수: 0

기타 점수: 30.0

[Episode 492] - Mean score over last 1 times:59.42529422444835

epoch 492 start, epsilon: 0.001 time: 2020-06-29 03:34:06.789535

부족분 점수: 29.431441533134482

추가분 점수: 0

기타 점수: 30.0

[Episode 493] - Mean score over last 1 times:59.43144153313448

epoch 493 start, epsilon: 0.001 time: 2020-06-29 03:34:23.475421

부족분 점수: 29.632193710575123

추가분 점수: 0

기타 점수: 30.0

[Episode 494] - Mean score over last 1 times:59.63219371057512

epoch 494 start, epsilon: 0.001 time: 2020-06-29 03:34:35.869940

부족분 점수: 29.674708755506384

추가분 점수: 0

기타 점수: 30.0

[Episode 495] - Mean score over last 1 times:59.67470875550639

epoch 495 start, epsilon: 0.001 time: 2020-06-29 03:34:53.673880

부족분 점수: 29.613756392694135

추가분 점수: 0

기타 점수: 30.0

[Episode 496] - Mean score over last 1 times:59.613756392694135

epoch 496 start, epsilon: 0.001 time: 2020-06-29 03:35:10.124874

부족분 점수: 26.307766960166607

추가분 점수: 0

기타 점수: 30.0

[Episode 497] - Mean score over last 1 times:56.3077669601666

epoch 497 start, epsilon: 0.001 time: 2020-06-29 03:35:27.832887

부족분 점수: 26.30572092938951

추가분 점수: 0

기타 점수: 30.0

[Episode 498] - Mean score over last 1 times:56.30572092938951

epoch 498 start, epsilon: 0.001 time: 2020-06-29 03:35:43.825771

부족분 점수: 26.34677057389935

추가분 점수: 0

기타 점수: 30.0

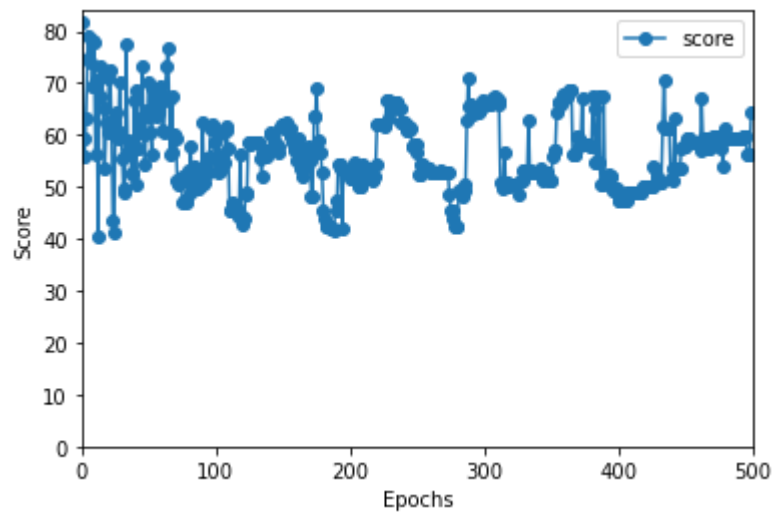
[Episode 499] - Mean score over last 1 times:56.34677057389935

epoch 499 start, epsilon: 0.001 time: 2020-06-29 03:35:55.994231

부족분 점수: 31.695545090555292

추가분 점수: 2.787656105850449

기타 점수: 30.0
[Episode 500] - Mean score over last 1 times:64.48320119640574



In []: