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import random
import numpy as np
from collections import deque
import tensorflow as tf
from keras.models import Sequential
from sklearn.model_selection import train_test_split
from keras.layers import Dense
from keras.optimizers import Adam
import os
import pandas as pd
import matplotlib.pyplot as plt
from matplotlib import style
style.use('ggplot')
batch_size = 64

class DQNAgent:

    def __init__(self, state_size, action_size):
        self.state_size = state_size
        self.action_size = action_size
        self.memory = deque(maxlen=2000)
        self.gamma = 0.95
        self.epsilon = 1.0
        self.epsilon_decay = 0.9995
        self.epsilon_min = 0.1
        self.learning_rate = 0.001
        self.model = self._build_model()

    def _build_model(self):

        model = Sequential()
        model.add(Dense(512, input_dim = self.state_size, activation = 'relu'))
        model.add(Dense(512, activation = 'relu'))
        model.add(Dense(512, activation = 'relu'))
        model.add(Dense(self.action_size, activation = 'linear'))
        model.compile(loss='mse',optimizer = Adam(lr = self.learning_rate))
        return model

    def remember(self, state, action, reward, next_state):
        self.memory.append((state, action, reward, next_state))

    def act(self, state):
        if np.random.rand() <= self.epsilon:
            return random.randrange(self.action_size)
        act_values = self.model.predict(state)
        return np.argmax(act_values[0])
```

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def replay (self, batch_size):

    done = False
    minibatch = random.sample(self.memory, batch_size)
    for (state, action, reward, next_state) in minibatch:
        target = reward
        if not done:
            target = (reward + self.gamma * np.amax(self.model.predict(next_state)[0]))
        target_f = self.model.predict(state)
        target_f[0][action] = target

        self.model.fit(state, target_f, epochs=1, verbose = 0)

    if self.epsilon > self.epsilon_min:
        self.epsilon *= self.epsilon_decay

def save(self,name):
    self.model.save(name)

def load(self, name):
    new_model = tf.keras.models.load_model(name)

df = pd.read_csv('FullData_new.csv')
X = df.drop(['Id1','Id','Date','Adj Close'],1)
# y = df['Label1']
X_test = np.array(X)
# y_test = np.array(df['Label1'])

state_size = len(X_test[:,1])
action_size = 4
agent = DQNAgent(state_size,action_size)

output_dir = 'Models'
n_episodes = 5000
Accuracy = []
Epoch = []
epo = []
acc = []
print('Started..!')
for e in range(n_episodes) :
#    state = env.reset()
    reward = 0.0
    done = False
    bid = 0.0
    act = 0
    count = 0
```

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pre = 0.0
for i in range(len(X_test)-1):
    print('Ongoing {} / {}'.format(i,len(X_test)), end = '\r')
    state = X_test[:,i]
    me = X['Close'][i]
    state = np.reshape(state, [1, state_size])
    action = agent.act(state)
    if action == 1 and act == 0:
        bid = me
        act = 1

    elif action == 2 and act == 0:
        bid = me
        act = 2
    elif action == 3 and act != 0:
        count += 1
        if act == 1: # Buy
            r = (me - bid )
            if r <=0:
                reward += r*10000 -100
            elif r > 0:
                reward += r*1000
                pre +=1
        else: # Sell
            r = (bid - me)
            if r <=0:
                reward += r*10000 -100
            elif r > 0:
                reward += r*1000
                pre += 1
    act == 0
    bid == 0
    elif action == 0:
        reward += 1
#     next_state, reward, done, _ = env.step(action) # Must edit
next_state = X_test[:,i+1]
next_state = np.reshape(next_state, [1, state_size])
agent.remember(state, action, reward, next_state)
#     state = next_state
done = True
if done:
    print("episode: {}/{}, score:{} , e: {:.2} , Win%: {} %".format(e+1,n_episodes, reward, agent.epsilon,(pre*100/count)))
    acc.append(reward)
    epo.append(e)

if len(agent.memory) > batch_size:
    agent.replay(batch_size)

if e % 50 == 0 and e >0:

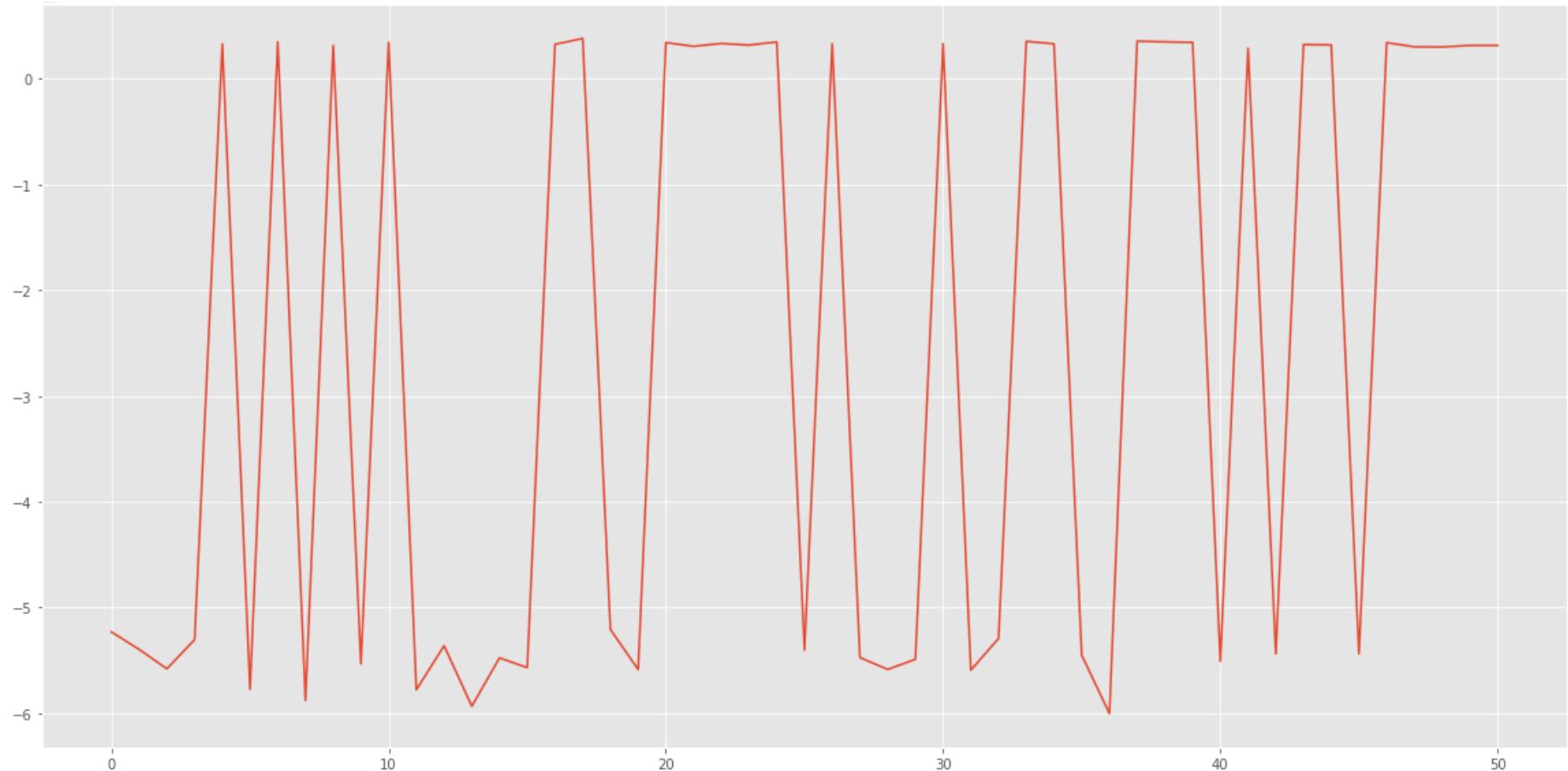
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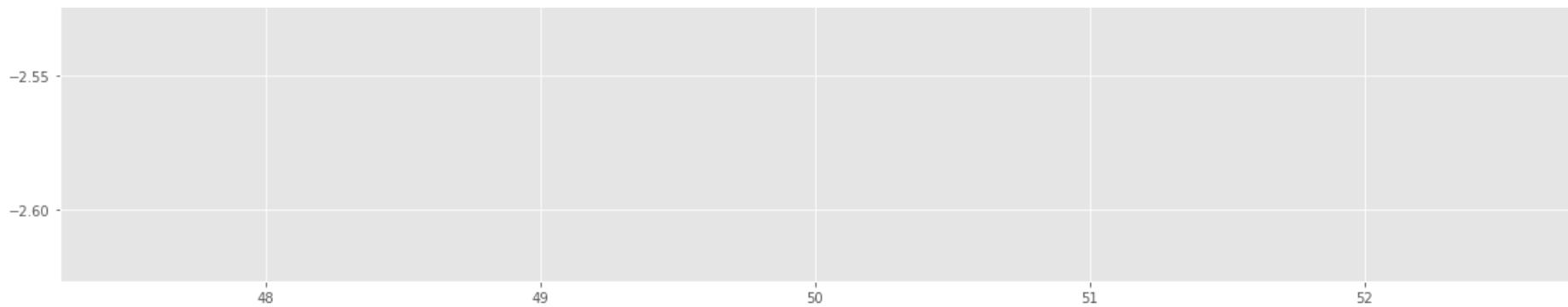
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Accuracy.append(np.mean(acc[-50:]))
Epoch.append(e)
plt.figure(figsize=(20,10))
plt.plot(epo,acc)
plt.figure(figsize=(20,10))
plt.plot(Epoch,Accuracy)
plt.show()
if e % 100 == 0 and e >0:
    agent.save(output_dir + "/model_" + '{:04d}'.format(e) + ".h5")
print('Done...')
```

Started..!

episode: 1/5000, score:-52308712.64500074, e: 1.0 , Win%: 44.52463912394226 %
episode: 2/5000, score:-53959472.99200066, e: 1.0 , Win%: 44.860267314702305 %
episode: 3/5000, score:-55793792.538000934, e: 1.0 , Win%: 43.74384236453202 %
episode: 4/5000, score:-53044947.04800075, e: 1.0 , Win%: 44.90049751243781 %
episode: 5/5000, score:3291777.6570000295, e: 1.0 , Win%: 54.77486392874815 %
episode: 6/5000, score:-57727255.111001045, e: 1.0 , Win%: 43.53192499406599 %
episode: 7/5000, score:3485294.3819999723, e: 1.0 , Win%: 55.111323916686615 %
episode: 8/5000, score:-58786794.71800099, e: 1.0 , Win%: 44.11139957517111 %
episode: 9/5000, score:3136347.5080000227, e: 1.0 , Win%: 55.7451078775715 %
episode: 10/5000, score:-55331714.279000945, e: 1.0 , Win%: 44.650358290091425 %
episode: 11/5000, score:3427003.513000026, e: 1.0 , Win%: 57.4866987585508 %
episode: 12/5000, score:-57779962.6460008, e: 0.99 , Win%: 43.35035254072453 %
episode: 13/5000, score:-53610170.219000906, e: 0.99 , Win%: 45.738498789346245 %
episode: 14/5000, score:-59336123.30500117, e: 0.99 , Win%: 44.217525528378054 %
episode: 15/5000, score:-54759054.25400088, e: 0.99 , Win%: 44.922254616132165 %
episode: 16/5000, score:-55692543.57500098, e: 0.99 , Win%: 46.2457337883959 %
episode: 17/5000, score:3245364.768, e: 0.99 , Win%: 55.97653385480323 %
episode: 18/5000, score:3796216.7780000106, e: 0.99 , Win%: 56.35307781649245 %
episode: 19/5000, score:-52076987.00400087, e: 0.99 , Win%: 45.83751253761284 %
episode: 20/5000, score:-55857703.46000094, e: 0.99 , Win%: 44.64831804281346 %
episode: 21/5000, score:3407514.7420000224, e: 0.99 , Win%: 56.083015267175576 %
episode: 22/5000, score:3054753.006000028, e: 0.99 , Win%: 55.32245532245532 %
episode: 23/5000, score:3325799.9240000164, e: 0.99 , Win%: 56.13991565368395 %
episode: 24/5000, score:3172728.22800002, e: 0.99 , Win%: 56.29447852760736 %
episode: 25/5000, score:3467324.3549999977, e: 0.99 , Win%: 56.97617890131259 %
episode: 26/5000, score:-54022789.93500087, e: 0.99 , Win%: 44.30506773707978 %
episode: 27/5000, score:3298973.775999986, e: 0.99 , Win%: 55.53329994992489 %
episode: 28/5000, score:-54734807.58399908, e: 0.99 , Win%: 43.77349035329491 %
episode: 29/5000, score:-55851728.31100106, e: 0.99 , Win%: 43.69747899159664 %
episode: 30/5000, score:-54895337.29900096, e: 0.99 , Win%: 44.39217628125774 %
episode: 31/5000, score:3299429.0109999855, e: 0.99 , Win%: 55.632927132554094 %
episode: 32/5000, score:-55923727.2710009, e: 0.98 , Win%: 43.49899598393574 %
episode: 33/5000, score:-52927558.84800071, e: 0.98 , Win%: 44.294967613353265 %
episode: 34/5000, score:3520879.3770000082, e: 0.98 , Win%: 56.24845945279763 %
episode: 35/5000, score:3293007.4909999813, e: 0.98 , Win%: 56.25777556606121 %
episode: 36/5000, score:-54508819.107000984, e: 0.98 , Win%: 43.506656618939964 %
episode: 37/5000, score:-60026571.30800098, e: 0.98 , Win%: 43.55687800411994 %
episode: 38/5000, score:3542393.4219999667, e: 0.98 , Win%: 56.36067101584343 %
episode: 39/5000, score:3476437.6209999905, e: 0.98 , Win%: 56.83222139856684 %
episode: 40/5000, score:3427036.555999992, e: 0.98 , Win%: 57.014028056112224 %
episode: 41/5000, score:-55089939.16800098, e: 0.98 , Win%: 45.05522088353413 %
episode: 42/5000, score:2871488.0490000034, e: 0.98 , Win%: 54.54086781029263 %
episode: 43/5000, score:-54381854.62399922, e: 0.98 , Win%: 44.742785445420324 %
episode: 44/5000, score:3219376.1689999904, e: 0.98 , Win%: 55.530642750373694 %
episode: 45/5000, score:3189322.370999997, e: 0.98 , Win%: 55.460277427490546 %
episode: 46/5000, score:-54380552.25400082, e: 0.98 , Win%: 44.083354006450016 %
episode: 47/5000, score:3400753.9089999716, e: 0.98 , Win%: 55.760598503740646 %
episode: 48/5000, score:3006146.859999992, e: 0.98 , Win%: 55.062630480167016 %
episode: 49/5000, score:2994089.9079999896, e: 0.98 , Win%: 54.49536689206111 %
episode: 50/5000, score:3133957.062000024, e: 0.98 , Win%: 55.886736214605065 %
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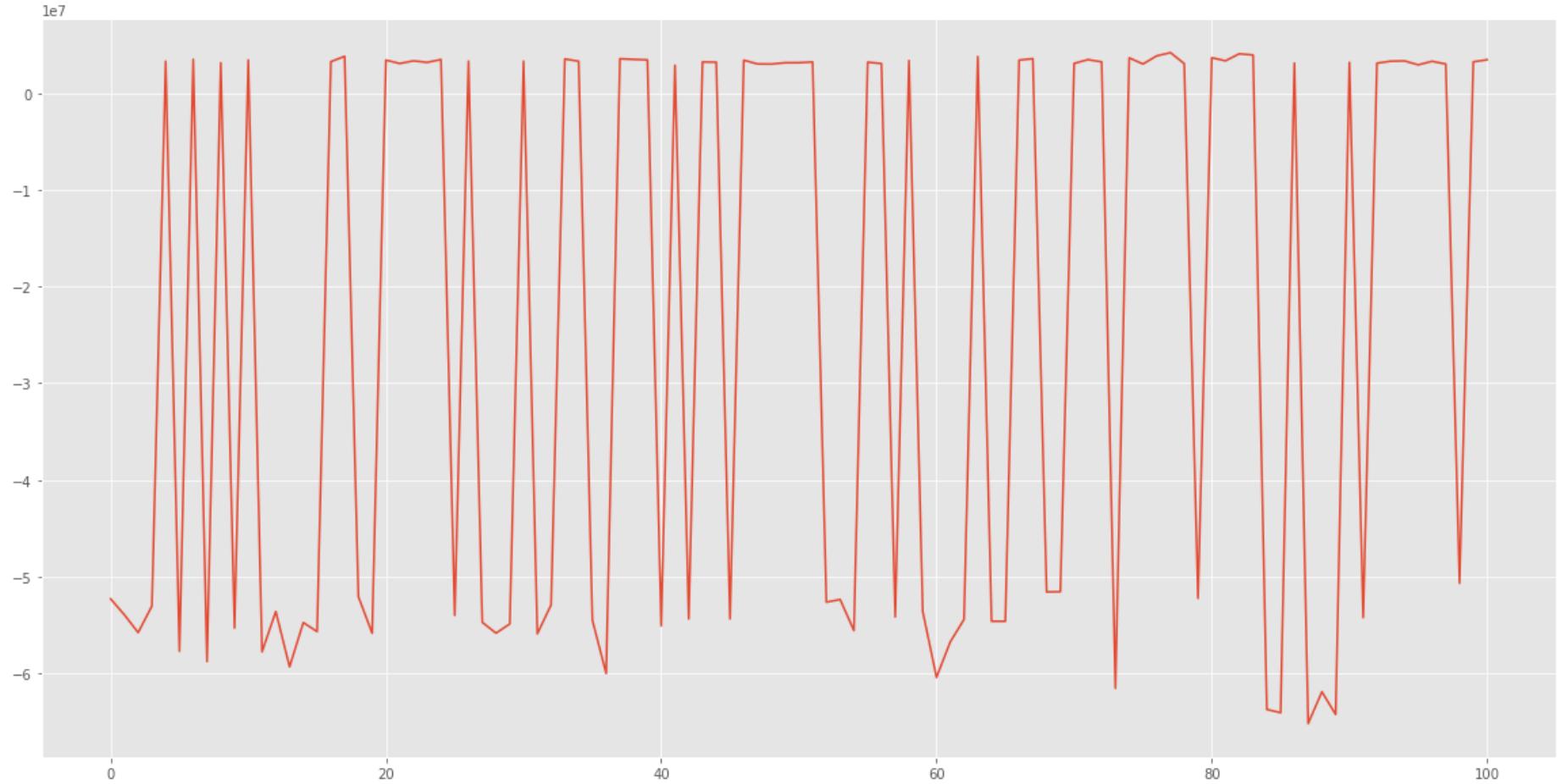
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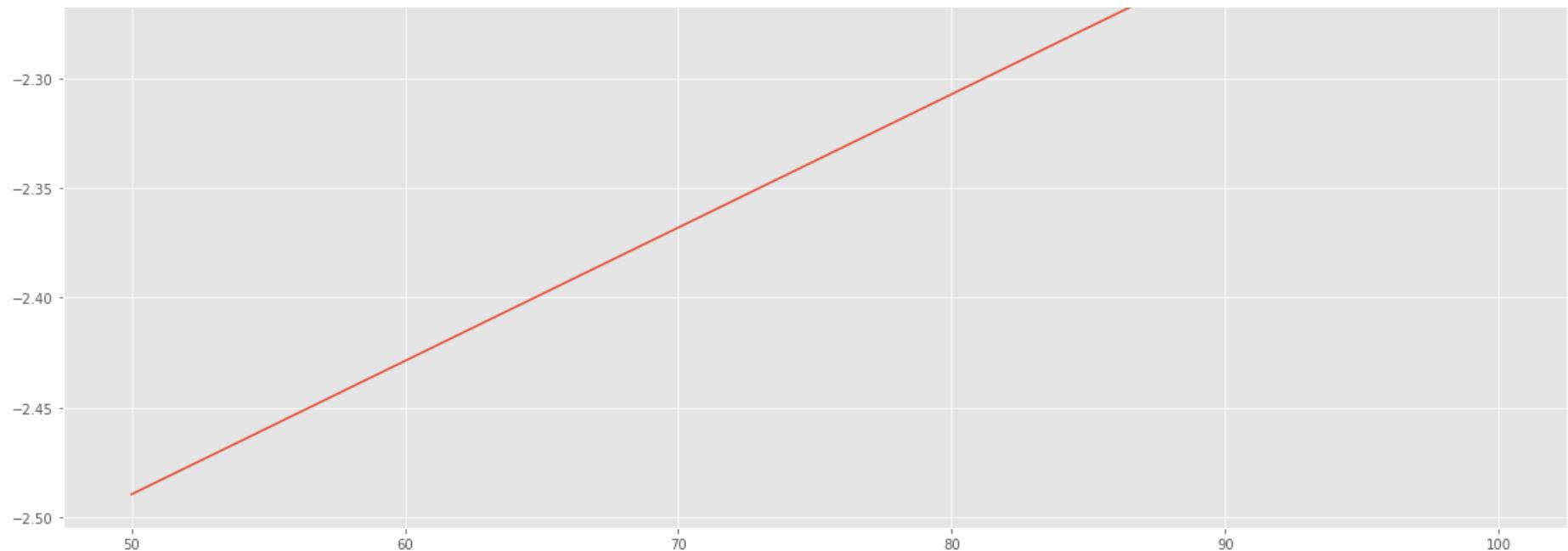




episode: 52/5000, score:3215273.7609999934, e: 0.97 , Win%: 55.061037639877924 %
episode: 53/5000, score:-52650691.99100093, e: 0.97 , Win%: 44.469812278031455 %
episode: 54/5000, score:-52371948.826000825, e: 0.97 , Win%: 43.19876574955001 %
episode: 55/5000, score:-55581881.24100077, e: 0.97 , Win%: 43.084300858152446 %
episode: 56/5000, score:3193578.2700000196, e: 0.97 , Win%: 56.12399193548387 %
episode: 57/5000, score:3047716.680999993, e: 0.97 , Win%: 55.832274459974585 %
episode: 58/5000, score:-54178205.50299925, e: 0.97 , Win%: 45.45229856648542 %
episode: 59/5000, score:3366026.71499999, e: 0.97 , Win%: 56.639364606602136 %
episode: 60/5000, score:-53599885.436000645, e: 0.97 , Win%: 43.67523542886231 %
episode: 61/5000, score:-60427542.93400094, e: 0.97 , Win%: 44.179714091218514 %
episode: 62/5000, score:-56757573.277000986, e: 0.97 , Win%: 44.189489267209474 %
episode: 63/5000, score:-54431890.80400095, e: 0.97 , Win%: 43.66590505204367 %
episode: 64/5000, score:3774467.5319999866, e: 0.97 , Win%: 55.66556655665566 %
episode: 65/5000, score:-54626527.46400093, e: 0.97 , Win%: 45.1951951951952 %
episode: 66/5000, score:-54626464.08500076, e: 0.97 , Win%: 43.11649016641452 %
episode: 67/5000, score:3405290.901999991, e: 0.97 , Win%: 56.961394769613946 %
episode: 68/5000, score:3551008.439999976, e: 0.97 , Win%: 56.66592477186735 %
episode: 69/5000, score:-51591831.012000784, e: 0.97 , Win%: 44.14758269720102 %
episode: 70/5000, score:-51568494.57900073, e: 0.97 , Win%: 43.37412132257224 %
episode: 71/5000, score:3063285.362999999, e: 0.97 , Win%: 55.58109833971903 %
episode: 72/5000, score:3456379.380999987, e: 0.97 , Win%: 56.32155301144848 %
episode: 73/5000, score:3222382.245999984, e: 0.96 , Win%: 56.834712816654125 %
episode: 74/5000, score:-61555436.91000112, e: 0.96 , Win%: 43.8177874186551 %
episode: 75/5000, score:3637105.0130000245, e: 0.96 , Win%: 55.60468715454344 %
episode: 76/5000, score:3004233.4540000404, e: 0.96 , Win%: 55.601875977071394 %
episode: 77/5000, score:3843583.8029999454, e: 0.96 , Win%: 56.7651632970451 %
episode: 78/5000, score:4176825.9509999817, e: 0.96 , Win%: 60.53932584269663 %
episode: 79/5000, score:3038635.1229999587, e: 0.96 , Win%: 55.18035303146585 %
episode: 80/5000, score:-52257645.06700069, e: 0.96 , Win%: 44.13364413364413 %
episode: 81/5000, score:3650347.7119999486, e: 0.96 , Win%: 56.29808749175643 %
episode: 82/5000, score:3334120.476000023, e: 0.96 , Win%: 54.83239007400958 %
episode: 83/5000, score:4065329.4549999847, e: 0.96 , Win%: 56.780212627467996 %
episode: 84/5000, score:3929631.912000003, e: 0.96 , Win%: 56.23106880138468 %
episode: 85/5000, score:-63745527.74800139, e: 0.96 , Win%: 43.93435351519184 %
episode: 86/5000, score:-64082194.09099861, e: 0.96 , Win%: 44.848616859072095 %
episode: 87/5000, score:3096168.7450000346, e: 0.96 , Win%: 55.938212205621674 %
episode: 88/5000, score:-65199627.00399857, e: 0.96 , Win%: 43.94725464764375 %
episode: 89/5000, score:-61921595.72500125, e: 0.96 , Win%: 44.08625571770856 %
episode: 90/5000, score:-64262927.21100143, e: 0.96 , Win%: 43.45264076822348 %
episode: 91/5000, score:3172544.0910000014, e: 0.96 , Win%: 55.62419562419562 %

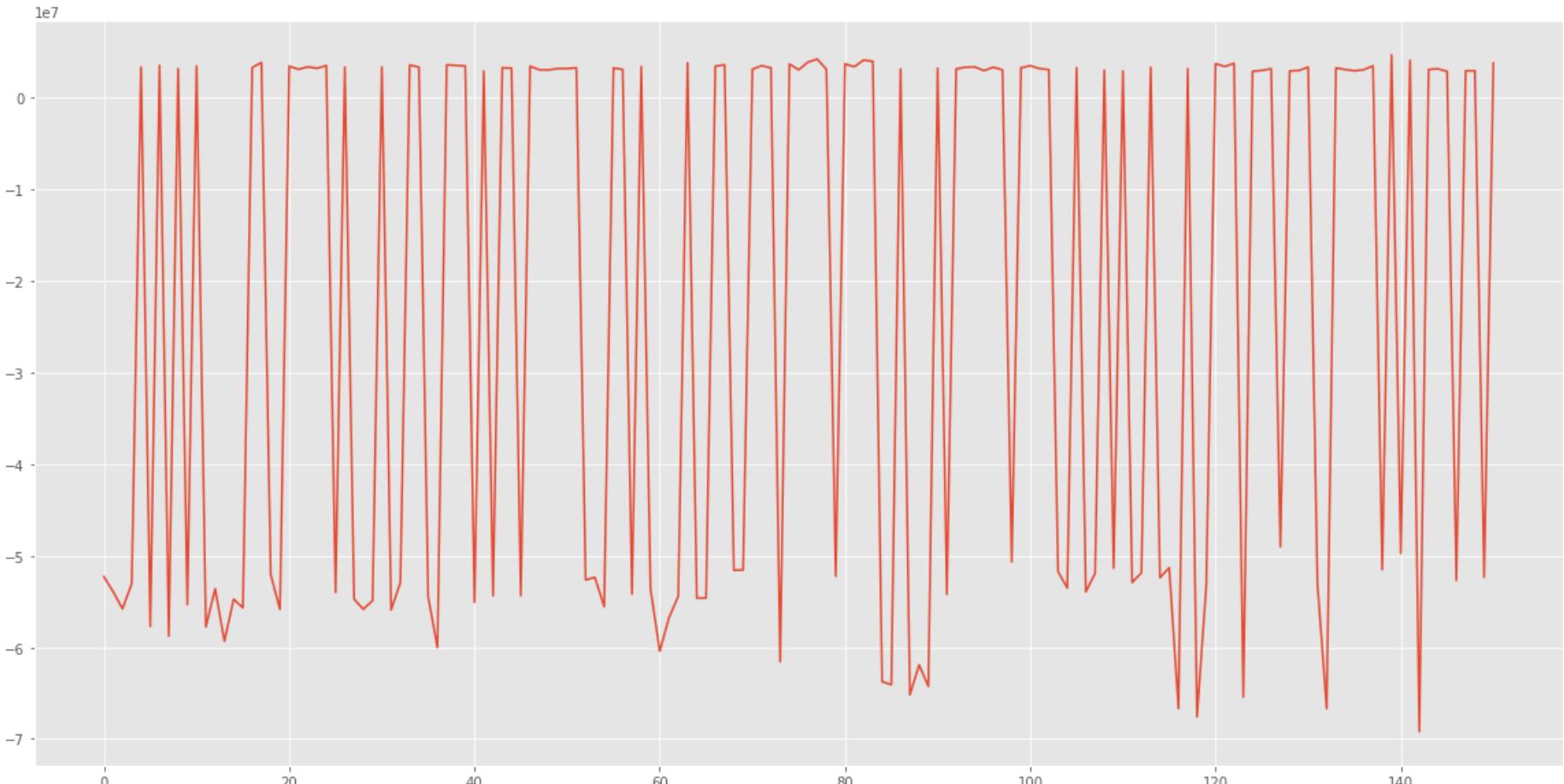
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episode: 92/5000, score:-54241595.11000002, e: 0.96 , Win%: 43.68158881/91294 %
episode: 93/5000, score:3089632.021999993, e: 0.96 , Win%: 55.807883059253456 %
episode: 94/5000, score:3293770.0920000263, e: 0.95 , Win%: 55.79896907216495 %
episode: 95/5000, score:3321399.579000023, e: 0.95 , Win%: 56.02348136804492 %
episode: 96/5000, score:2915994.5230000066, e: 0.95 , Win%: 55.30263838592861 %
episode: 97/5000, score:3281949.9159999876, e: 0.95 , Win%: 55.237608584568214 %
episode: 98/5000, score:3003918.811000033, e: 0.95 , Win%: 55.859969558599694 %
episode: 99/5000, score:-50696867.27500065, e: 0.95 , Win%: 45.1025641025641 %
episode: 100/5000, score:3225345.1339999884, e: 0.95 , Win%: 55.60312263913372 %
episode: 101/5000, score:3445348.29600001, e: 0.95 , Win%: 56.82053941908714 %
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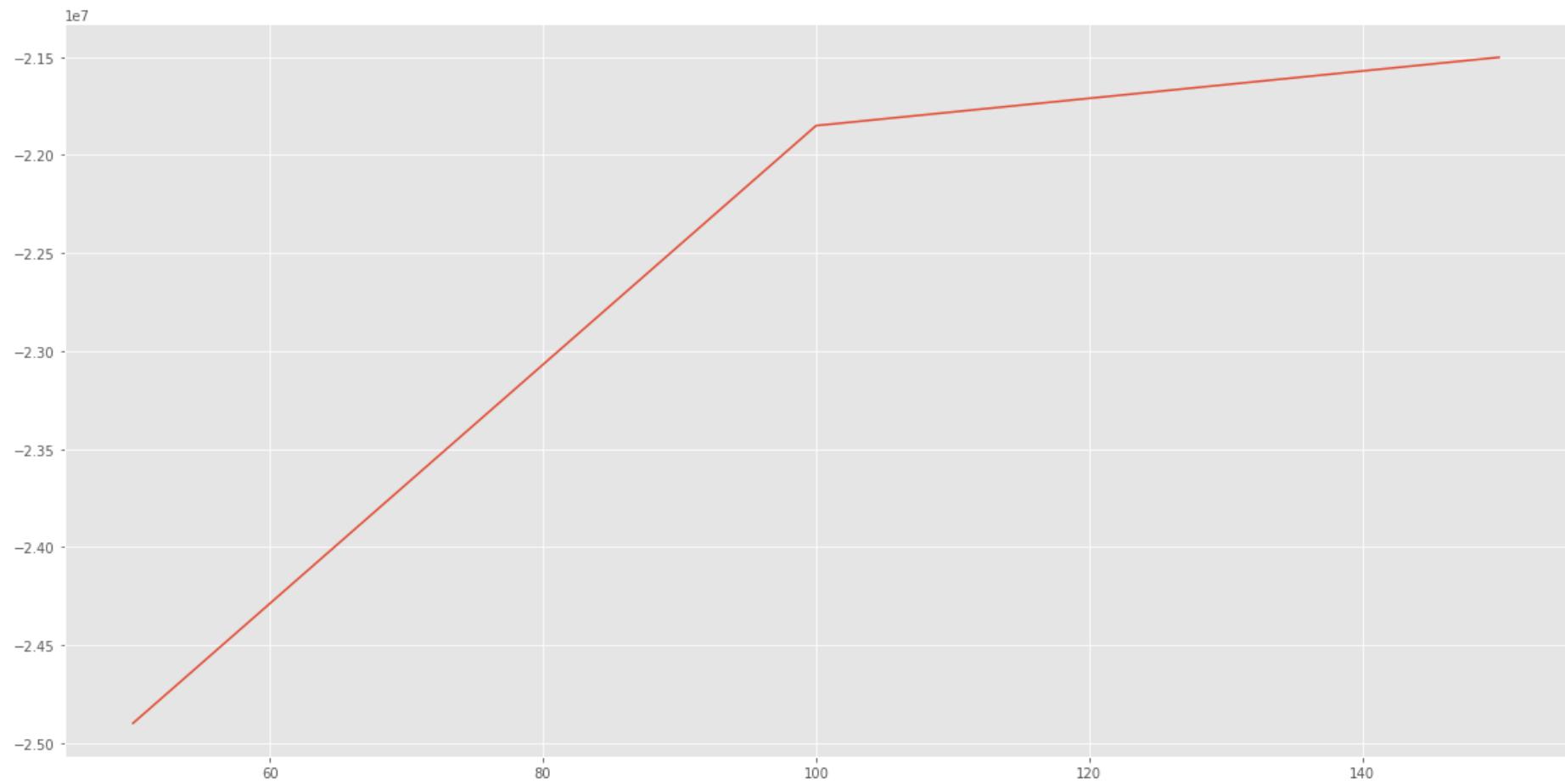




episode: 102/5000, score:3141586.3209999935, e: 0.95 , Win%: 55.71683218742042 %
episode: 103/5000, score:3024654.664000042, e: 0.95 , Win%: 55.08672016567434 %
episode: 104/5000, score:-51733286.35200097, e: 0.95 , Win%: 44.565782631305254 %
episode: 105/5000, score:-53537304.52300093, e: 0.95 , Win%: 43.44881479551967 %
episode: 106/5000, score:3222832.697999988, e: 0.95 , Win%: 55.82423296931877 %
episode: 107/5000, score:-53941051.62800083, e: 0.95 , Win%: 43.54005167958656 %
episode: 108/5000, score:-51933159.06899926, e: 0.95 , Win%: 43.648719289074755 %
episode: 109/5000, score:2955818.970999996, e: 0.95 , Win%: 55.31098029178398 %
episode: 110/5000, score:-51371748.986000605, e: 0.95 , Win%: 44.12156758197814 %
episode: 111/5000, score:2876143.7809999846, e: 0.95 , Win%: 54.46547587310051 %
episode: 112/5000, score:-52934992.39600084, e: 0.95 , Win%: 43.33948826167238 %
episode: 113/5000, score:-51862242.16500073, e: 0.95 , Win%: 44.47900466562986 %
episode: 114/5000, score:3286073.3129999703, e: 0.95 , Win%: 56.174777603349035 %
episode: 115/5000, score:-52406725.221000955, e: 0.94 , Win%: 44.363256784968684 %
episode: 116/5000, score:-51310993.66400084, e: 0.94 , Win%: 43.76834801174273 %
episode: 117/5000, score:-66679929.897001185, e: 0.94 , Win%: 44.064303380049466 %
episode: 118/5000, score:3141594.821999989, e: 0.94 , Win%: 55.09641873278237 %
episode: 119/5000, score:-67603082.96000125, e: 0.94 , Win%: 43.634090435507396 %
episode: 120/5000, score:-53311404.35400079, e: 0.94 , Win%: 45.21004098360656 %
episode: 121/5000, score:3673633.5449999776, e: 0.94 , Win%: 56.03030940854557 %
episode: 122/5000, score:3354508.0419999943, e: 0.94 , Win%: 56.803342909375814 %
episode: 123/5000, score:3711332.766000024, e: 0.94 , Win%: 55.10918829831067 %
episode: 124/5000, score:65431228.45800133, e: 0.94 , Win%: 43.08275426405559 %
episode: 125/5000, score:2841846.912999964, e: 0.94 , Win%: 54.37044745057232 %
episode: 126/5000, score:2930822.00900001, e: 0.94 , Win%: 55.14547413793103 %
episode: 127/5000, score:3123153.2429999863, e: 0.94 , Win%: 55.74074074074074 %
episode: 128/5000, score:-49040688.19700075, e: 0.94 , Win%: 46.36174636174636 %
episode: 129/5000, score:2877600.872000032, e: 0.94 , Win%: 55.41450777202073 %
episode: 130/5000, score:2922278.840999998, e: 0.94 , Win%: 55.52916336764318 %
episode: 131/5000, score:3300883.46899999, e: 0.94 , Win%: 55.834641548927266 %

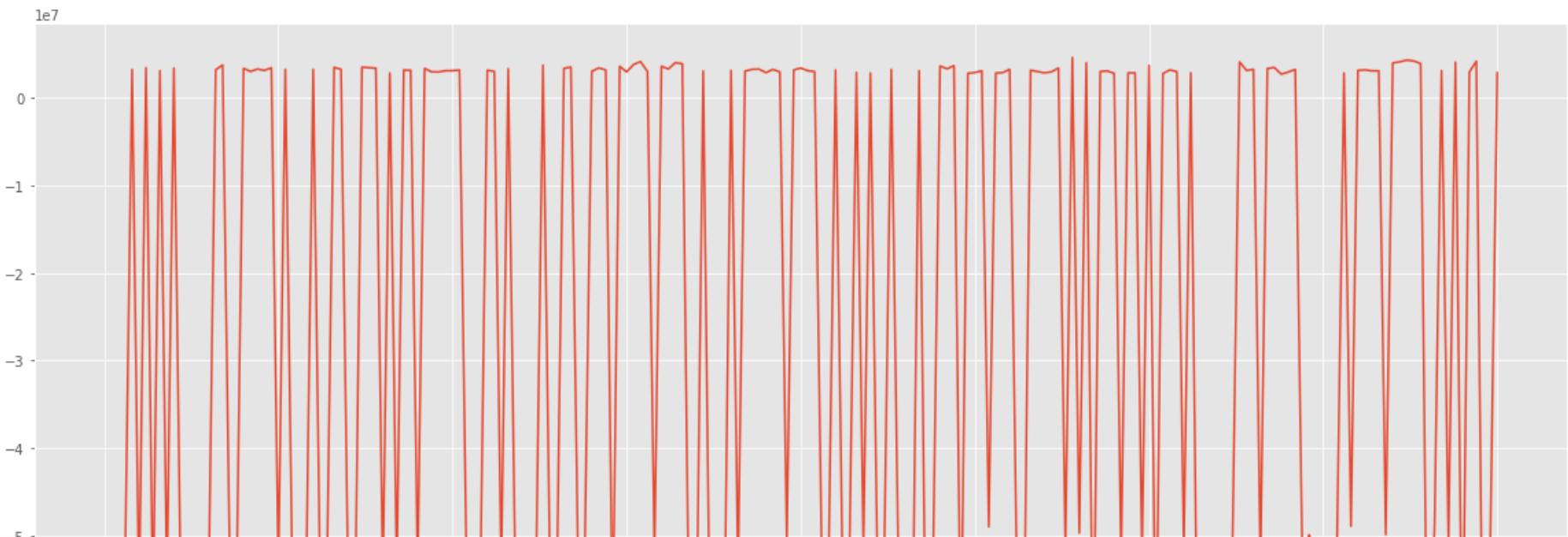
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episode: 132/5000, score:-53005967.81100093, e: 0.94 , Win%: 43.95633652822151 %
episode: 133/5000, score:-66690160.30400147, e: 0.94 , Win%: 43.91722408026756 %
episode: 134/5000, score:3200508.612999985, e: 0.94 , Win%: 56.11434621492853 %
episode: 135/5000, score:3035571.49500001, e: 0.94 , Win%: 56.144067796610166 %
episode: 136/5000, score:2891546.1909999875, e: 0.93 , Win%: 54.75578406169666 %
episode: 137/5000, score:3010560.940999981, e: 0.93 , Win%: 56.238508011557656 %
episode: 138/5000, score:3441763.222999986, e: 0.93 , Win%: 56.90866510538642 %
episode: 139/5000, score:-51523014.76400075, e: 0.93 , Win%: 43.18181818181818 %
episode: 140/5000, score:4639660.771999929, e: 0.93 , Win%: 60.14580801944107 %
episode: 141/5000, score:-49746244.90500075, e: 0.93 , Win%: 45.602094240837694 %
episode: 142/5000, score:4046441.1059999247, e: 0.93 , Win%: 55.91703944692965 %
episode: 143/5000, score:-69194167.27300109, e: 0.93 , Win%: 44.12532637075718 %
episode: 144/5000, score:3045608.6209999877, e: 0.93 , Win%: 56.37267730960482 %
episode: 145/5000, score:3112359.715999997, e: 0.93 , Win%: 55.422964730840626 %
episode: 146/5000, score:2832900.2660000077, e: 0.93 , Win%: 54.12940557601262 %
episode: 147/5000, score:-52699742.498000816, e: 0.93 , Win%: 43.177083333333336 %
episode: 148/5000, score:2895288.663999992, e: 0.93 , Win%: 54.4 %
episode: 149/5000, score:2891555.748000013, e: 0.93 , Win%: 55.694851960522804 %
episode: 150/5000, score:-52351946.94700078, e: 0.93 , Win%: 43.833464257659074 %
episode: 151/5000, score:3744012.4550000275, e: 0.93 , Win%: 55.39134054954205 %
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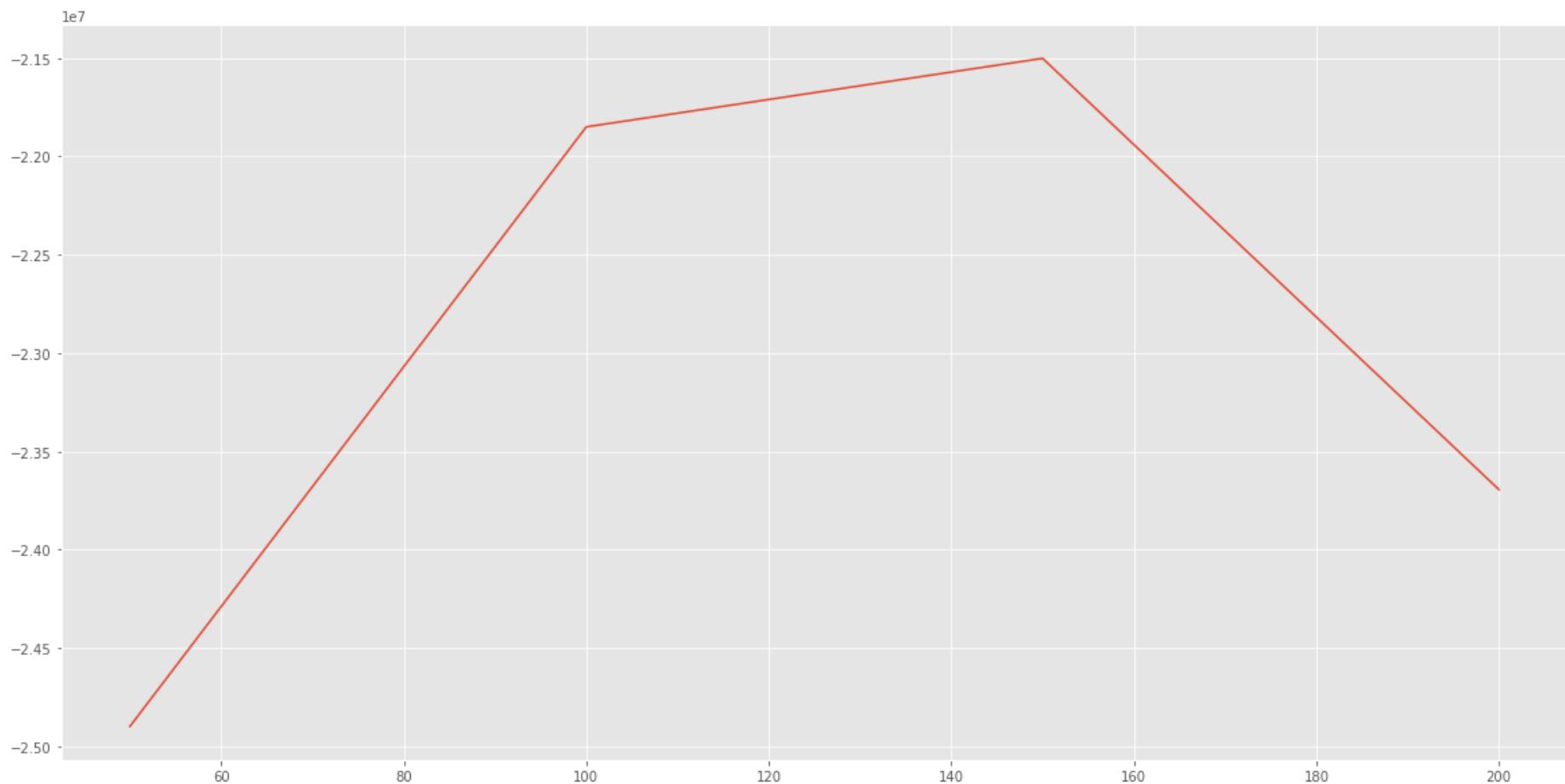
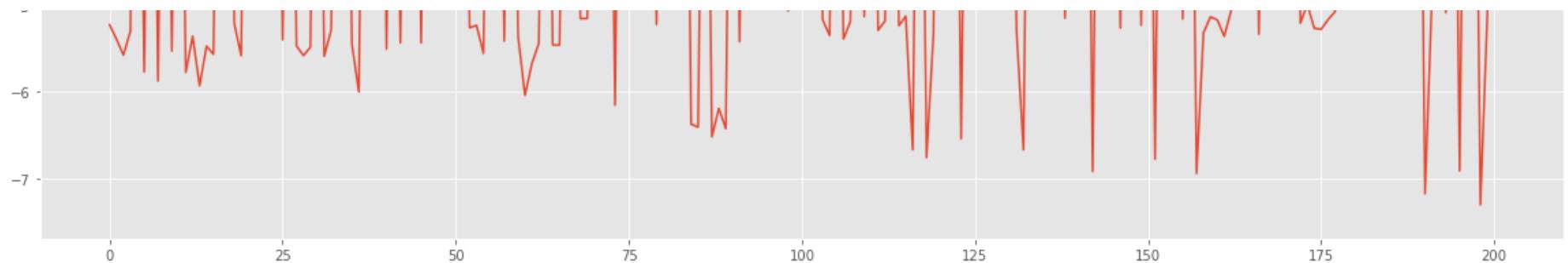




episode: 152/5000, score:-67784797.75900182, e: 0.93 , Win%: 43.49518541282524 %
episode: 153/5000, score:2813903.3800000297, e: 0.93 , Win%: 54.597851716007334 %
episode: 154/5000, score:3235568.1039999877, e: 0.93 , Win%: 56.23831151482768 %
episode: 155/5000, score:3026853.791999989, e: 0.93 , Win%: 55.796911803192884 %
episode: 156/5000, score:-51627029.92000089, e: 0.93 , Win%: 44.377139847247825 %
episode: 157/5000, score:2898605.6390000065, e: 0.92 , Win%: 55.532304472927024 %
episode: 158/5000, score:-69420927.9480016, e: 0.92 , Win%: 45.087272014120416 %
episode: 159/5000, score:-53226766.305000894, e: 0.92 , Win%: 42.58767268862912 %
episode: 160/5000, score:-51394527.97599938, e: 0.92 , Win%: 43.53004872766649 %
episode: 161/5000, score:-51735968.93400077, e: 0.92 , Win%: 45.00534188034188 %
episode: 162/5000, score:-53637373.12500077, e: 0.92 , Win%: 44.33862433862434 %
episode: 163/5000, score:-50649864.582000785, e: 0.92 , Win%: 43.959282078757035 %
episode: 164/5000, score:4147736.608000027, e: 0.92 , Win%: 55.73578268516709 %
episode: 165/5000, score:3176735.9009999936, e: 0.92 , Win%: 56.36743215031315 %
episode: 166/5000, score:3293154.0519999964, e: 0.92 , Win%: 56.77539114293291 %
episode: 167/5000, score:-53388400.62800078, e: 0.92 , Win%: 44.090677534386145 %
episode: 168/5000, score:3391974.1799999992, e: 0.92 , Win%: 58.02146035069354 %
episode: 169/5000, score:3501538.893999982, e: 0.92 , Win%: 56.65626625065003 %
episode: 170/5000, score:2740853.3290000004, e: 0.92 , Win%: 55.73505654281099 %
episode: 171/5000, score:-20910417.5690000025, e: 0.92 , Win%: 55.2087480571720 %

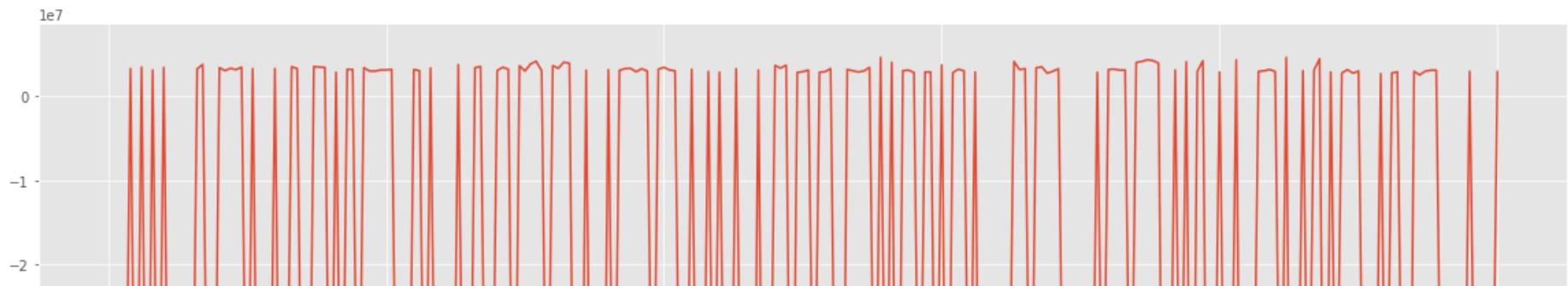
episode: 172/5000, score:3286679.441999993, e: 0.92 , Win%: 56.414946433237525 %
episode: 173/5000, score:-52112083.35300093, e: 0.92 , Win%: 44.546407970634505 %
episode: 174/5000, score:-49944418.96800077, e: 0.92 , Win%: 45.18379393614167 %
episode: 175/5000, score:-52699481.703000955, e: 0.92 , Win%: 44.506517690875235 %
episode: 176/5000, score:-52817480.13900066, e: 0.92 , Win%: 43.97051079515534 %
episode: 177/5000, score:-51711485.82300079, e: 0.92 , Win%: 44.44735463593504 %
episode: 178/5000, score:-50791545.49099929, e: 0.92 , Win%: 43.11135076840119 %
episode: 179/5000, score:2872805.3490000335, e: 0.91 , Win%: 56.02179836512261 %
episode: 180/5000, score:-48966344.848000616, e: 0.91 , Win%: 44.426835710512414 %
episode: 181/5000, score:3183022.593999992, e: 0.91 , Win%: 55.49878999731111 %
episode: 182/5000, score:3233926.141999982, e: 0.91 , Win%: 57.738719832109126 %
episode: 183/5000, score:3121085.093000028, e: 0.91 , Win%: 55.904059040590404 %
episode: 184/5000, score:3121384.5489999787, e: 0.91 , Win%: 56.94260777572071 %
episode: 185/5000, score:-49946395.102000706, e: 0.91 , Win%: 44.89525324847521 %
episode: 186/5000, score:4030275.294999953, e: 0.91 , Win%: 55.15304145679969 %
episode: 187/5000, score:4147061.1899999124, e: 0.91 , Win%: 55.30651340996169 %
episode: 188/5000, score:4347575.463999879, e: 0.91 , Win%: 56.61966314140227 %
episode: 189/5000, score:4253878.063999936, e: 0.91 , Win%: 56.098027953283555 %
episode: 190/5000, score:3956364.1099999193, e: 0.91 , Win%: 56.34467833956325 %
episode: 191/5000, score:-71752366.54100089, e: 0.91 , Win%: 42.385596399099775 %
episode: 192/5000, score:-49037980.957999475, e: 0.91 , Win%: 44.951664876476904 %
episode: 193/5000, score:3132753.9270000206, e: 0.91 , Win%: 55.98188116173728 %
episode: 194/5000, score:-50894146.762000695, e: 0.91 , Win%: 42.48190833556687 %
episode: 195/5000, score:4114956.660999922, e: 0.91 , Win%: 55.175706646294884 %
episode: 196/5000, score:-69131318.33400123, e: 0.91 , Win%: 44.647619047619045 %
episode: 197/5000, score:2976569.8329999857, e: 0.91 , Win%: 55.97114613946032 %
episode: 198/5000, score:4226677.913999907, e: 0.91 , Win%: 55.86126719627979 %
episode: 199/5000, score:-73027889.6530013, e: 0.91 , Win%: 43.72862029646522 %
episode: 200/5000, score:-5124629.32900066, e: 0.91 , Win%: 43.184849293144836 %
episode: 201/5000, score:2894076.2660000375, e: 0.9 , Win%: 55.68669527896996 %

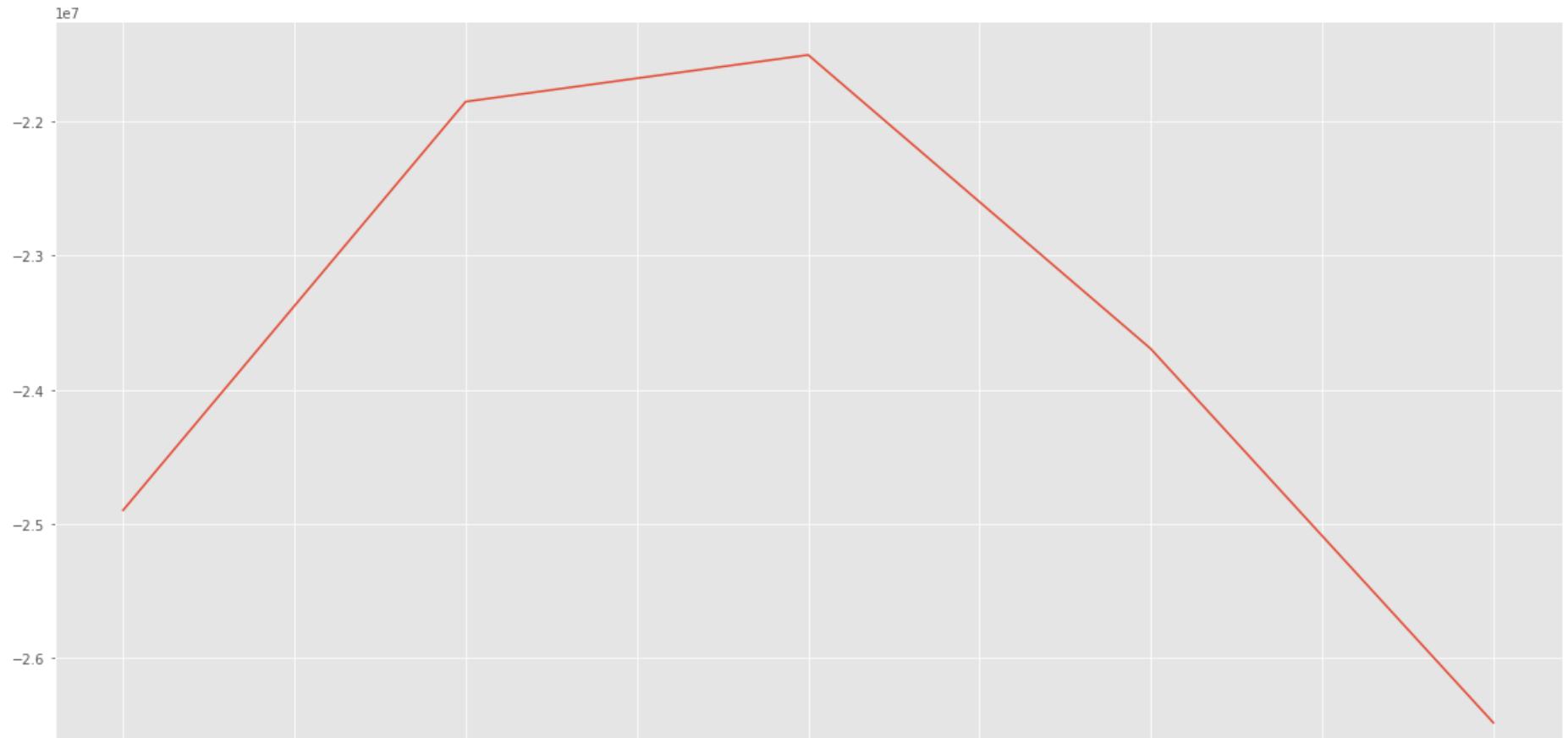
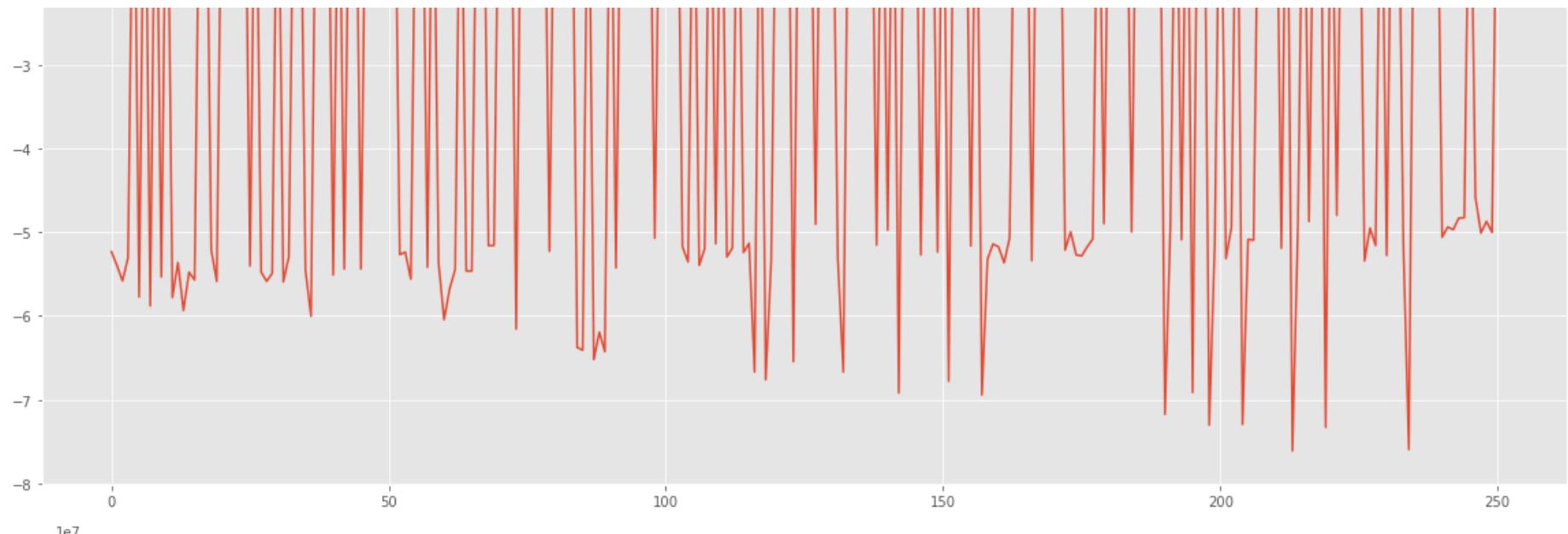




episode: 202/5000, score:-53135933.123000816, e: 0.9 , Win%: 42.98410988419068 %
episode: 203/5000, score:-49430847.62300073, e: 0.9 , Win%: 43.61065796628603 %
episode: 204/5000, score:4343932.103999984, e: 0.9 , Win%: 56.360189573459714 %
episode: 205/5000, score:-72945492.956000106, e: 0.9 , Win%: 44.73535505744962 %
episode: 206/5000, score:-50844520.43100067, e: 0.9 , Win%: 44.56697149004842 %
episode: 207/5000, score:-50931402.71300082, e: 0.9 , Win%: 43.799616753353405 %
episode: 208/5000, score:2958523.605000028, e: 0.9 , Win%: 55.03392130257802 %
episode: 209/5000, score:3029327.0959999966, e: 0.9 , Win%: 55.40862205765671 %
episode: 210/5000, score:3193816.810000004, e: 0.9 , Win%: 58.29926410466067 %

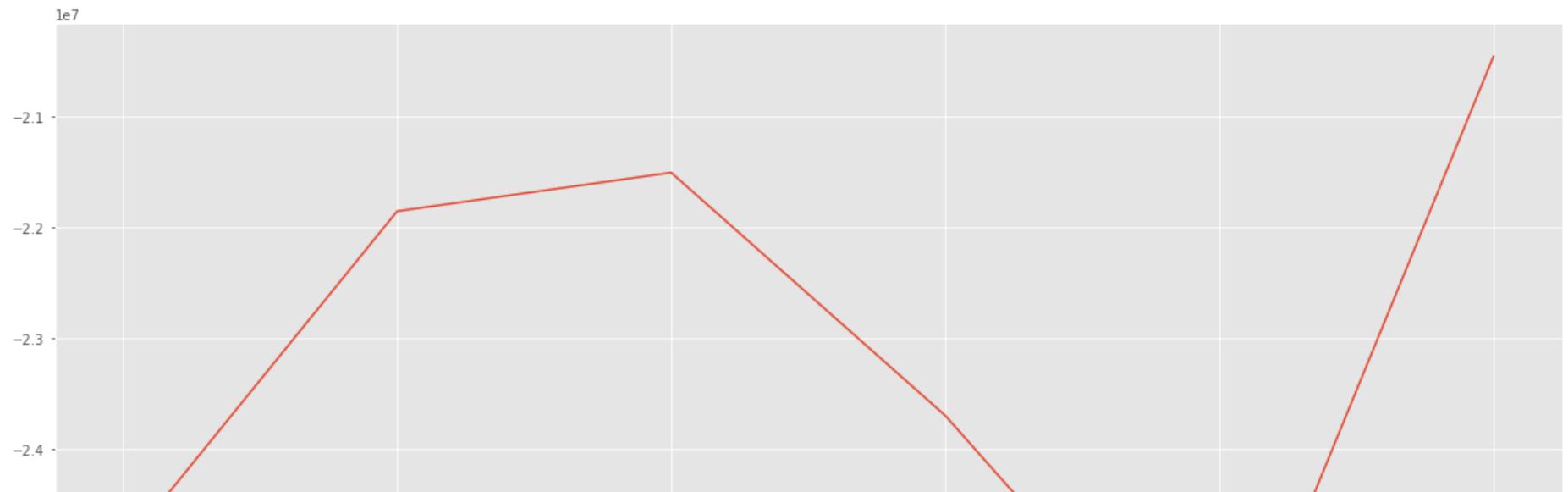
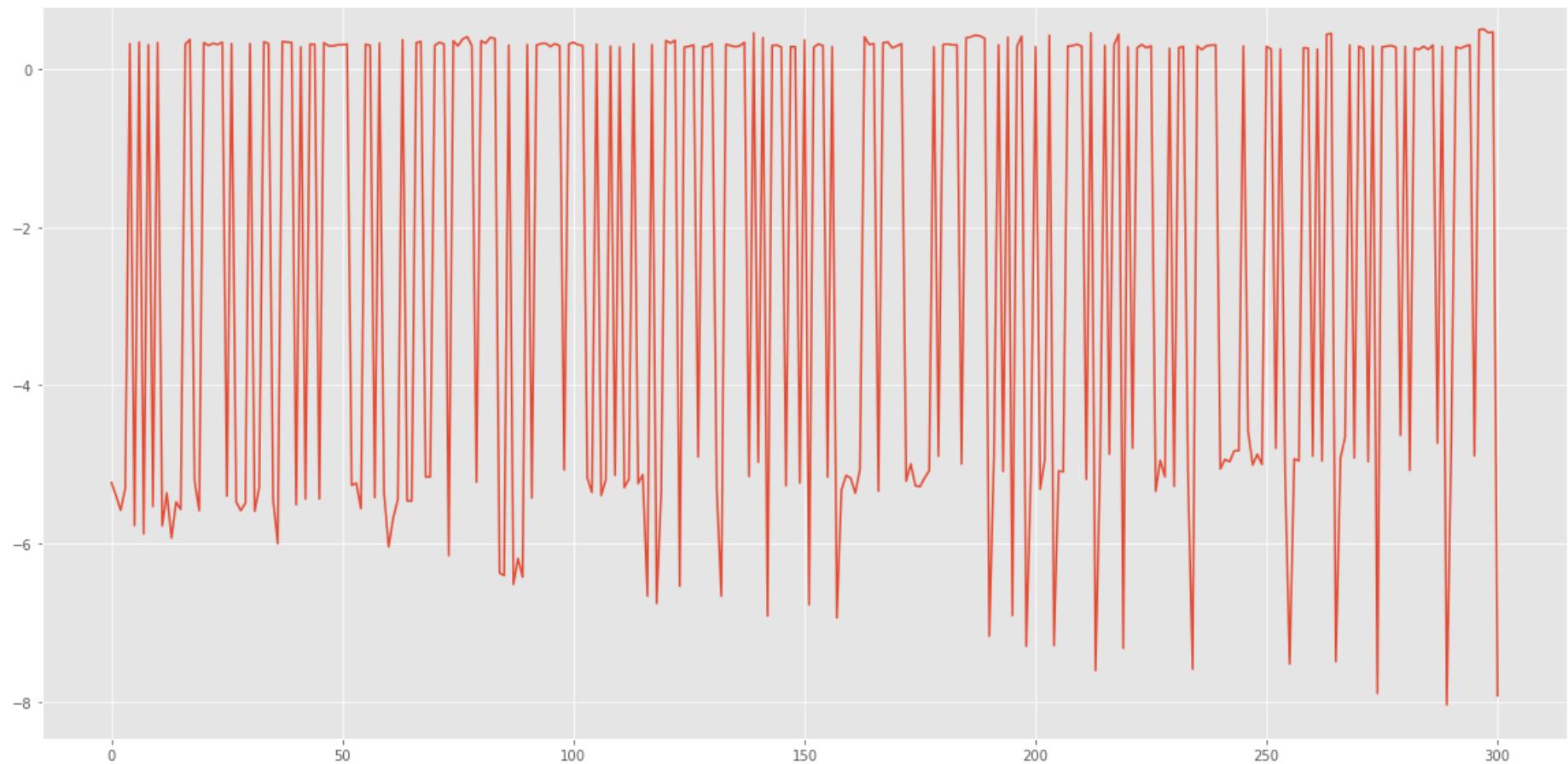
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episode: 211/5000, score:2940728.0379999964, e: 0.9 , Win%: 55.27624309392265 %
episode: 212/5000, score:-51899865.80600068, e: 0.9 , Win%: 43.136736313144674 %
episode: 213/5000, score:4631448.057999919, e: 0.9 , Win%: 56.223255813953486 %
episode: 214/5000, score:-76110604.21300055, e: 0.9 , Win%: 42.96904140246177 %
episode: 215/5000, score:-49051174.31800059, e: 0.9 , Win%: 44.120077113742774 %
episode: 216/5000, score:3042836.297000039, e: 0.9 , Win%: 56.66210670314638 %
episode: 217/5000, score:-48705216.0790006, e: 0.9 , Win%: 44.794188861985475 %
episode: 218/5000, score:3128380.1870000344, e: 0.9 , Win%: 57.21434528773978 %
episode: 219/5000, score:4480176.448999971, e: 0.9 , Win%: 56.96830851470027 %
episode: 220/5000, score:-73295608.03100081, e: 0.9 , Win%: 43.78378378378378 %
episode: 221/5000, score:2892190.136000024, e: 0.9 , Win%: 55.437448896156994 %
episode: 222/5000, score:-47960409.582000695, e: 0.9 , Win%: 44.82952944491406 %
episode: 223/5000, score:2766926.4950000076, e: 0.89 , Win%: 54.13290113452188 %
episode: 224/5000, score:3166482.9919999954, e: 0.89 , Win%: 55.56152606125739 %
episode: 225/5000, score:2760121.358000005, e: 0.89 , Win%: 56.279853891542565 %
episode: 226/5000, score:3000035.629999979, e: 0.89 , Win%: 56.29791894852136 %
episode: 227/5000, score:-53410473.49700103, e: 0.89 , Win%: 43.51677852348993 %
episode: 228/5000, score:-49491722.53800079, e: 0.89 , Win%: 44.002274019329164 %
episode: 229/5000, score:-51576693.17100078, e: 0.89 , Win%: 44.508511806699616 %
episode: 230/5000, score:2707721.4619999966, e: 0.89 , Win%: 54.81239804241436 %
episode: 231/5000, score:-52778899.90000078, e: 0.89 , Win%: 44.14243000815439 %
episode: 232/5000, score:2775793.310999993, e: 0.89 , Win%: 55.53709856035437 %
episode: 233/5000, score:2907887.0909999935, e: 0.89 , Win%: 55.81658647042174 %
episode: 234/5000, score:-51218503.5130007, e: 0.89 , Win%: 43.39570720968629 %
episode: 235/5000, score:-75953241.4740016, e: 0.89 , Win%: 43.70384047267356 %
episode: 236/5000, score:2976995.5259999875, e: 0.89 , Win%: 55.01077586206897 %
episode: 237/5000, score:2535669.555999994, e: 0.89 , Win%: 54.29533969679955 %
episode: 238/5000, score:2988334.3609999907, e: 0.89 , Win%: 57.90921595598349 %
episode: 239/5000, score:3100247.3949999963, e: 0.89 , Win%: 55.89374654122856 %
episode: 240/5000, score:3110212.60400027, e: 0.89 , Win%: 57.0874861572536 %
episode: 241/5000, score:-50585690.473000586, e: 0.89 , Win%: 44.411204786510744 %
episode: 242/5000, score:-49364151.75700068, e: 0.89 , Win%: 43.04144935492726 %
episode: 243/5000, score:-49674976.38900073, e: 0.89 , Win%: 43.732820230896095 %
episode: 244/5000, score:-48290736.17500063, e: 0.89 , Win%: 43.69935736239173 %
episode: 245/5000, score:-48251000.88700079, e: 0.89 , Win%: 44.55172413793103 %
episode: 246/5000, score:2982329.521000034, e: 0.88 , Win%: 55.44906900328587 %
episode: 247/5000, score:-45785553.89900064, e: 0.88 , Win%: 44.41970498190927 %
episode: 248/5000, score:-50076458.40500082, e: 0.88 , Win%: 44.23398328690808 %
episode: 249/5000, score:-48695979.79400079, e: 0.88 , Win%: 43.47708163818823 %
episode: 250/5000, score:-50003429.343000844, e: 0.88 , Win%: 45.14378730330982 %
episode: 251/5000, score:2928832.247000046, e: 0.88 , Win%: 55.688949522510235 %
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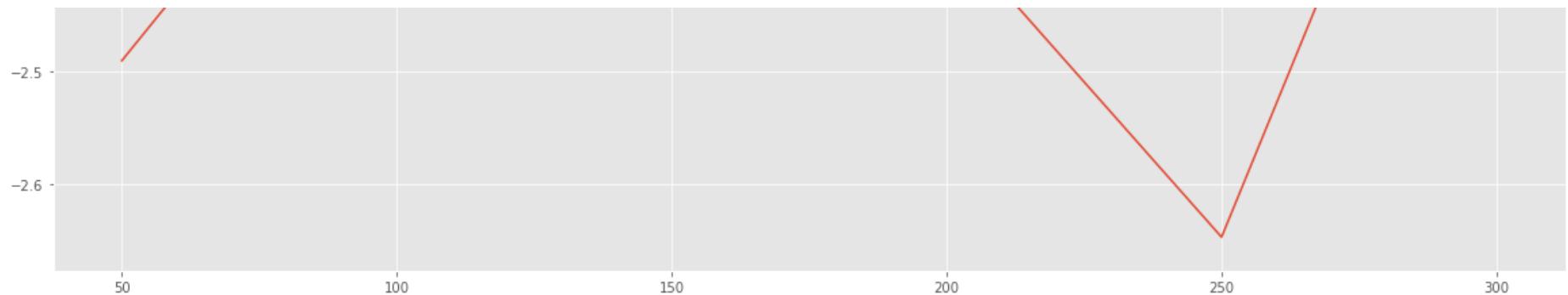




50 75 100 125 150 175 200 225 250
episode: 252/5000, score:2605729.267000004, e: 0.88 , Win%: 54.83328663491174 %
episode: 253/5000, score:-47964517.046000615, e: 0.88 , Win%: 43.02162313956754 %
episode: 254/5000, score:2611995.1470000027, e: 0.88 , Win%: 55.43355855855856 %
episode: 255/5000, score:-50769354.0450008, e: 0.88 , Win%: 44.843537414965986 %
episode: 256/5000, score:-75275056.53900158, e: 0.88 , Win%: 43.95424836601307 %
episode: 257/5000, score:-49296747.41200074, e: 0.88 , Win%: 44.6978021978022 %
episode: 258/5000, score:-49562926.881000794, e: 0.88 , Win%: 44.57998336567785 %
episode: 259/5000, score:2763797.070999991, e: 0.88 , Win%: 55.53387231669919 %
episode: 260/5000, score:2713953.941000042, e: 0.88 , Win%: 55.15391132448461 %
episode: 261/5000, score:-48943494.87400075, e: 0.88 , Win%: 44.40677966101695 %
episode: 262/5000, score:2592266.6710000373, e: 0.88 , Win%: 56.11656087709175 %
episode: 263/5000, score:-49567143.363000736, e: 0.88 , Win%: 42.93000850099178 %
episode: 264/5000, score:4455759.705000029, e: 0.88 , Win%: 55.70349046419575 %
episode: 265/5000, score:4565623.982999911, e: 0.88 , Win%: 56.44957604185459 %
episode: 266/5000, score:-74986854.90500073, e: 0.88 , Win%: 43.845879414912595 %
episode: 267/5000, score:-49223426.94300072, e: 0.88 , Win%: 43.84787472035794 %
episode: 268/5000, score:-46520019.49200066, e: 0.87 , Win%: 44.86215538847118 %
episode: 269/5000, score:3102412.264999998, e: 0.87 , Win%: 57.02710254260967 %
episode: 270/5000, score:-49174239.401000604, e: 0.87 , Win%: 44.205890448665016 %
episode: 271/5000, score:2941365.823000045, e: 0.87 , Win%: 55.32937517670342 %
episode: 272/5000, score:2651929.567000033, e: 0.87 , Win%: 55.06998000571265 %
episode: 273/5000, score:-49655401.59200054, e: 0.87 , Win%: 43.80580357142857 %
episode: 274/5000, score:2974876.5880000354, e: 0.87 , Win%: 55.83982202447164 %
episode: 275/5000, score:-79011182.74100204, e: 0.87 , Win%: 44.55776331985229 %
episode: 276/5000, score:2862573.3020000295, e: 0.87 , Win%: 55.67660550458716 %
episode: 277/5000, score:2956141.725999997, e: 0.87 , Win%: 56.347438752783965 %
episode: 278/5000, score:3041298.15900003, e: 0.87 , Win%: 55.73501231864221 %
episode: 279/5000, score:2813785.2730000312, e: 0.87 , Win%: 55.69583931133429 %
episode: 280/5000, score:-46327902.41800035, e: 0.87 , Win%: 44.97841726618705 %
episode: 281/5000, score:2918829.869000031, e: 0.87 , Win%: 56.16783216783217 %
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episode: 283/5000, score:2690078.012000005, e: 0.87 , Win%: 54.98175694639349 %
episode: 284/5000, score:2538770.615999999, e: 0.87 , Win%: 53.9695945945946 %
episode: 285/5000, score:2945376.896999996, e: 0.87 , Win%: 57.41626794258373 %
episode: 286/5000, score:2551696.691000006, e: 0.87 , Win%: 54.62567606034728 %
episode: 287/5000, score:3110551.9659999968, e: 0.87 , Win%: 57.0569710850272 %
episode: 288/5000, score:-47302967.775000505, e: 0.87 , Win%: 44.550561797752806 %
episode: 289/5000, score:2906562.732000036, e: 0.87 , Win%: 55.86283185840708 %
episode: 290/5000, score:-80447358.1320015, e: 0.87 , Win%: 44.00909567955221 %
episode: 291/5000, score:-46435102.53600036, e: 0.86 , Win%: 44.25137561540689 %
episode: 292/5000, score:2862473.0339999944, e: 0.86 , Win%: 56.84180138568129 %
episode: 293/5000, score:2693203.973000005, e: 0.86 , Win%: 55.14997170345218 %
episode: 294/5000, score:2957423.3549999935, e: 0.86 , Win%: 56.55944055944056 %
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episode: 299/5000, score:4670512.584999891, e: 0.86 , Win%: 55.56312830124382 %
episode: 300/5000, score:4753160.652000032, e: 0.86 , Win%: 55.826417704011064 %
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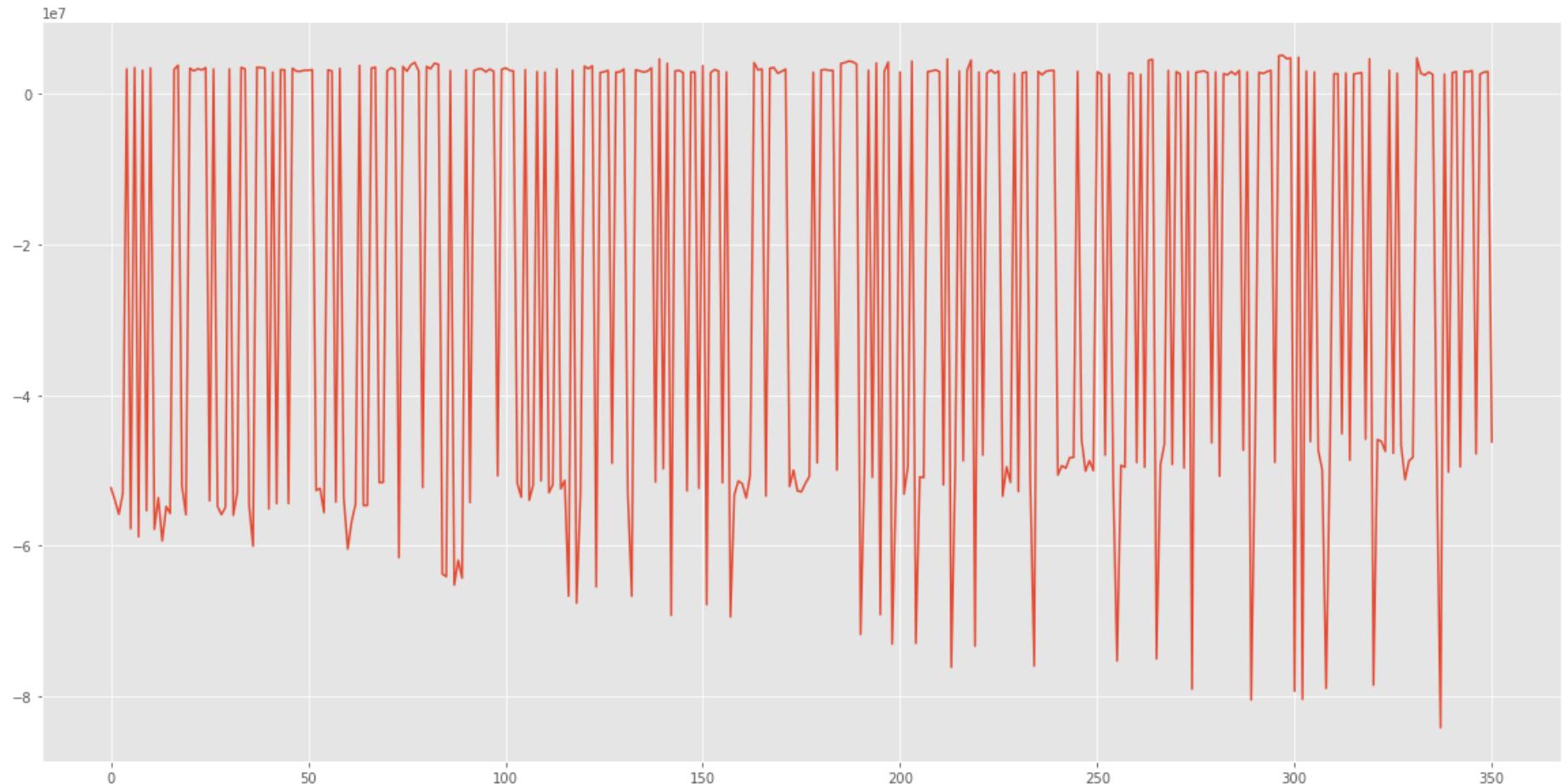
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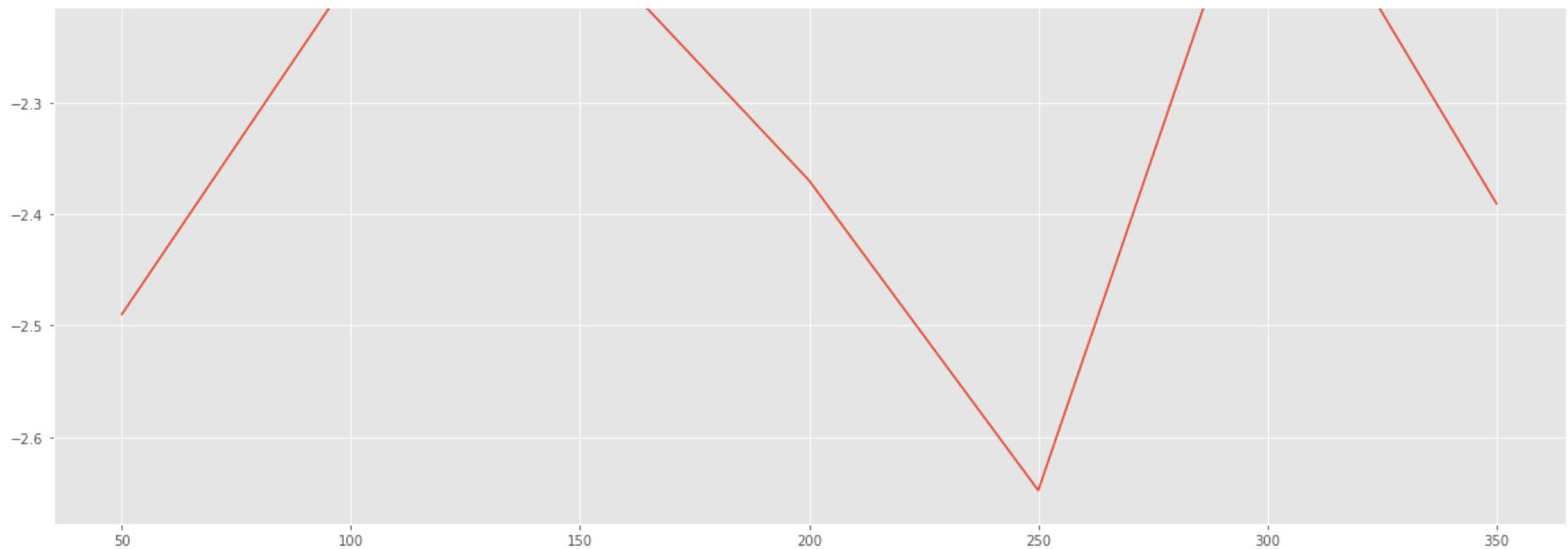




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episode: 302/5000, score:4869776.570999905, e: 0.86 , Win%: 55.83461472749018 %
episode: 303/5000, score:-80356682.85500178, e: 0.86 , Win%: 44.508377051954646 %
episode: 304/5000, score:3027767.982999967, e: 0.86 , Win%: 55.68627450980392 %
episode: 305/5000, score:-46161486.51900056, e: 0.86 , Win%: 45.16776598795526 %
episode: 306/5000, score:2906009.468000073, e: 0.86 , Win%: 56.03324734881055 %
episode: 307/5000, score:-47315373.963000625, e: 0.86 , Win%: 45.109321058688145 %
episode: 308/5000, score:-49890934.65000049, e: 0.86 , Win%: 43.9569770733088 %
episode: 309/5000, score:-78908005.08500196, e: 0.86 , Win%: 44.28177747158112 %
episode: 310/5000, score:-46122673.2850003, e: 0.86 , Win%: 44.899689177733826 %
episode: 311/5000, score:2672255.52600002, e: 0.86 , Win%: 55.67890691716482 %
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episode: 315/5000, score:-48636283.667000726, e: 0.85 , Win%: 45.210180154418076 %
episode: 316/5000, score:2643097.8350000246, e: 0.85 , Win%: 56.127733026467205 %
episode: 317/5000, score:2720372.259000024, e: 0.85 , Win%: 55.02196193265007 %
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episode: 322/5000, score:-45888712.74600067, e: 0.85 , Win%: 43.95229982964225 %
episode: 323/5000, score:-46135157.07400032, e: 0.85 , Win%: 43.4001178550383 %
episode: 324/5000, score:-47456188.40700049, e: 0.85 , Win%: 44.368701837581504 %
episode: 325/5000, score:3137102.045999991, e: 0.85 , Win%: 56.558328496807896 %
episode: 326/5000, score:-47715996.373000465, e: 0.85 , Win%: 43.62801377726751 %
episode: 327/5000, score:2743508.1440000427, e: 0.85 , Win%: 56.5116950620849 %
episode: 328/5000, score:-46622818.911000736, e: 0.85 , Win%: 44.275028768699656 %
episode: 329/5000, score:-51197720.95800067, e: 0.85 , Win%: 43.41880341880342 %
episode: 330/5000, score:-48728996.98500061, e: 0.85 , Win%: 44.71709006928406 %
episode: 331/5000, score:-48225714.705000676, e: 0.85 , Win%: 42.70380040615028 %
episode: 332/5000, score:4769763.417999896, e: 0.85 , Win%: 56.57276995305164 %
episode: 333/5000, score:2718923.444000034, e: 0.85 , Win%: 55.918481295365716 %
episode: 334/5000, score:2497470.710000032, e: 0.85 , Win%: 55.81260844418739 %
episode: 335/5000, score:2886840.21400001, e: 0.85 , Win%: 57.164223751121746 %
episode: 336/5000, score:2592264.196999999, e: 0.85 , Win%: 55.648899188876015 %
episode: 337/5000, score:-47406261.85300061, e: 0.85 , Win%: 43.39181286549707 %
episode: 338/5000, score:-84128398.59799987, e: 0.84 , Win%: 44.464170432537124 %
episode: 339/5000, score:2613181.0410000365, e: 0.84 , Win%: 55.95900439238653 %
episode: 340/5000, score:-50198541.92300085, e: 0.84 , Win%: 44.26275725965605 %
episode: 341/5000, score:2818295.175999998, e: 0.84 , Win%: 55.708944492378485 %
episode: 342/5000, score:2946849.0609999993, e: 0.84 , Win%: 56.30643751820565 %
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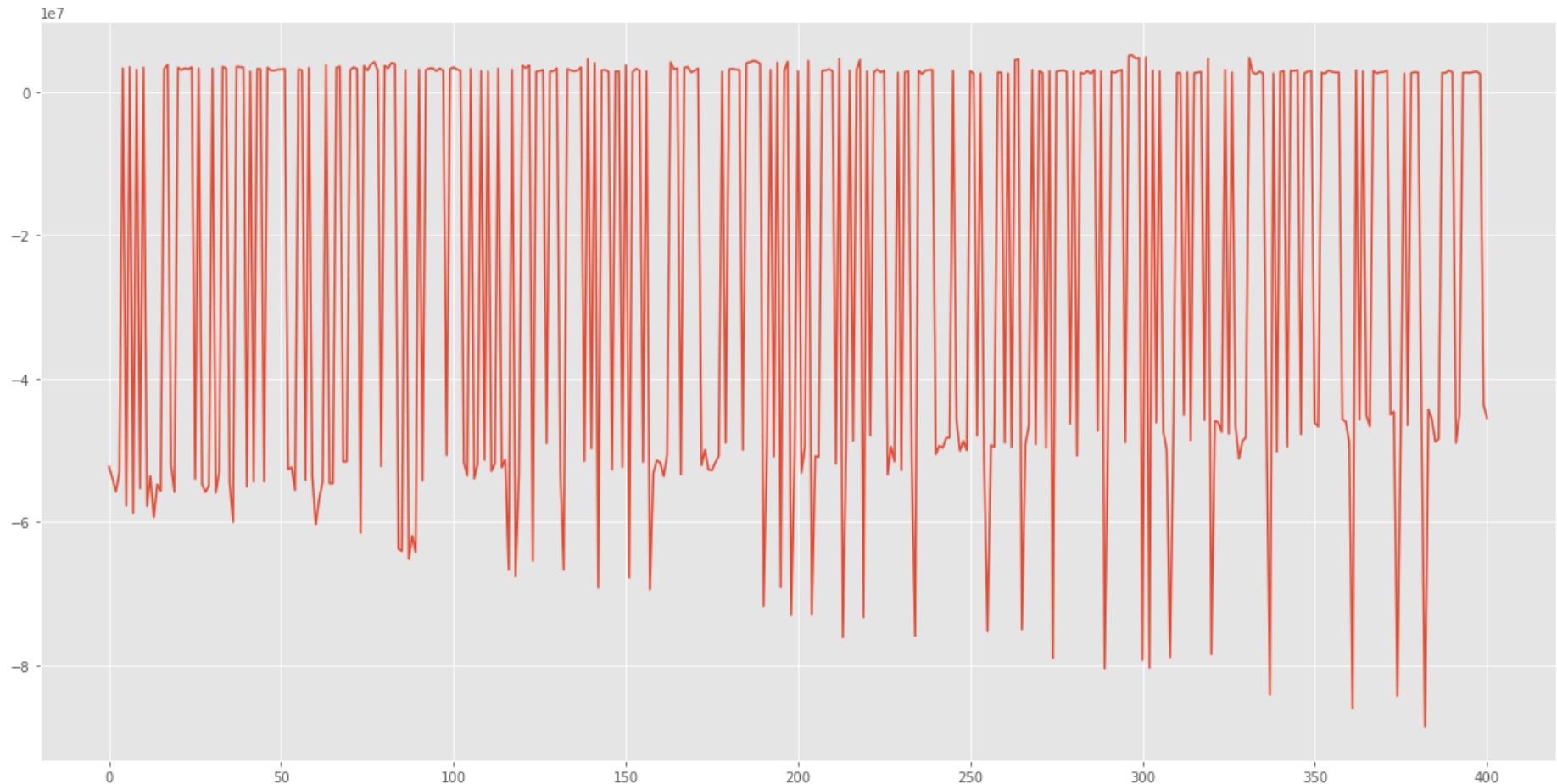
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episode: 344/5000, score:2980677.836000002, e: 0.84 , Win%: 56.67161961367013 %
episode: 345/5000, score:2927234.029000006, e: 0.84 , Win%: 58.51001177856301 %
episode: 346/5000, score:3082357.528999961, e: 0.84 , Win%: 57.40897544453853 %
episode: 347/5000, score:-47784101.82600078, e: 0.84 , Win%: 44.03508771929825 %
episode: 348/5000, score:2626997.0940000336, e: 0.84 , Win%: 55.79133510167993 %
episode: 349/5000, score:2880927.3360000025, e: 0.84 , Win%: 56.7239336492891 %
episode: 350/5000, score:2954673.389000017, e: 0.84 , Win%: 57.55246822347029 %
episode: 351/5000, score:-46189045.55100058, e: 0.84 , Win%: 42.458920187793424 %
```

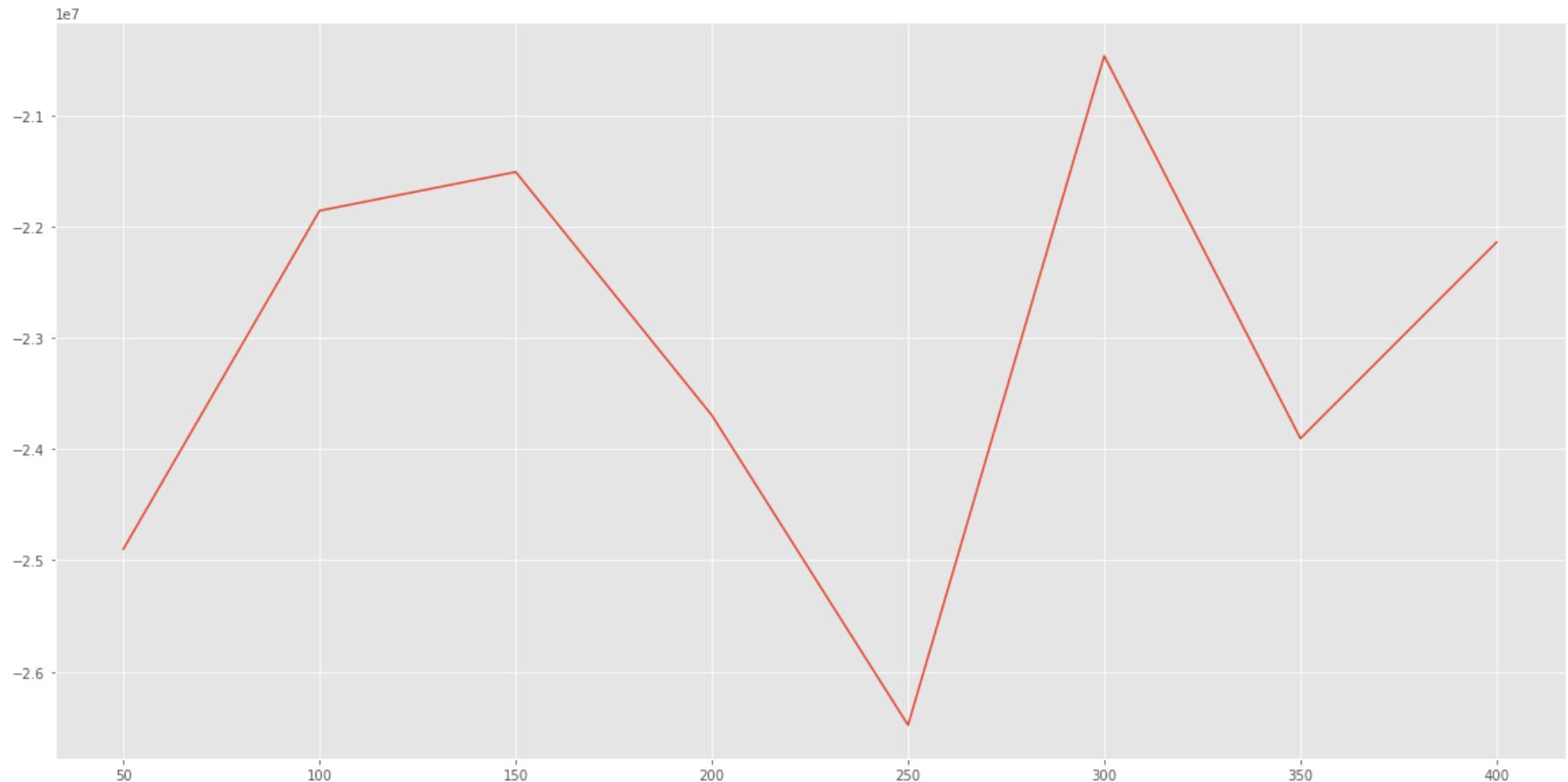




episode: 352/5000, score:-46731468.41100064, e: 0.84 , Win%: 44.091303091592025 %
episode: 353/5000, score:2677711.5959999687, e: 0.84 , Win%: 55.790108564535586 %
episode: 354/5000, score:2570146.947000034, e: 0.84 , Win%: 54.07624633431085 %
episode: 355/5000, score:3004821.2679999922, e: 0.84 , Win%: 56.05885747259088 %
episode: 356/5000, score:2813528.856000008, e: 0.84 , Win%: 56.28776978417266 %
episode: 357/5000, score:2730891.2680000057, e: 0.84 , Win%: 55.863288155568654 %
episode: 358/5000, score:2743621.532000028, e: 0.84 , Win%: 55.88747099767981 %
episode: 359/5000, score:-45692702.53000068, e: 0.84 , Win%: 43.57394366197183 %
episode: 360/5000, score:-46021217.41800062, e: 0.84 , Win%: 44.589498114302295 %
episode: 361/5000, score:-48856207.70000062, e: 0.84 , Win%: 44.733044733044736 %
episode: 362/5000, score:-86055562.25999929, e: 0.83 , Win%: 43.387622149837135 %
episode: 363/5000, score:3053754.318000014, e: 0.83 , Win%: 57.814782354659656 %
episode: 364/5000, score:-45749211.60900027, e: 0.83 , Win%: 44.89855924728021 %
episode: 365/5000, score:2918540.175999957, e: 0.83 , Win%: 56.51162790697674 %
episode: 366/5000, score:-45177479.20300039, e: 0.83 , Win%: 44.60202604920405 %
episode: 367/5000, score:-46676805.91300078, e: 0.83 , Win%: 43.69434070669348 %
episode: 368/5000, score:2965104.8820000202, e: 0.83 , Win%: 56.493135011441645 %
episode: 369/5000, score:2609963.30800002, e: 0.83 , Win%: 56.32603406326034 %
episode: 370/5000, score:2763771.7959999708, e: 0.83 , Win%: 55.720957384705194 %
episode: 371/5000, score:2792338.875999991, e: 0.83 , Win%: 56.743078297112234 %
episode: 372/5000, score:3028813.440000008, e: 0.83 , Win%: 58.14159292035398 %
episode: 373/5000, score:-45057109.10500068, e: 0.83 , Win%: 44.21330208028128 %
episode: 374/5000, score:-44622966.68400032, e: 0.83 , Win%: 43.710407239819006 %
episode: 375/5000, score:-84265881.95700198, e: 0.83 , Win%: 44.24677656275502 %
episode: 376/5000, score:-45968706.95600031, e: 0.83 , Win%: 44.68147282291058 %
episode: 377/5000, score:2594093.810999966, e: 0.83 , Win%: 55.854765506807865 %
episode: 378/5000, score:-46551854.110000625, e: 0.83 , Win%: 43.932683790965456 %
episode: 379/5000, score:2643982.3030000348, e: 0.83 , Win%: 55.0 %
episode: 380/5000, score:2785617.5210000286, e: 0.83 , Win%: 56.12577870068229 %
episode: 381/5000, score:2723466.029, e: 0.83 , Win%: 56.00475624256837 %

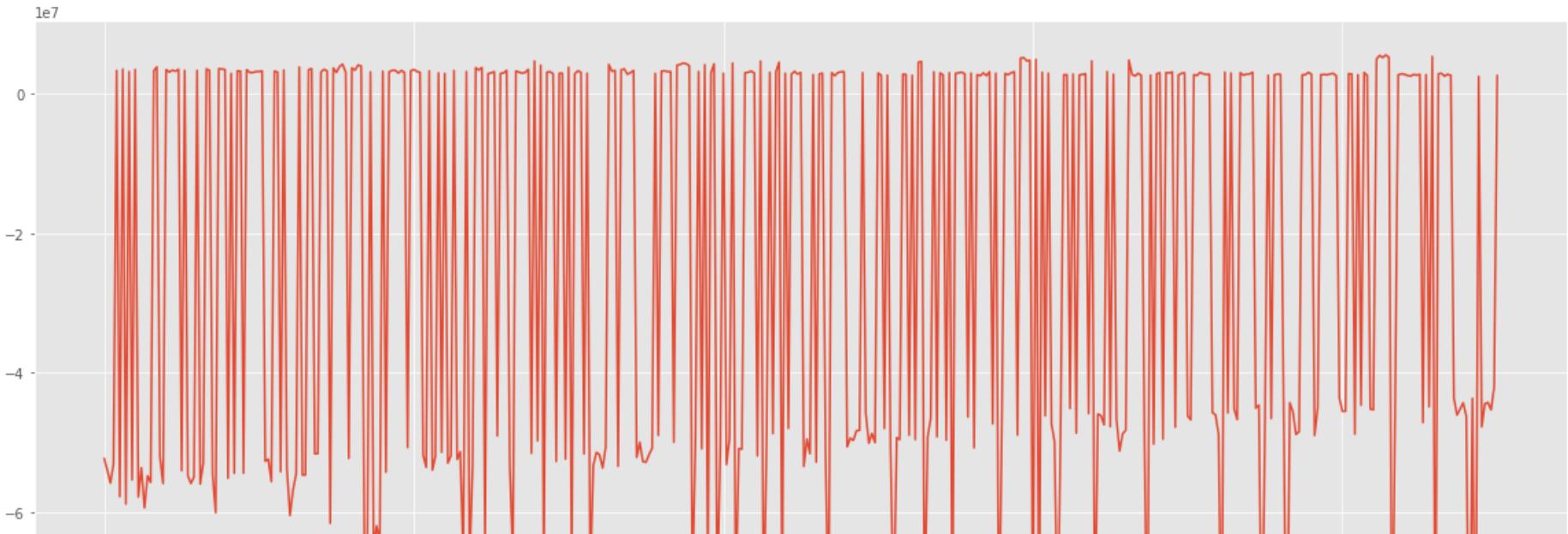
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episode: 382/5000, score:-45220361.58000051, e: 0.83 , Win%: 44.751709782931904 %
episode: 383/5000, score:-88605394.3299988, e: 0.83 , Win%: 42.84581218274111 %
episode: 384/5000, score:-44278037.35300081, e: 0.83 , Win%: 43.96629551609991 %
episode: 385/5000, score:-45624881.91100072, e: 0.83 , Win%: 43.84774269696076 %
episode: 386/5000, score:-48821669.796000846, e: 0.82 , Win%: 43.16546762589928 %
episode: 387/5000, score:-48419611.872000545, e: 0.82 , Win%: 43.74282433983927 %
episode: 388/5000, score:2667567.348000026, e: 0.82 , Win%: 55.252100840336134 %
episode: 389/5000, score:2674308.5680000265, e: 0.82 , Win%: 54.931261207411836 %
episode: 390/5000, score:3016440.9229999986, e: 0.82 , Win%: 57.14704159343878 %
episode: 391/5000, score:2733162.7309999974, e: 0.82 , Win%: 55.992680695333945 %
episode: 392/5000, score:-48983405.79800063, e: 0.82 , Win%: 41.87757504414361 %
episode: 393/5000, score:-45011175.74600061, e: 0.82 , Win%: 43.48612786489747 %
episode: 394/5000, score:2680164.511999997, e: 0.82 , Win%: 54.7389909594634 %
episode: 395/5000, score:2716465.0859999997, e: 0.82 , Win%: 57.14705019078368 %
episode: 396/5000, score:2669773.012000035, e: 0.82 , Win%: 56.48574057037718 %
episode: 397/5000, score:2791540.4549999973, e: 0.82 , Win%: 55.59891924347043 %
episode: 398/5000, score:2874871.3430000087, e: 0.82 , Win%: 56.645473811686344 %
episode: 399/5000, score:2541493.695, e: 0.82 , Win%: 55.16721904188008 %
episode: 400/5000, score:-43609920.807000026, e: 0.82 , Win%: 43.32107843137255 %
episode: 401/5000, score:-45519198.73000031, e: 0.82 , Win%: 45.346416889681834 %
```

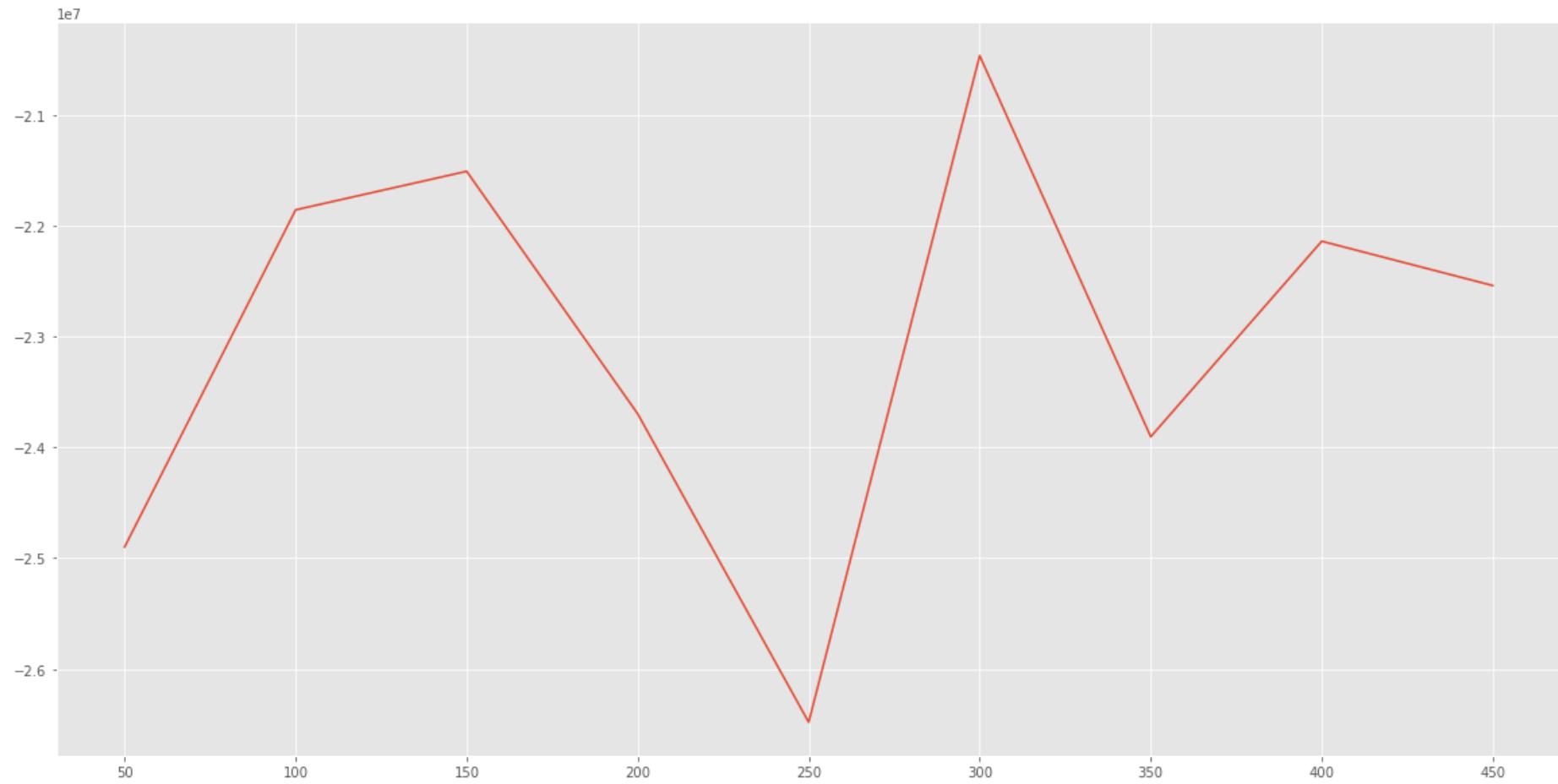
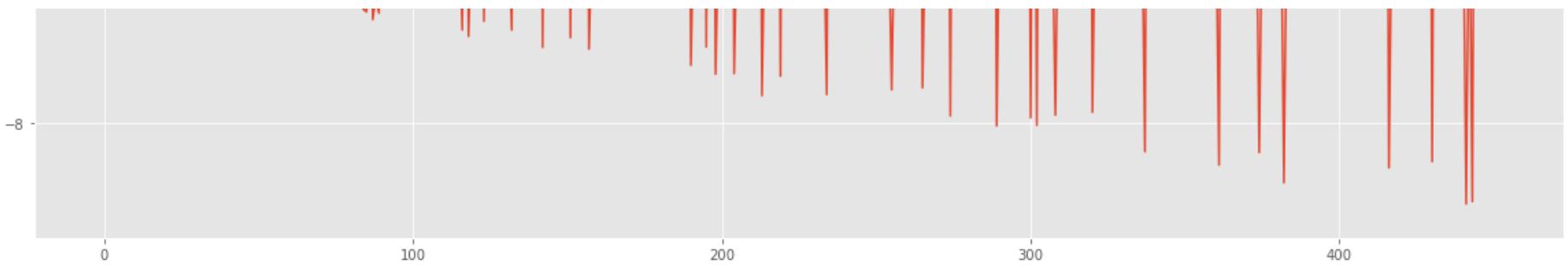




episode: 402/5000, score:-45519787.87600057, e: 0.82 , Win%: 44.72271914132379 %
episode: 403/5000, score:2835545.48300026, e: 0.82 , Win%: 57.26495726495727 %
episode: 404/5000, score:2780146.222999995, e: 0.82 , Win%: 56.375838926174495 %
episode: 405/5000, score:-48775764.24000065, e: 0.82 , Win%: 44.358669833729216 %
episode: 406/5000, score:2677982.468000036, e: 0.82 , Win%: 55.18364928909953 %
episode: 407/5000, score:-44643930.81000053, e: 0.82 , Win%: 43.92240072749318 %
episode: 408/5000, score:2988920.70700001, e: 0.82 , Win%: 56.98340874811463 %
episode: 409/5000, score:2590344.1970000104, e: 0.82 , Win%: 55.33115533115533 %
episode: 410/5000, score:-45191261.152000226, e: 0.82 , Win%: 44.37046004842615 %
episode: 411/5000, score:-45287085.31600062, e: 0.81 , Win%: 43.784895680282105 %
episode: 412/5000, score:4922962.390999892, e: 0.81 , Win%: 55.569741461857646 %
episode: 413/5000, score:5448895.831999887, e: 0.81 , Win%: 56.66350110794555 %
episode: 414/5000, score:5137539.825999876, e: 0.81 , Win%: 55.78337768038817 %
episode: 415/5000, score:5511812.268999892, e: 0.81 , Win%: 56.26934984520124 %
episode: 416/5000, score:5184422.99700002, e: 0.81 , Win%: 55.500921942224956 %
episode: 417/5000, score:-86449542.46099943, e: 0.81 , Win%: 44.25431711145997 %
episode: 418/5000, score:-45447311.2830005, e: 0.81 , Win%: 43.071836489329726 %
episode: 419/5000, score:2653358.745000027, e: 0.81 , Win%: 56.35040921491361 %
episode: 420/5000, score:2819292.58600003, e: 0.81 , Win%: 56.78092399403875 %

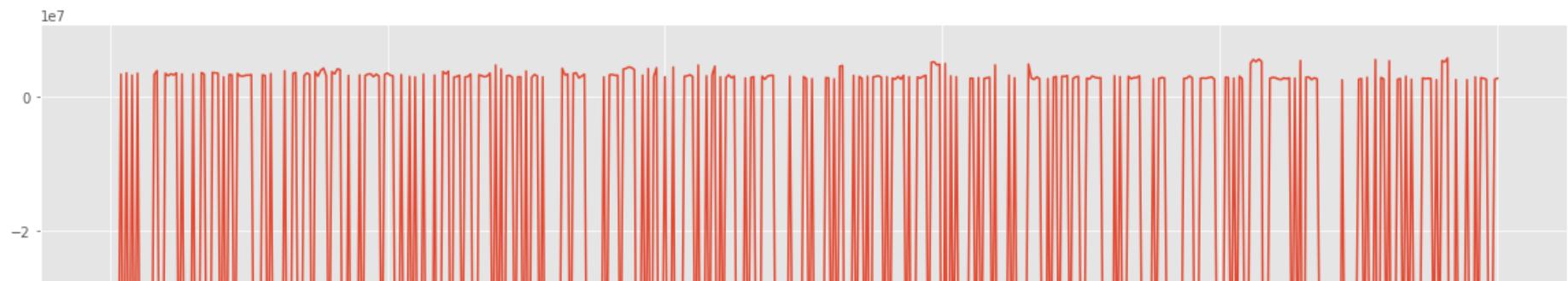
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episode: 421/5000, score:2/488/6.509999995/, e: 0.81 , Win%: 56.62615981/62918 %
episode: 422/5000, score:2563507.5690000313, e: 0.81 , Win%: 55.29197080291971 %
episode: 423/5000, score:2473562.22300001, e: 0.81 , Win%: 54.107565011820334 %
episode: 424/5000, score:2712976.599999963, e: 0.81 , Win%: 56.04701515620167 %
episode: 425/5000, score:2619099.4839999974, e: 0.81 , Win%: 55.661786674634 %
episode: 426/5000, score:2733501.7649999717, e: 0.81 , Win%: 55.50847457627118 %
episode: 427/5000, score:-47119601.37800078, e: 0.81 , Win%: 44.42802246526752 %
episode: 428/5000, score:2690571.452999997, e: 0.81 , Win%: 56.60847880299252 %
episode: 429/5000, score:-44868586.72000072, e: 0.81 , Win%: 44.79665071770335 %
episode: 430/5000, score:5303612.372999887, e: 0.81 , Win%: 55.949249574501 %
episode: 431/5000, score:-85568103.66999932, e: 0.81 , Win%: 43.33175877814517 %
episode: 432/5000, score:2827217.7350000325, e: 0.81 , Win%: 57.679591223324316 %
episode: 433/5000, score:2877251.3320000023, e: 0.81 , Win%: 56.60725261216964 %
episode: 434/5000, score:2468677.0610000063, e: 0.81 , Win%: 55.12934879571811 %
episode: 435/5000, score:2742549.0030000275, e: 0.8 , Win%: 55.83028083028083 %
episode: 436/5000, score:2580877.3550000326, e: 0.8 , Win%: 54.81012658227848 %
episode: 437/5000, score:-43628758.833000146, e: 0.8 , Win%: 45.16512942576614 %
episode: 438/5000, score:-46043976.49200068, e: 0.8 , Win%: 44.1712204007286 %
episode: 439/5000, score:-45196271.165000424, e: 0.8 , Win%: 44.89182692307692 %
episode: 440/5000, score:-44296218.68599994, e: 0.8 , Win%: 43.86019177234766 %
episode: 441/5000, score:-46190374.04200062, e: 0.8 , Win%: 44.993968636911944 %
episode: 442/5000, score:-91640920.40099859, e: 0.8 , Win%: 44.030188679245285 %
episode: 443/5000, score:-43658721.94400064, e: 0.8 , Win%: 43.11704063068527 %
episode: 444/5000, score:-91297407.55899902, e: 0.8 , Win%: 43.70719829554101 %
episode: 445/5000, score:2442992.01200004, e: 0.8 , Win%: 55.53533515316955 %
episode: 446/5000, score:-47755552.41600067, e: 0.8 , Win%: 43.84339509862522 %
episode: 447/5000, score:-44432741.52800066, e: 0.8 , Win%: 44.56688093051729 %
episode: 448/5000, score:-44246307.094000615, e: 0.8 , Win%: 43.63582793164408 %
episode: 449/5000, score:-45311293.64900027, e: 0.8 , Win%: 44.77388439652591 %
episode: 450/5000, score:-42063569.7410002, e: 0.8 , Win%: 44.7018844609206 %
episode: 451/5000, score:2534472.271000095, e: 0.8 , Win%: 55.215103683070254 %
```

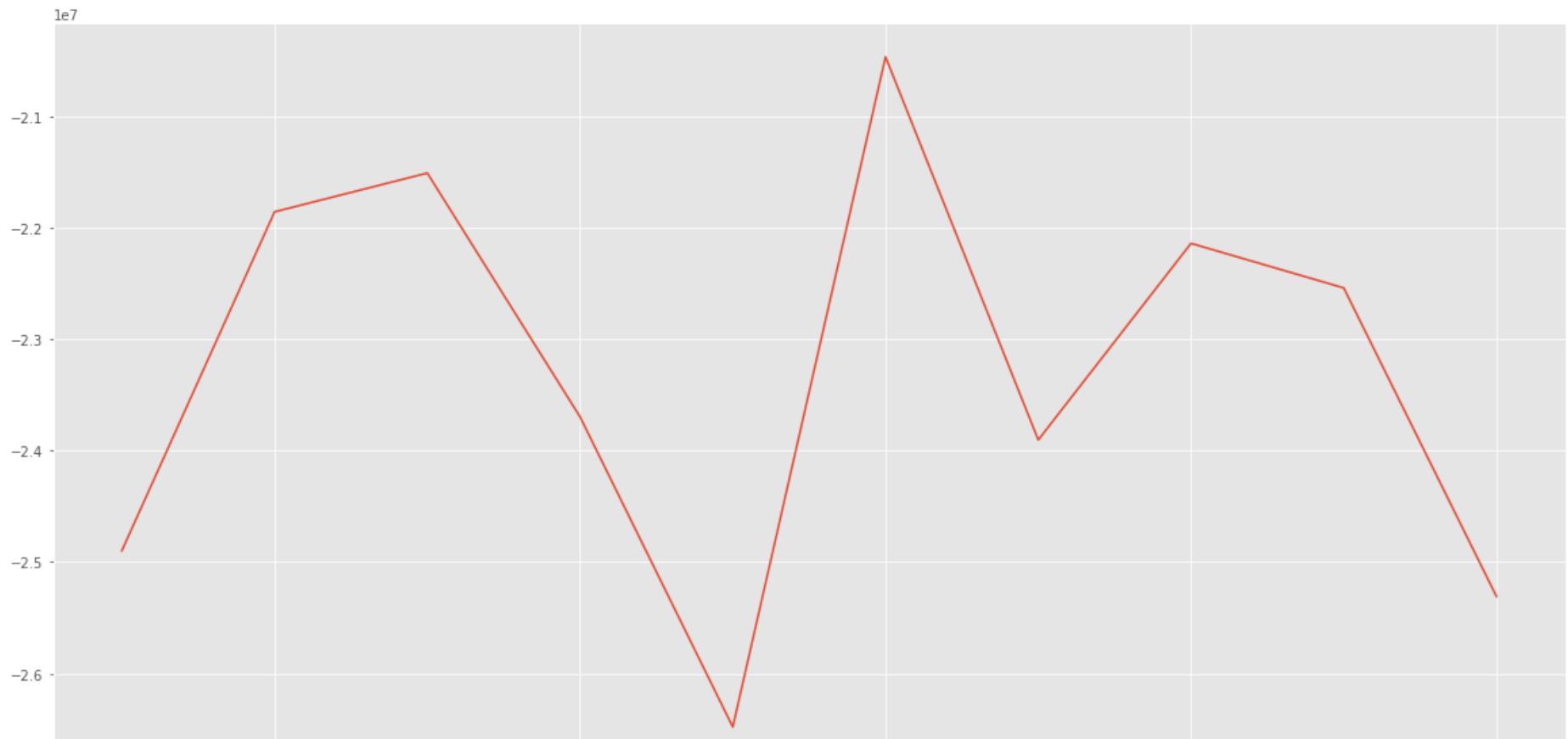
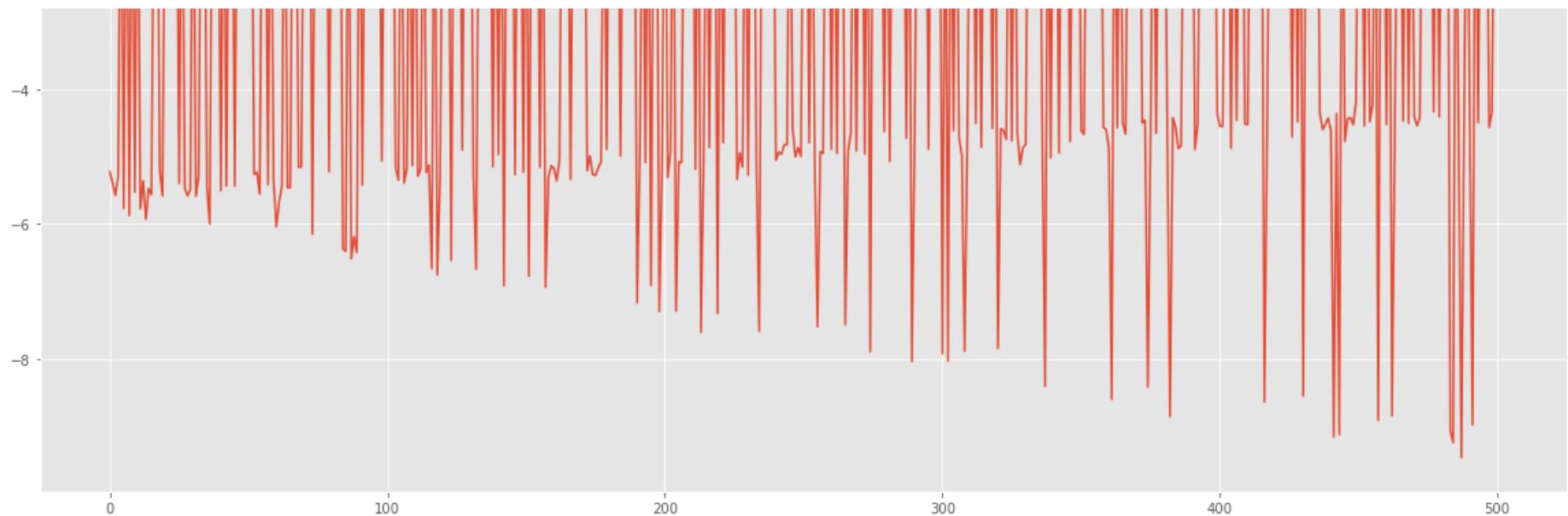




episode: 452/5000, score:2619727.572000007, e: 0.8 , Win%: 55.77395577395578 %
episode: 453/5000, score:-45478310.32800069, e: 0.8 , Win%: 44.51182534869618 %
episode: 454/5000, score:2822333.274000007, e: 0.8 , Win%: 56.1890243902439 %
episode: 455/5000, score:-44892336.19000063, e: 0.8 , Win%: 44.38356164383562 %
episode: 456/5000, score:-42299905.63000058, e: 0.8 , Win%: 47.19101123595506 %
episode: 457/5000, score:5459773.0209999, e: 0.8 , Win%: 56.71022290545734 %
episode: 458/5000, score:-89176461.05000214, e: 0.8 , Win%: 45.402558314522196 %
episode: 459/5000, score:2788910.038999995, e: 0.8 , Win%: 57.208872458410355 %
episode: 460/5000. score:2567190.856000023. e: 0.79 . Win%: 55.154639175257735 %

```
episode: 461/5000, score:-45267873.62300023, e: 0.79 , Win%: 42.76788503592627 %
episode: 462/5000, score:5267605.616999918, e: 0.79 , Win%: 55.61847988077496 %
episode: 463/5000, score:-88511287.69299929, e: 0.79 , Win%: 44.76407914764079 %
episode: 464/5000, score:-46422910.745000325, e: 0.79 , Win%: 43.90470297029703 %
episode: 465/5000, score:2528739.789000073, e: 0.79 , Win%: 56.61245780914391 %
episode: 466/5000, score:2614172.832999993, e: 0.79 , Win%: 55.80057526366251 %
episode: 467/5000, score:-44733967.65100066, e: 0.79 , Win%: 43.955042527339 %
episode: 468/5000, score:2983851.640000018, e: 0.79 , Win%: 56.91056910569106 %
episode: 469/5000, score:-45089039.694000676, e: 0.79 , Win%: 44.83079788885439 %
episode: 470/5000, score:2534560.49600002, e: 0.79 , Win%: 56.03367633302152 %
episode: 471/5000, score:-44097004.64400058, e: 0.79 , Win%: 43.62958359229335 %
episode: 472/5000, score:-45429909.093000256, e: 0.79 , Win%: 43.79939209726444 %
episode: 473/5000, score:-44278359.05600065, e: 0.79 , Win%: 43.433716237193416 %
episode: 474/5000, score:2718157.014000014, e: 0.79 , Win%: 57.11200246837396 %
episode: 475/5000, score:2611884.2529999968, e: 0.79 , Win%: 56.381066506890356 %
episode: 476/5000, score:2672960.131000024, e: 0.79 , Win%: 55.00606796116505 %
episode: 477/5000, score:2621616.702999993, e: 0.79 , Win%: 55.60425798371947 %
episode: 478/5000, score:-43404244.336000495, e: 0.79 , Win%: 44.3331246086412 %
episode: 479/5000, score:2467468.46000004, e: 0.79 , Win%: 56.411876184459885 %
episode: 480/5000, score:-44133183.148000576, e: 0.79 , Win%: 45.59585492227979 %
episode: 481/5000, score:5290323.763999999, e: 0.79 , Win%: 55.757307351638616 %
episode: 482/5000, score:5101274.010999873, e: 0.79 , Win%: 54.80885922330097 %
episode: 483/5000, score:5663731.0739999, e: 0.79 , Win%: 56.28912071535022 %
episode: 484/5000, score:-90774382.04099874, e: 0.79 , Win%: 44.49561729312138 %
episode: 485/5000, score:-92487041.79500234, e: 0.79 , Win%: 44.200859131980444 %
episode: 486/5000, score:2487558.3229999994, e: 0.78 , Win%: 55.68676196395277 %
episode: 487/5000, score:-46209728.816000655, e: 0.78 , Win%: 42.67834793491865 %
episode: 488/5000, score:-94713446.13600229, e: 0.78 , Win%: 42.99051570835803 %
episode: 489/5000, score:-42519471.091000035, e: 0.78 , Win%: 40.667915106117356 %
episode: 490/5000, score:2468510.3670000345, e: 0.78 , Win%: 54.733822123047496 %
episode: 491/5000, score:-43916385.55200011, e: 0.78 , Win%: 45.22313010685104 %
episode: 492/5000, score:-89845671.84999916, e: 0.78 , Win%: 44.295806403126406 %
episode: 493/5000, score:2879575.8899999913, e: 0.78 , Win%: 56.139240506329116 %
episode: 494/5000, score:-44970355.313000455, e: 0.78 , Win%: 43.574547723019336 %
episode: 495/5000, score:2757155.259999998, e: 0.78 , Win%: 55.84415584415584 %
episode: 496/5000, score:2659005.483999996, e: 0.78 , Win%: 55.994897959183675 %
episode: 497/5000, score:2506133.4500000104, e: 0.78 , Win%: 55.340432397547595 %
episode: 498/5000, score:-45704969.41900068, e: 0.78 , Win%: 44.02241594022416 %
episode: 499/5000, score:-43392670.992000476, e: 0.78 , Win%: 43.62651370299554 %
episode: 500/5000, score:2534968.447000038, e: 0.78 , Win%: 56.232427366447986 %
episode: 501/5000, score:2665670.818999998, e: 0.78 , Win%: 55.68146049732452 %
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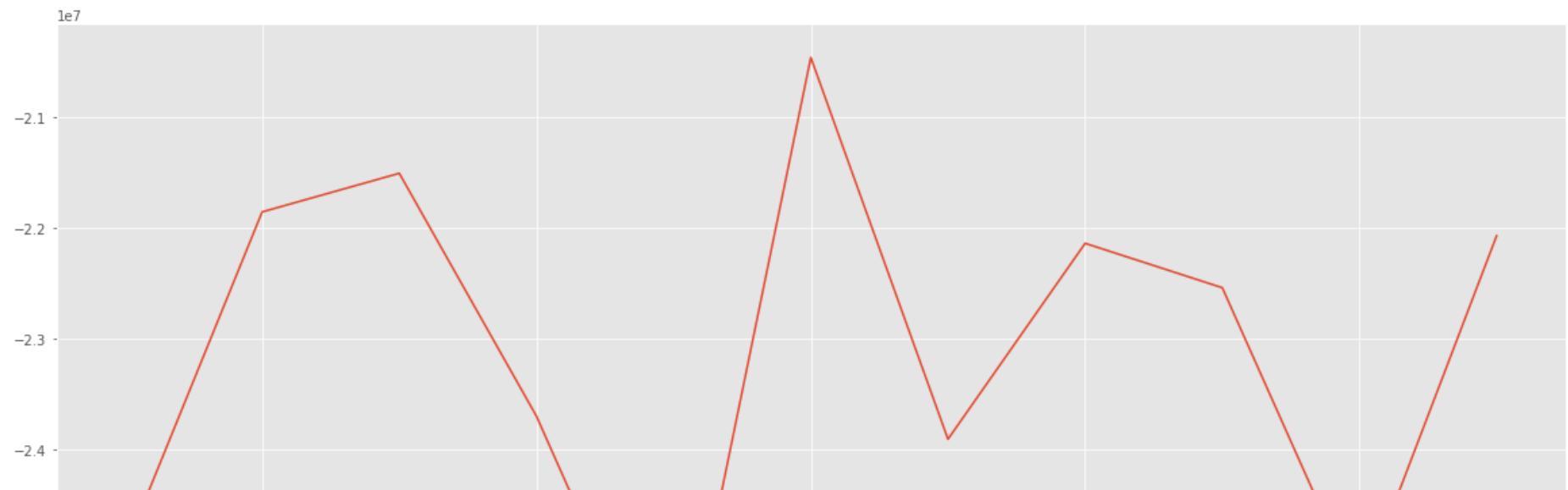
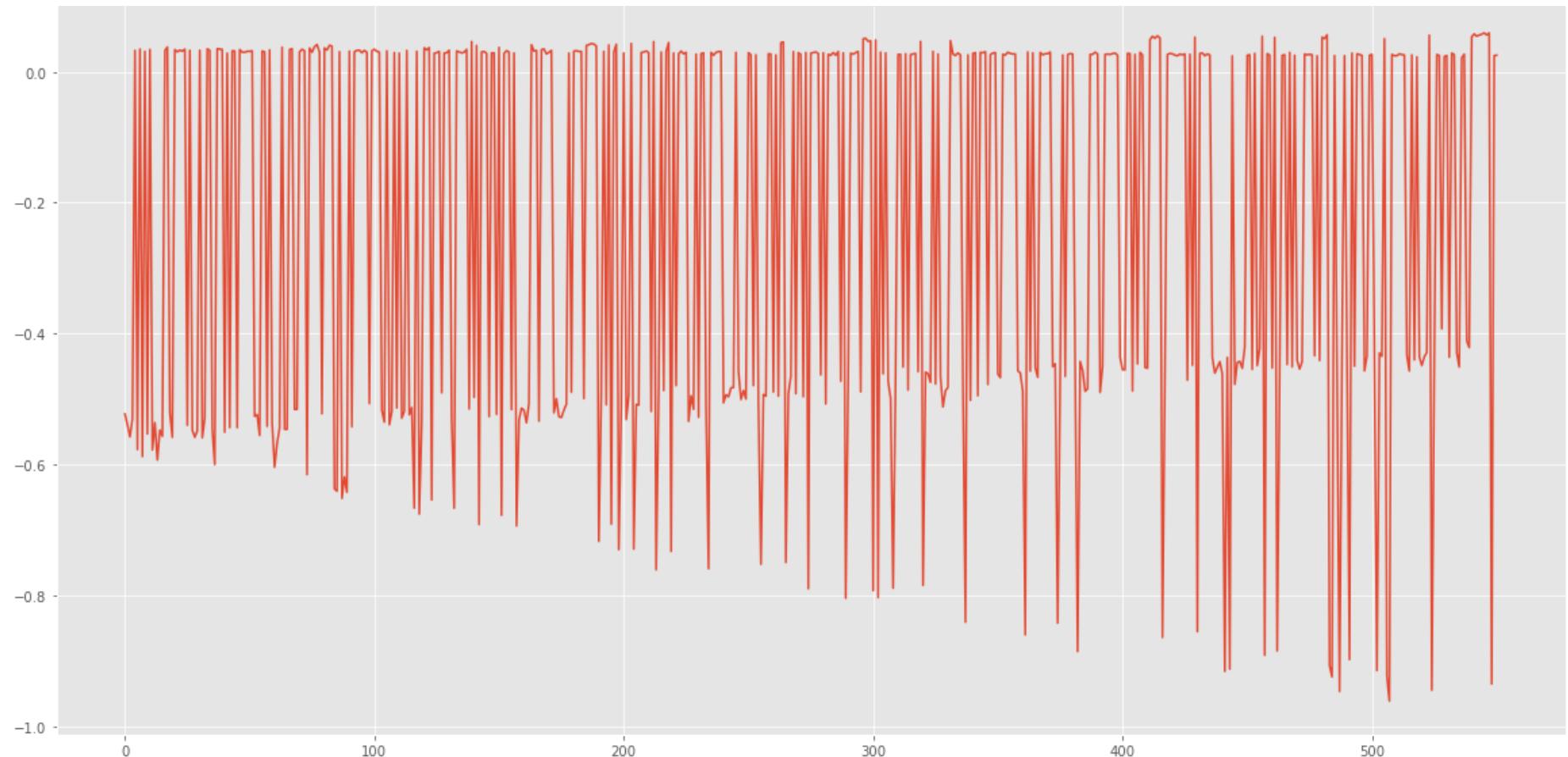


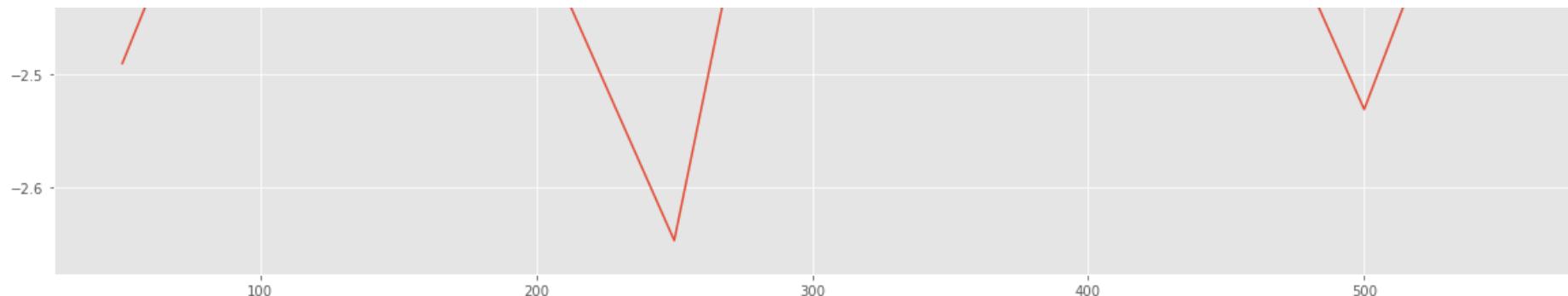


100 200 300 400 500

episode: 502/5000, score:-44652406.43700028, e: 0.78 , Win%: 44.19035846724351 %
episode: 503/5000, score:-91518918.41300227, e: 0.78 , Win%: 44.46450060168472 %
episode: 504/5000, score:-42983882.01800057, e: 0.78 , Win%: 45.073891625615765 %
episode: 505/5000, score:-43466832.2450006, e: 0.78 , Win%: 43.67488931056293 %
episode: 506/5000, score:5083851.245999891, e: 0.78 , Win%: 55.19270373639306 %
episode: 507/5000, score:-92345737.03699788, e: 0.78 , Win%: 43.6085718567361 %
episode: 508/5000, score:-96173833.53100306, e: 0.78 , Win%: 43.93390346427019 %
episode: 509/5000, score:2670341.566000006, e: 0.78 , Win%: 56.99647774575728 %
episode: 510/5000, score:2473018.1020000014, e: 0.78 , Win%: 56.41838351822504 %
episode: 511/5000, score:2478140.190000006, e: 0.77 , Win%: 55.54850982878884 %
episode: 512/5000, score:2751870.716000005, e: 0.77 , Win%: 56.72162333544705 %
episode: 513/5000, score:2644794.8390000146, e: 0.77 , Win%: 55.47536868528397 %
episode: 514/5000, score:2577242.4970000023, e: 0.77 , Win%: 55.409132699969355 %
episode: 515/5000, score:-43318511.8250000696, e: 0.77 , Win%: 43.425660617637696 %
episode: 516/5000, score:-45723426.58700053, e: 0.77 , Win%: 41.79711959924859 %
episode: 517/5000, score:2605355.445000007, e: 0.77 , Win%: 56.057303020865774 %
episode: 518/5000, score:-44024322.66200016, e: 0.77 , Win%: 44.29810472213299 %
episode: 519/5000, score:2305397.0959999776, e: 0.77 , Win%: 54.2819928362097 %
episode: 520/5000, score:-43549260.00900036, e: 0.77 , Win%: 43.82832080200501 %
episode: 521/5000, score:-44872643.746000335, e: 0.77 , Win%: 43.05116866708781 %
episode: 522/5000, score:-43553326.200000204, e: 0.77 , Win%: 44.84249536751081 %
episode: 523/5000, score:-42877524.2820006, e: 0.77 , Win%: 44.91927825261158 %
episode: 524/5000, score:5617530.871999833, e: 0.77 , Win%: 56.648820720590365 %
episode: 525/5000, score:-94519330.05099814, e: 0.77 , Win%: 43.656227239621266 %
episode: 526/5000, score:-44068650.093000494, e: 0.77 , Win%: 43.90854995302224 %
episode: 527/5000, score:2645248.57100003, e: 0.77 , Win%: 57.347784507491234 %
episode: 528/5000, score:2503544.9990000334, e: 0.77 , Win%: 56.58567774936061 %
episode: 529/5000, score:-39288931.41700053, e: 0.77 , Win%: 45.246535610699326 %
episode: 530/5000, score:2343899.5150000323, e: 0.77 , Win%: 54.936708860759495 %
episode: 531/5000, score:2492392.403999982, e: 0.77 , Win%: 56.3448498546981 %
episode: 532/5000, score:-43621679.436000176, e: 0.77 , Win%: 42.97994269340974 %
episode: 533/5000, score:2868811.592000006, e: 0.77 , Win%: 57.05882352941177 %
episode: 534/5000, score:2629022.576000004, e: 0.77 , Win%: 55.41195476575121 %
episode: 535/5000, score:-42936525.40400069, e: 0.77 , Win%: 44.39847231063017 %
episode: 536/5000, score:-45103423.047000125, e: 0.77 , Win%: 43.77722464219042 %
episode: 537/5000, score:2146833.614000024, e: 0.76 , Win%: 54.06189555125725 %
episode: 538/5000, score:2700704.68000004, e: 0.76 , Win%: 56.97526949904883 %
episode: 539/5000, score:-41115304.23400046, e: 0.76 , Win%: 44.88137796555086 %
episode: 540/5000, score:-42130651.22000056, e: 0.76 , Win%: 43.78484749098065 %
episode: 541/5000, score:5365258.133999893, e: 0.76 , Win%: 54.45786597641645 %
episode: 542/5000, score:5802542.0309999855, e: 0.76 , Win%: 56.15890254358388 %
episode: 543/5000, score:5435009.958000036, e: 0.76 , Win%: 56.22053992286816 %
episode: 544/5000, score:5629304.241999984, e: 0.76 , Win%: 55.233790083345106 %
episode: 545/5000, score:5759234.686999875, e: 0.76 , Win%: 56.13483788030281 %
episode: 546/5000, score:5946864.821999857, e: 0.76 , Win%: 56.737487523171254 %
episode: 547/5000, score:5657049.836999884, e: 0.76 , Win%: 55.91749644381223 %
episode: 548/5000, score:5953389.283999896, e: 0.76 , Win%: 57.395848454057194 %
episode: 549/5000, score:-93576215.98599853, e: 0.76 , Win%: 45.18403610210125 %
episode: 550/5000, score:2477761.860999998, e: 0.76 , Win%: 56.71788166067342 %
episode: 551/5000, score:2552710.8329999987, e: 0.76 , Win%: 56.853785900783286 %

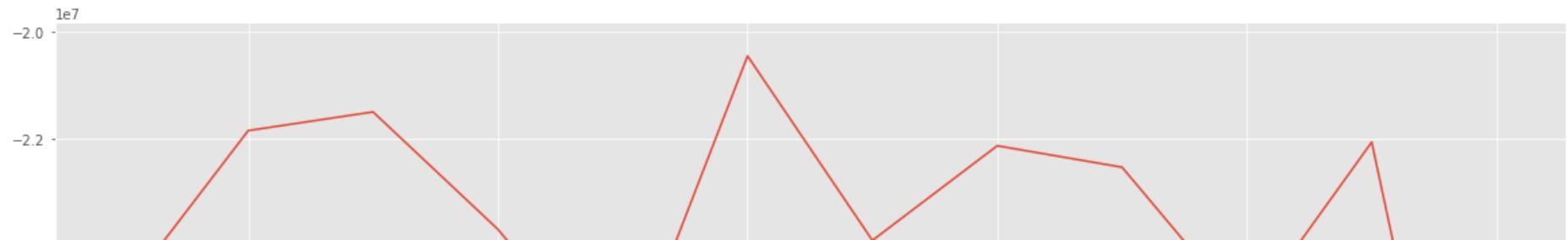
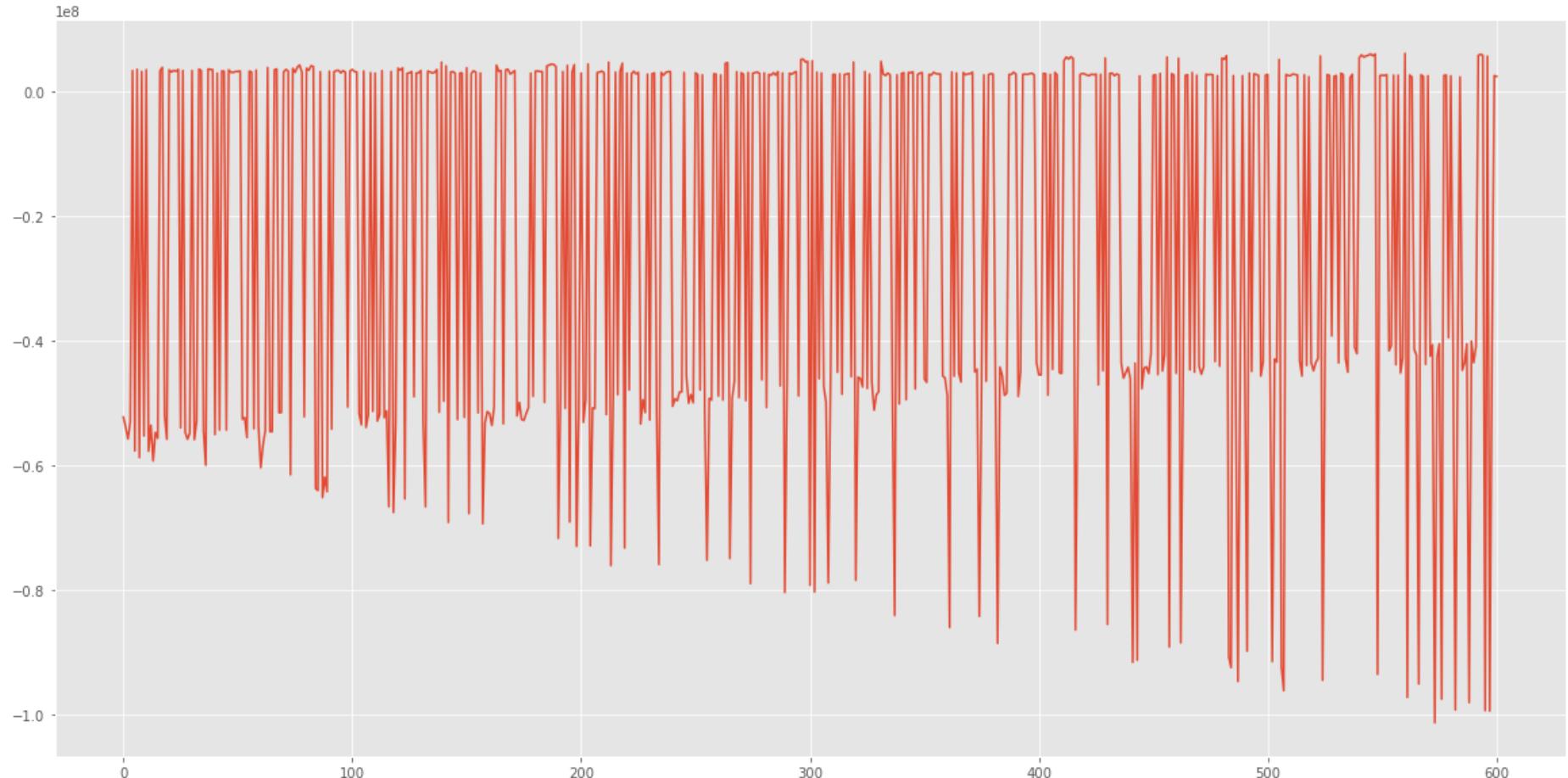
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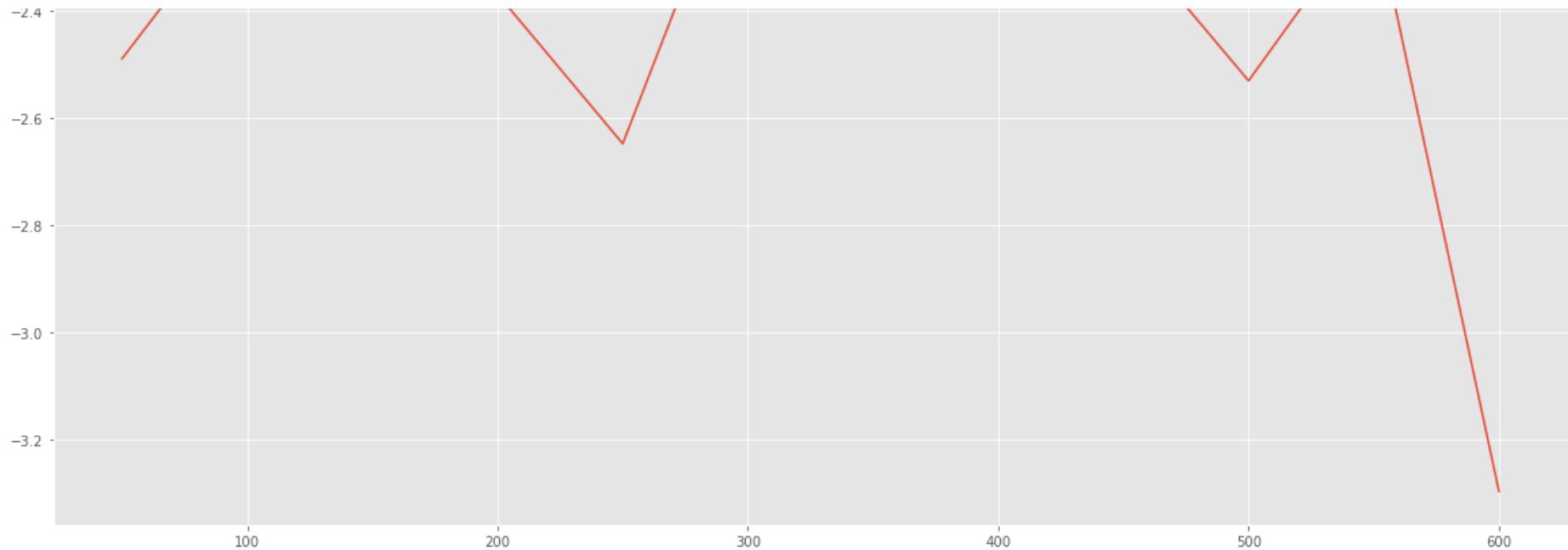




episode: 552/5000, score:2490562.335000002, e: 0.76 , Win%: 55.37720706260032 %
episode: 553/5000, score:2642132.1990000033, e: 0.76 , Win%: 58.391031981536436 %
episode: 554/5000, score:-41660203.447000496, e: 0.76 , Win%: 44.673202614379086 %
episode: 555/5000, score:-40835678.68500063, e: 0.76 , Win%: 46.082507195394946 %
episode: 556/5000, score:2560467.70300005, e: 0.76 , Win%: 56.11353711790393 %
episode: 557/5000, score:-43904448.47600057, e: 0.76 , Win%: 42.97680412371134 %
episode: 558/5000, score:2562460.984999999, e: 0.76 , Win%: 55.53812362723564 %
episode: 559/5000, score:-45230872.00600068, e: 0.76 , Win%: 42.51796313651984 %
episode: 560/5000, score:-42805536.112999745, e: 0.76 , Win%: 44.19642857142857 %
episode: 561/5000, score:6048687.73900021, e: 0.76 , Win%: 56.294736842105266 %
episode: 562/5000, score:-97267626.17699763, e: 0.76 , Win%: 44.017995220019685 %
episode: 563/5000, score:2567867.886999993, e: 0.75 , Win%: 56.44951140065147 %
episode: 564/5000, score:2252927.690999971, e: 0.75 , Win%: 54.35831457060148 %
episode: 565/5000, score:-41424756.781999506, e: 0.75 , Win%: 44.89664082687339 %
episode: 566/5000, score:-42362599.129000016, e: 0.75 , Win%: 44.17920209287116 %
episode: 567/5000, score:-95119902.06699838, e: 0.75 , Win%: 43.91353811149033 %
episode: 568/5000, score:2597179.025000083, e: 0.75 , Win%: 56.31100639515315 %
episode: 569/5000, score:2335081.1259999988, e: 0.75 , Win%: 54.6031746031746 %
episode: 570/5000, score:-43839973.360000245, e: 0.75 , Win%: 43.75404530744336 %
episode: 571/5000, score:2460769.92200002, e: 0.75 , Win%: 56.6996699669967 %
episode: 572/5000, score:-42536073.455000654, e: 0.75 , Win%: 42.727860374919196 %
episode: 573/5000, score:-40698818.25499992, e: 0.75 , Win%: 45.385878489326764 %
episode: 574/5000, score:-101341112.15500264, e: 0.75 , Win%: 43.76562066092752 %
episode: 575/5000, score:-42783143.305000454, e: 0.75 , Win%: 43.07692307692308 %
episode: 576/5000, score:-40529641.41200062, e: 0.75 , Win%: 45.386856587892524 %
episode: 577/5000, score:-97554055.73999795, e: 0.75 , Win%: 42.94808318008205 %
episode: 578/5000, score:2508101.6369999754, e: 0.75 , Win%: 56.87110528041981 %
episode: 579/5000, score:2566237.286999964, e: 0.75 , Win%: 55.728155339805824 %
episode: 580/5000, score:-39571065.480000526, e: 0.75 , Win%: 46.07451763140386 %
episode: 581/5000, score:2440990.337999999, e: 0.75 , Win%: 55.050341019811626 %
episode: 582/5000, score:-41942313.90700059, e: 0.75 , Win%: 43.59308770785784 %
episode: 583/5000, score:-99274085.77999751, e: 0.75 , Win%: 42.86902286902287 %
episode: 584/5000, score:-42301833.5600006, e: 0.75 , Win%: 44.08496732026144 %
episode: 585/5000, score:2272626.9780000267, e: 0.75 , Win%: 54.83870967741935 %
episode: 586/5000, score:-44788208.43700069, e: 0.75 , Win%: 43.676703645007926 %
episode: 587/5000, score:-43670035.144000635, e: 0.75 , Win%: 44.28387925497752 %
episode: 588/5000, score:-40541742.79600036, e: 0.75 , Win%: 44.22127099110965 %
episode: 589/5000, score:-98100156.39899816, e: 0.75 , Win%: 44.75717439293598 %
episode: 590/5000, score:-40120497.2660005, e: 0.74 , Win%: 45.5 %
episode: 591/5000, score:-43565628.16800062, e: 0.74 , Win%: 42.57294429708223 %
episode: 592/5000, score:-40973861.30500052, e: 0.74 , Win%: 41.77598385469223 %

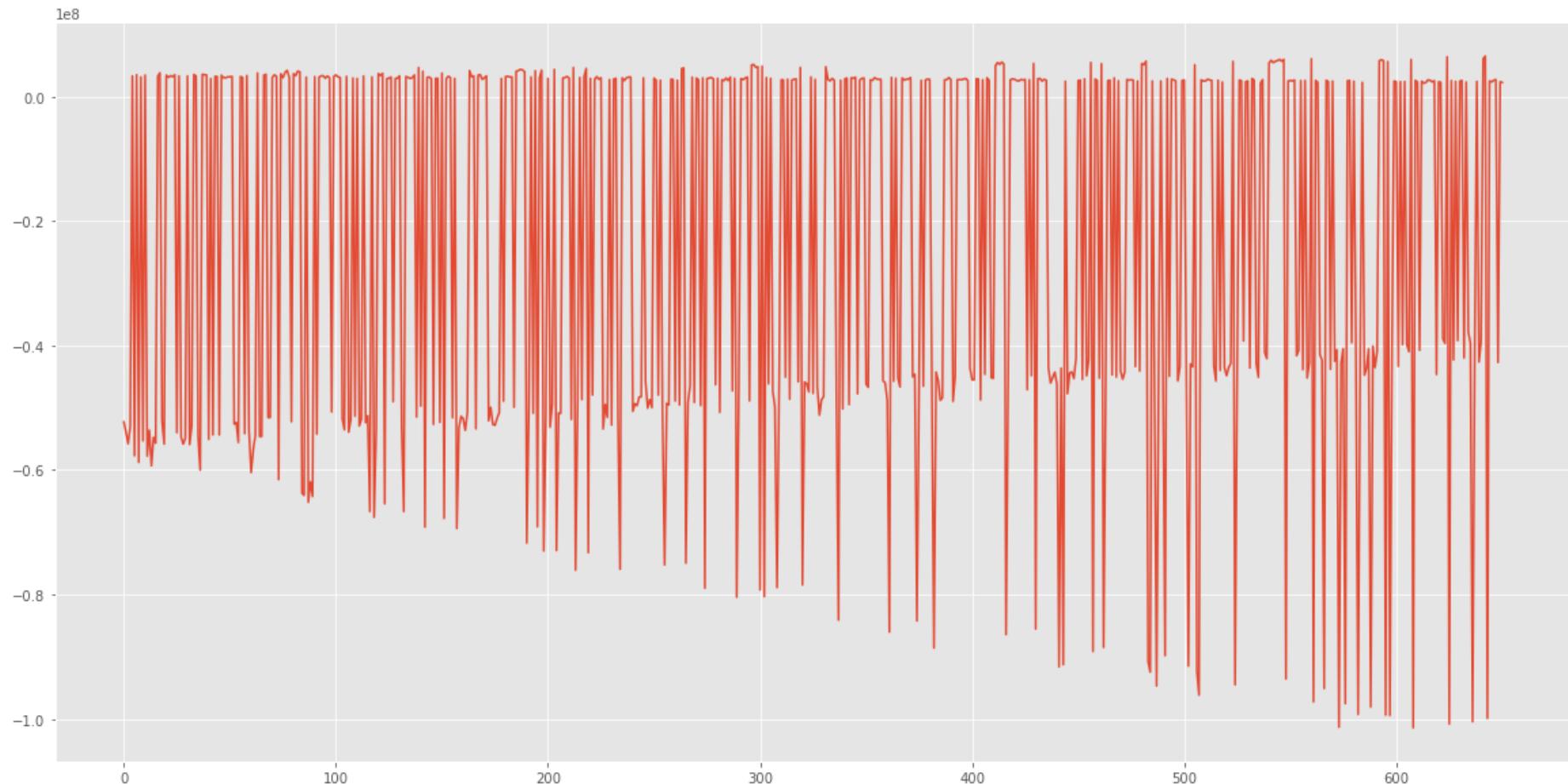
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episode: 593/5000, score:5722648.691999875, e: 0.74 , Win%: 55.6882118841773 %
episode: 594/5000, score:5905175.757999813, e: 0.74 , Win%: 55.98790045373298 %
episode: 595/5000, score:5726347.224000006, e: 0.74 , Win%: 55.424200278164115 %
episode: 596/5000, score:-99388174.1000026, e: 0.74 , Win%: 43.123446561723284 %
episode: 597/5000, score:5596783.790000164, e: 0.74 , Win%: 55.355397290881164 %
episode: 598/5000, score:-99454356.73899737, e: 0.74 , Win%: 42.615857063093245 %
episode: 599/5000, score:-40695501.238999985, e: 0.74 , Win%: 44.659875123233654 %
episode: 600/5000, score:2479009.569999999, e: 0.74 , Win%: 56.889037881327525 %
episode: 601/5000, score:2339288.1100000194, e: 0.74 , Win%: 54.85135576608951 %
```

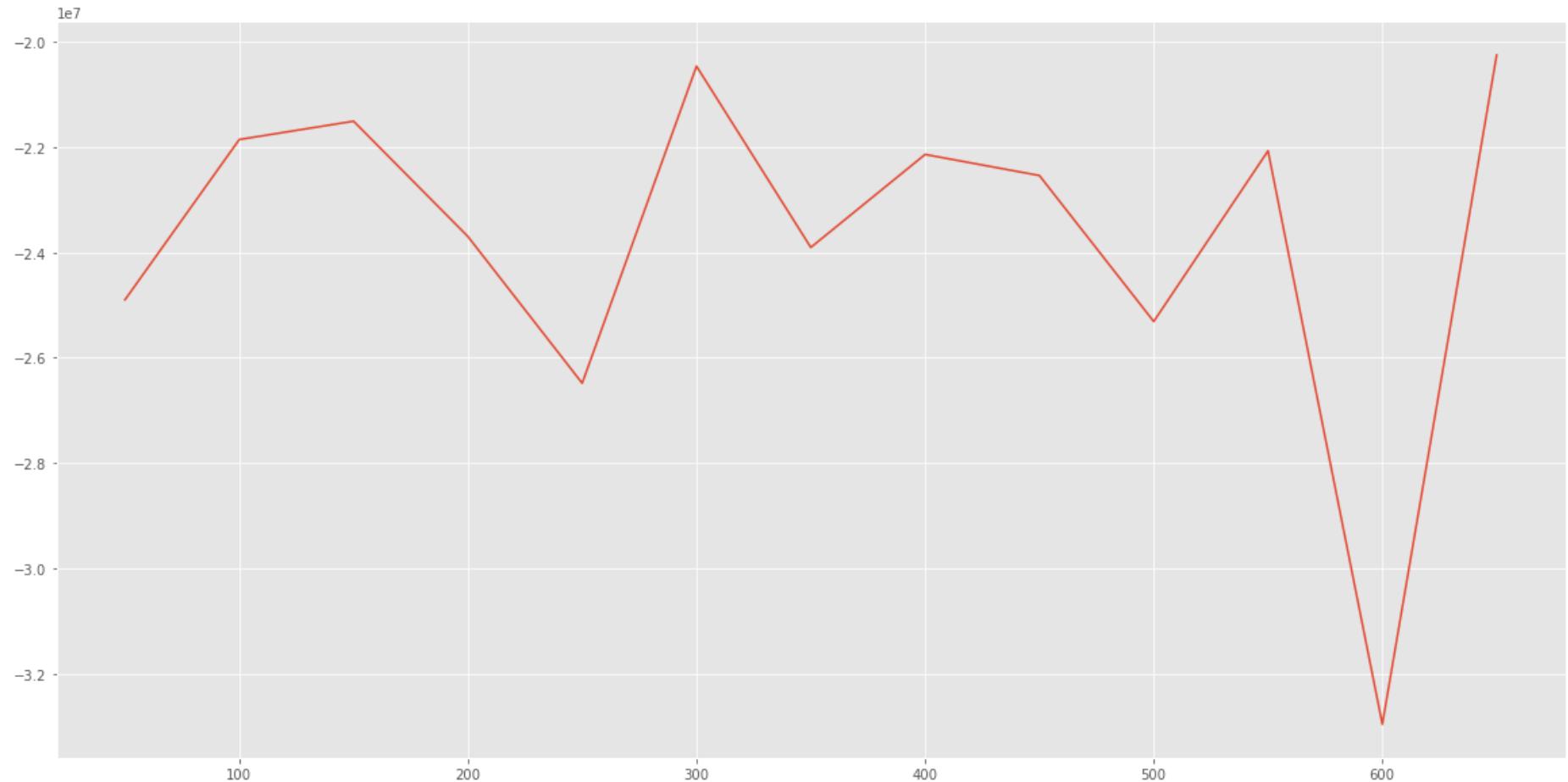




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episode: 602/5000, score:-43364876.90700032, e: 0.74 , Win%: 43.73962138824311 %
episode: 603/5000, score:2375798.4849999994, e: 0.74 , Win%: 56.504727746984024 %
episode: 604/5000, score:-39874203.37200043, e: 0.74 , Win%: 45.9 %
episode: 605/5000, score:2384265.48500003, e: 0.74 , Win%: 56.14754098360656 %
episode: 606/5000, score:-39812427.971000016, e: 0.74 , Win%: 46.430953969312874 %
episode: 607/5000, score:-41002511.009000435, e: 0.74 , Win%: 45.34692535350214 %
episode: 608/5000, score:5944022.829999986, e: 0.74 , Win%: 56.20699146710707 %
episode: 609/5000, score:-101424915.03899671, e: 0.74 , Win%: 42.66848196051736 %
episode: 610/5000, score:2578892.278000037, e: 0.74 , Win%: 56.08177172061329 %
episode: 611/5000, score:2309381.160000028, e: 0.74 , Win%: 55.095222185098564 %
episode: 612/5000, score:-40785611.9920005, e: 0.74 , Win%: 44.6843310435067 %
episode: 613/5000, score:2435204.180000008, e: 0.74 , Win%: 54.632377184305966 %
episode: 614/5000, score:2136464.0469999984, e: 0.74 , Win%: 54.45749827228749 %
episode: 615/5000, score:2233976.4410000094, e: 0.74 , Win%: 55.21492835721426 %
episode: 616/5000, score:2666175.6609999873, e: 0.74 , Win%: 56.60071359065845 %
episode: 617/5000, score:2585620.1530000074, e: 0.73 , Win%: 56.1801446416831 %
episode: 618/5000, score:2337298.0560000157, e: 0.73 , Win%: 55.58235699517574 %
episode: 619/5000, score:2527869.9419999984, e: 0.73 , Win%: 56.363038474186126 %
episode: 620/5000, score:-44657229.23000068, e: 0.73 , Win%: 42.86183130948474 %
episode: 621/5000, score:2347571.032000002, e: 0.73 , Win%: 55.55186170212766 %
episode: 622/5000, score:2273651.0709999977, e: 0.73 , Win%: 55.74750830564784 %
episode: 623/5000, score:-38909880.75700049, e: 0.73 , Win%: 43.92396469789545 %
episode: 624/5000, score:-39677292.5630005, e: 0.73 , Win%: 45.46072764365862 %
episode: 625/5000, score:6365680.036000037, e: 0.73 , Win%: 56.19034633215162 %
episode: 626/5000, score:-100834698.60100302, e: 0.73 , Win%: 44.125572621934786 %
episode: 627/5000, score:2554935.070000001, e: 0.73 , Win%: 56.11631016042781 %
episode: 628/5000, score:-42338751.154000126, e: 0.73 , Win%: 43.44919786096256 %
episode: 629/5000, score:2403384.1620000023, e: 0.73 , Win%: 55.98086124401914 %
episode: 630/5000, score:-39220156.97800033, e: 0.73 , Win%: 43.379906852960744 %
episode: 631/5000, score:2442553.151999965, e: 0.73 , Win%: 54.5514950166113 %
```

```
episode: 632/5000, score:2573200.843999971, e: 0.73 , Win%: 56.364240611498836 %
episode: 633/5000, score:-42010259.90700059, e: 0.73 , Win%: 44.599416153097636 %
episode: 634/5000, score:2311155.3399999975, e: 0.73 , Win%: 56.70068027210884 %
episode: 635/5000, score:-37827005.94500062, e: 0.73 , Win%: 45.57755775577558 %
episode: 636/5000, score:-39678433.75600051, e: 0.73 , Win%: 43.76899696048632 %
episode: 637/5000, score:-100464004.43000259, e: 0.73 , Win%: 44.81271894368095 %
episode: 638/5000, score:-41130284.482000515, e: 0.73 , Win%: 43.632153489910685 %
episode: 639/5000, score:2403153.474000046, e: 0.73 , Win%: 55.419639823309545 %
episode: 640/5000, score:-42668744.057000116, e: 0.73 , Win%: 43.629846855653305 %
episode: 641/5000, score:-39386304.317000486, e: 0.73 , Win%: 44.941569282136896 %
episode: 642/5000, score:6048211.278999826, e: 0.73 , Win%: 56.40710382513661 %
episode: 643/5000, score:6479340.053999853, e: 0.73 , Win%: 57.4445335471799 %
episode: 644/5000, score:-99910816.01399745, e: 0.73 , Win%: 42.945121116737376 %
episode: 645/5000, score:2491688.370999995, e: 0.72 , Win%: 57.05982905982906 %
episode: 646/5000, score:2329614.5490000118, e: 0.72 , Win%: 54.94835054981673 %
episode: 647/5000, score:2594508.5160000264, e: 0.72 , Win%: 57.898305084745765 %
episode: 648/5000, score:2710853.884000014, e: 0.72 , Win%: 57.49410575951499 %
episode: 649/5000, score:-42737375.060000606, e: 0.72 , Win%: 42.871587462082914 %
episode: 650/5000, score:2358341.5210000277, e: 0.72 , Win%: 54.77707006369427 %
episode: 651/5000, score:2232414.816000002, e: 0.72 , Win%: 54.657534246575345 %
```

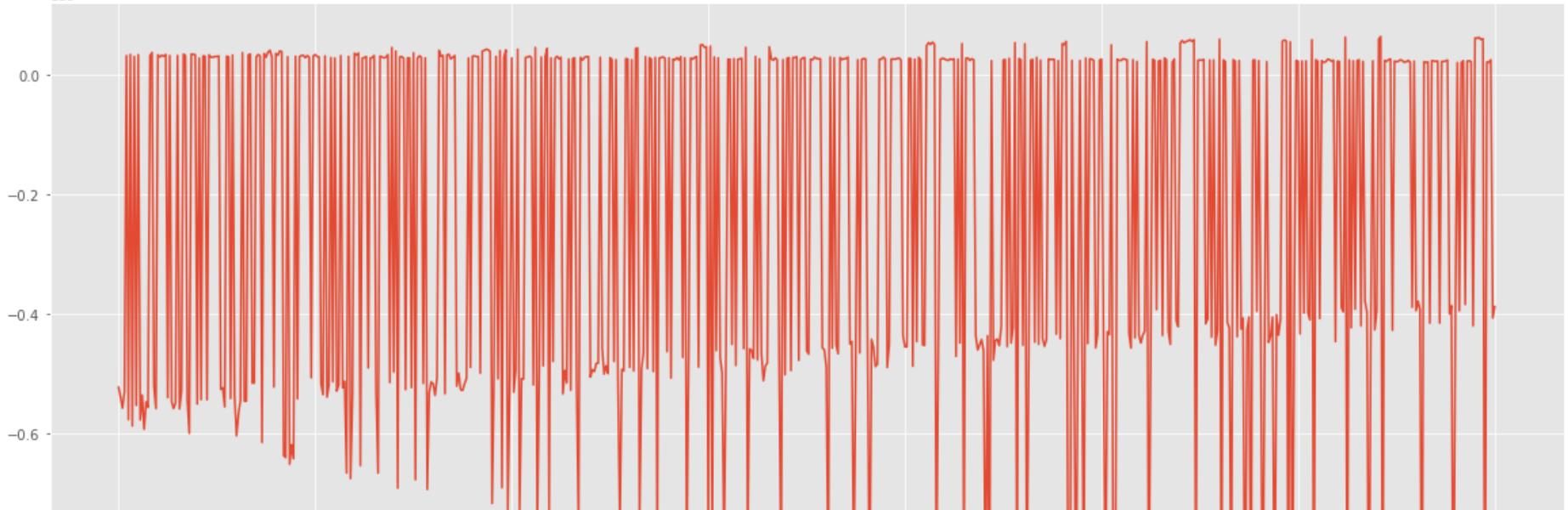




episode: 652/5000, score:2346249.787999998, e: 0.72 , Win%: 56.05182407091715 %
episode: 653/5000, score:2577931.728000004, e: 0.72 , Win%: 55.919055649241145 %
episode: 654/5000, score:2449757.373000006, e: 0.72 , Win%: 56.57142857142857 %
episode: 655/5000, score:2156262.6450000033, e: 0.72 , Win%: 54.599303135888505 %
episode: 656/5000, score:2250401.1499999985, e: 0.72 , Win%: 56.167706167706164 %
episode: 657/5000, score:2489630.606000028, e: 0.72 , Win%: 56.9811320754717 %
episode: 658/5000, score:2177272.8130000224, e: 0.72 , Win%: 54.22012153950034 %
episode: 659/5000, score:-38901193.487000406, e: 0.72 , Win%: 43.87312186978297 %
episode: 660/5000, score:2354385.666999997, e: 0.72 , Win%: 56.06112054329372 %
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episode: 662/5000, score:-37881097.35200044, e: 0.72 , Win%: 45.41079408731523 %
episode: 663/5000, score:-39260216.30800035, e: 0.72 , Win%: 44.0897930550684 %
episode: 664/5000, score:-105059669.47399686, e: 0.72 , Win%: 42.34912394548994 %
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episode: 666/5000, score:2140739.8330000015, e: 0.72 , Win%: 55.44827586206897 %
episode: 667/5000, score:2226509.616000001, e: 0.72 , Win%: 55.657492354740064 %
episode: 668/5000, score:-41564800.08800064, e: 0.72 , Win%: 42.96525627794978 %
episode: 669/5000, score:2452592.2810000274, e: 0.72 , Win%: 56.09843081312411 %
episode: 670/5000, score:2376407.709000005, e: 0.72 , Win%: 56.33656509695291 %

episode: 672/5000, score:2384968.3229999673, e: 0.71 , Win%: 55.32423208191126 %
episode: 673/5000, score:-41540656.437000535, e: 0.71 , Win%: 44.60552933243425 %
episode: 674/5000, score:2308020.5160000115, e: 0.71 , Win%: 55.171184022824534 %
episode: 675/5000, score:2286601.710999962, e: 0.71 , Win%: 56.33613445378151 %
episode: 676/5000, score:2395982.78800002, e: 0.71 , Win%: 56.22489959839358 %
episode: 677/5000, score:2536809.21400003, e: 0.71 , Win%: 57.18633750422726 %
episode: 678/5000, score:-39990522.49900049, e: 0.71 , Win%: 44.49294828744124 %
episode: 679/5000, score:-38618751.141000606, e: 0.71 , Win%: 41.62782359268555 %
episode: 680/5000, score:-102407345.64999741, e: 0.71 , Win%: 44.65408805031446 %
episode: 681/5000, score:-40355995.69600056, e: 0.71 , Win%: 44.55205811138015 %
episode: 682/5000, score:2113703.7550000115, e: 0.71 , Win%: 54.478398314014754 %
episode: 683/5000, score:-39491038.04999982, e: 0.71 , Win%: 44.380610412926394 %
episode: 684/5000, score:2115659.1559999795, e: 0.71 , Win%: 53.396691305878214 %
episode: 685/5000, score:2424600.437000032, e: 0.71 , Win%: 56.01743211532015 %
episode: 686/5000, score:-38427363.923999734, e: 0.71 , Win%: 43.268206039076375 %
episode: 687/5000, score:2340646.664999995, e: 0.71 , Win%: 55.737146748382706 %
episode: 688/5000, score:2428337.34100009, e: 0.71 , Win%: 56.21096460791117 %
episode: 689/5000, score:2257475.6270000264, e: 0.71 , Win%: 54.42554668517876 %
episode: 690/5000, score:-42016029.429000504, e: 0.71 , Win%: 42.068036375884134 %
episode: 691/5000, score:6255231.219999899, e: 0.71 , Win%: 55.86296056884292 %
episode: 692/5000, score:6190386.942999875, e: 0.71 , Win%: 55.86714913414319 %
episode: 693/5000, score:6344759.17099984, e: 0.71 , Win%: 57.18674859738178 %
episode: 694/5000, score:5981758.460999886, e: 0.71 , Win%: 55.46967116467968 %
episode: 695/5000, score:6106601.642999937, e: 0.71 , Win%: 56.0330365208414 %
episode: 696/5000, score:-106035420.68299705, e: 0.71 , Win%: 43.99793254942499 %
episode: 697/5000, score:2208743.4229999776, e: 0.71 , Win%: 55.951532430506056 %
episode: 698/5000, score:2143999.8050000235, e: 0.71 , Win%: 53.869969040247675 %
episode: 699/5000, score:2572653.4160000244, e: 0.71 , Win%: 56.582146578673154 %
episode: 700/5000, score:-40677444.91800049, e: 0.7 , Win%: 43.14808422506041 %
episode: 701/5000, score:-38794310.31499982, e: 0.7 , Win%: 43.8034188034188 %

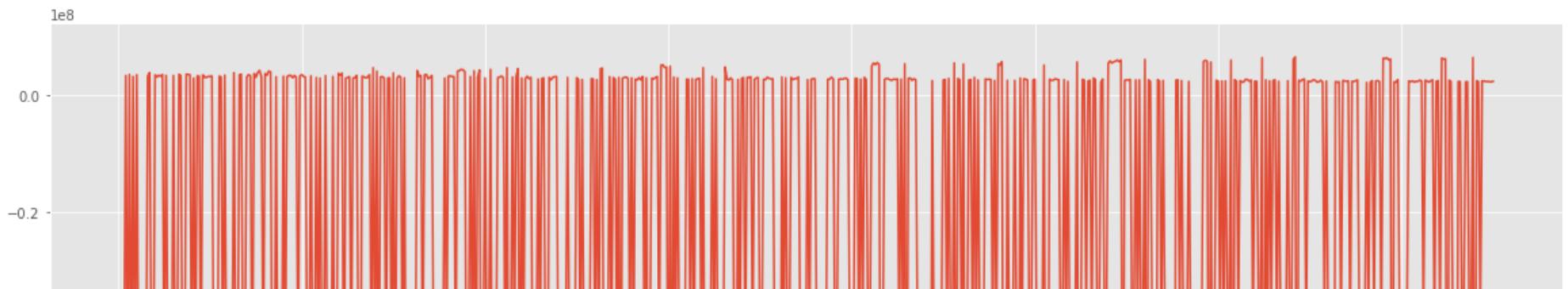
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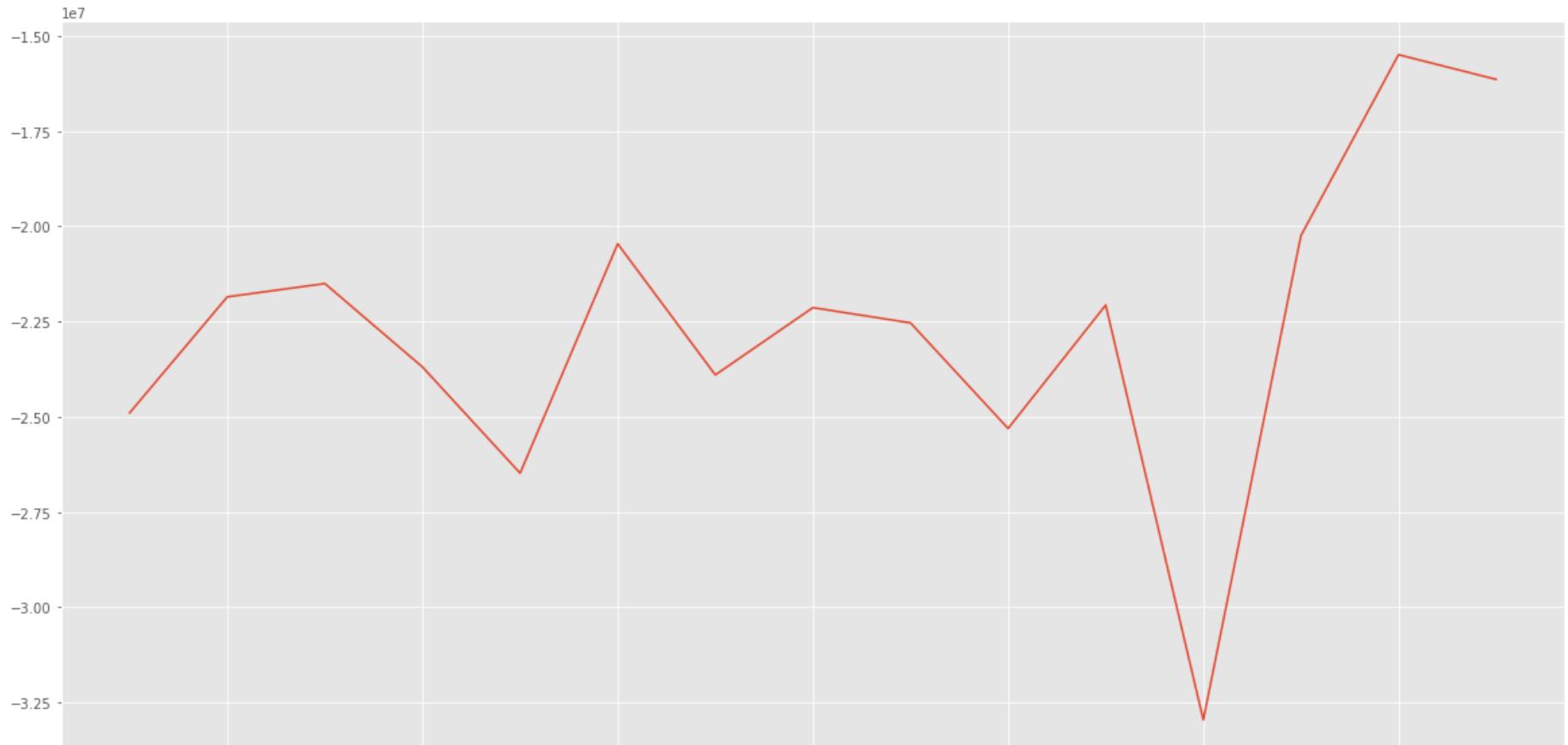
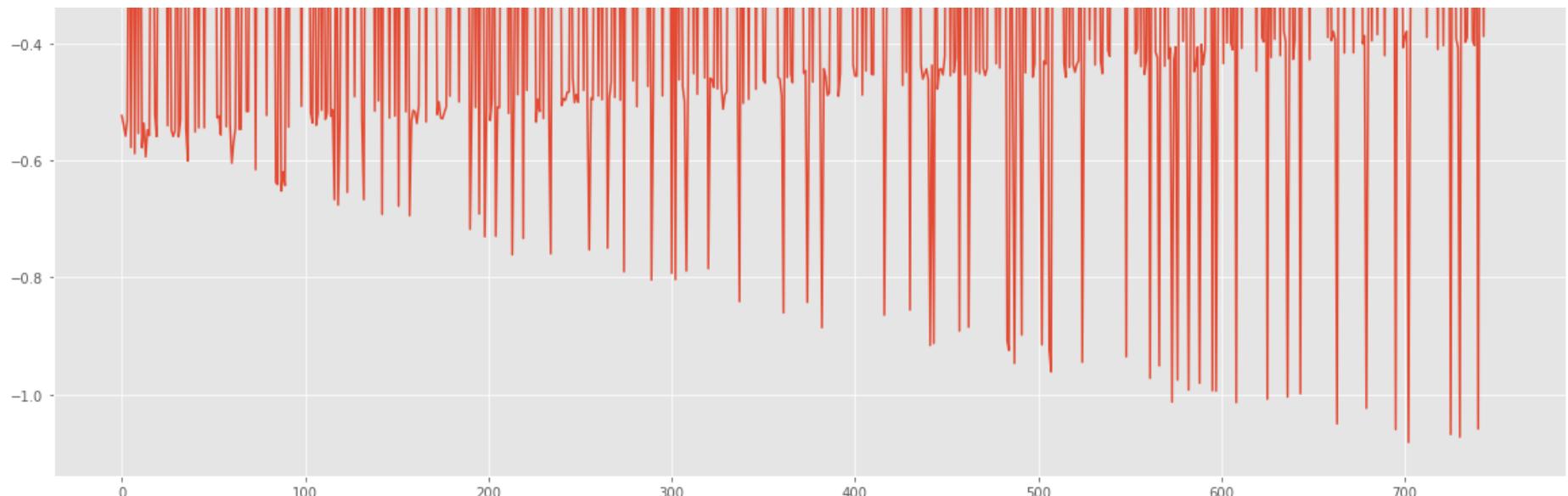




episode: 702/5000, score:-37865544.382000424, e: 0.7 , Win%: 45.281054823039554 %
episode: 703/5000, score:-108251831.3010035, e: 0.7 , Win%: 43.909312155757654 %
episode: 704/5000, score:-38364491.02000047, e: 0.7 , Win%: 43.731988472622476 %
episode: 705/5000, score:2374215.419999997, e: 0.7 , Win%: 53.947814300237205 %
episode: 706/5000, score:2255318.5300000035, e: 0.7 , Win%: 55.352839931153184 %
episode: 707/5000, score:2383581.7610000186, e: 0.7 , Win%: 56.10093328724508 %
episode: 708/5000, score:2171401.123000008, e: 0.7 , Win%: 55.59502664298402 %
episode: 709/5000, score:2307765.302000019, e: 0.7 , Win%: 55.44794188861985 %
episode: 710/5000, score:2295942.49400002, e: 0.7 , Win%: 54.87762840399862 %

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episode: 711/5000, score:2505412.485000024, e: 0.7 , Win%: 55.92747559274756 %
episode: 712/5000, score:2334918.003000014, e: 0.7 , Win%: 54.9948578247528 %
episode: 713/5000, score:-38876652.7870004, e: 0.7 , Win%: 43.91014391014391 %
episode: 714/5000, score:2497100.3390000183, e: 0.7 , Win%: 56.815020862308764 %
episode: 715/5000, score:2350296.8459999976, e: 0.7 , Win%: 56.06837606837607 %
episode: 716/5000, score:2163773.7330000126, e: 0.7 , Win%: 53.92944463849109 %
episode: 717/5000, score:2411930.3480000016, e: 0.7 , Win%: 55.93922651933702 %
episode: 718/5000, score:2551515.506000026, e: 0.7 , Win%: 56.06382978723404 %
episode: 719/5000, score:-40949455.405, e: 0.7 , Win%: 43.73506316148856 %
episode: 720/5000, score:2301064.45700001, e: 0.7 , Win%: 55.22335561027084 %
episode: 721/5000, score:2433510.9930000016, e: 0.7 , Win%: 57.39604635310157 %
episode: 722/5000, score:-40321199.825000055, e: 0.7 , Win%: 42.79135671271697 %
episode: 723/5000, score:6272499.254999886, e: 0.7 , Win%: 56.10594677193429 %
episode: 724/5000, score:6091590.25199989, e: 0.7 , Win%: 55.58966487592735 %
episode: 725/5000, score:6143629.062999893, e: 0.7 , Win%: 55.70049569527785 %
episode: 726/5000, score:-106891318.98399633, e: 0.7 , Win%: 44.060613843585465 %
episode: 727/5000, score:2516127.7240000227, e: 0.7 , Win%: 56.38705186216499 %
episode: 728/5000, score:2310903.6990000047, e: 0.7 , Win%: 56.24336752741422 %
episode: 729/5000, score:-39089867.6650005, e: 0.69 , Win%: 44.38241451500349 %
episode: 730/5000, score:-40721257.04400061, e: 0.69 , Win%: 42.58997882851094 %
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episode: 732/5000, score:2273117.7350000297, e: 0.69 , Win%: 57.66501064584812 %
episode: 733/5000, score:2259099.7800000315, e: 0.69 , Win%: 55.87301587301587 %
episode: 734/5000, score:-39748183.113000035, e: 0.69 , Win%: 42.98642533936651 %
episode: 735/5000, score:-38900862.165000446, e: 0.69 , Win%: 45.316366207140334 %
episode: 736/5000, score:2191374.429000033, e: 0.69 , Win%: 54.65686274509804 %
episode: 737/5000, score:2240243.9669999997, e: 0.69 , Win%: 54.742939898624186 %
episode: 738/5000, score:-39448075.56500051, e: 0.69 , Win%: 42.93517844136927 %
episode: 739/5000, score:-40287466.99800055, e: 0.69 , Win%: 41.947029348604154 %
episode: 740/5000, score:6383631.830999882, e: 0.69 , Win%: 55.88272623429369 %
episode: 741/5000, score:-105922520.32099704, e: 0.69 , Win%: 44.30915149961548 %
episode: 742/5000, score:2426873.956000023, e: 0.69 , Win%: 56.580779944289695 %
episode: 743/5000, score:2238008.58500001, e: 0.69 , Win%: 56.229327453142226 %
episode: 744/5000, score:-38723698.8010005, e: 0.69 , Win%: 44.47663889894966 %
episode: 745/5000, score:2387459.739999974, e: 0.69 , Win%: 57.142857142857146 %
episode: 746/5000, score:2360958.53200008, e: 0.69 , Win%: 56.24340485402744 %
episode: 747/5000, score:2275072.245000034, e: 0.69 , Win%: 54.7508067407673 %
episode: 748/5000, score:2282574.688999997, e: 0.69 , Win%: 56.46186440677966 %
episode: 749/5000, score:2235210.256000012, e: 0.69 , Win%: 55.394411036434384 %
episode: 750/5000, score:2218851.238999999, e: 0.69 , Win%: 55.04943502824859 %
episode: 751/5000, score:2311647.100000094, e: 0.69 , Win%: 56.50319829424307 %
```

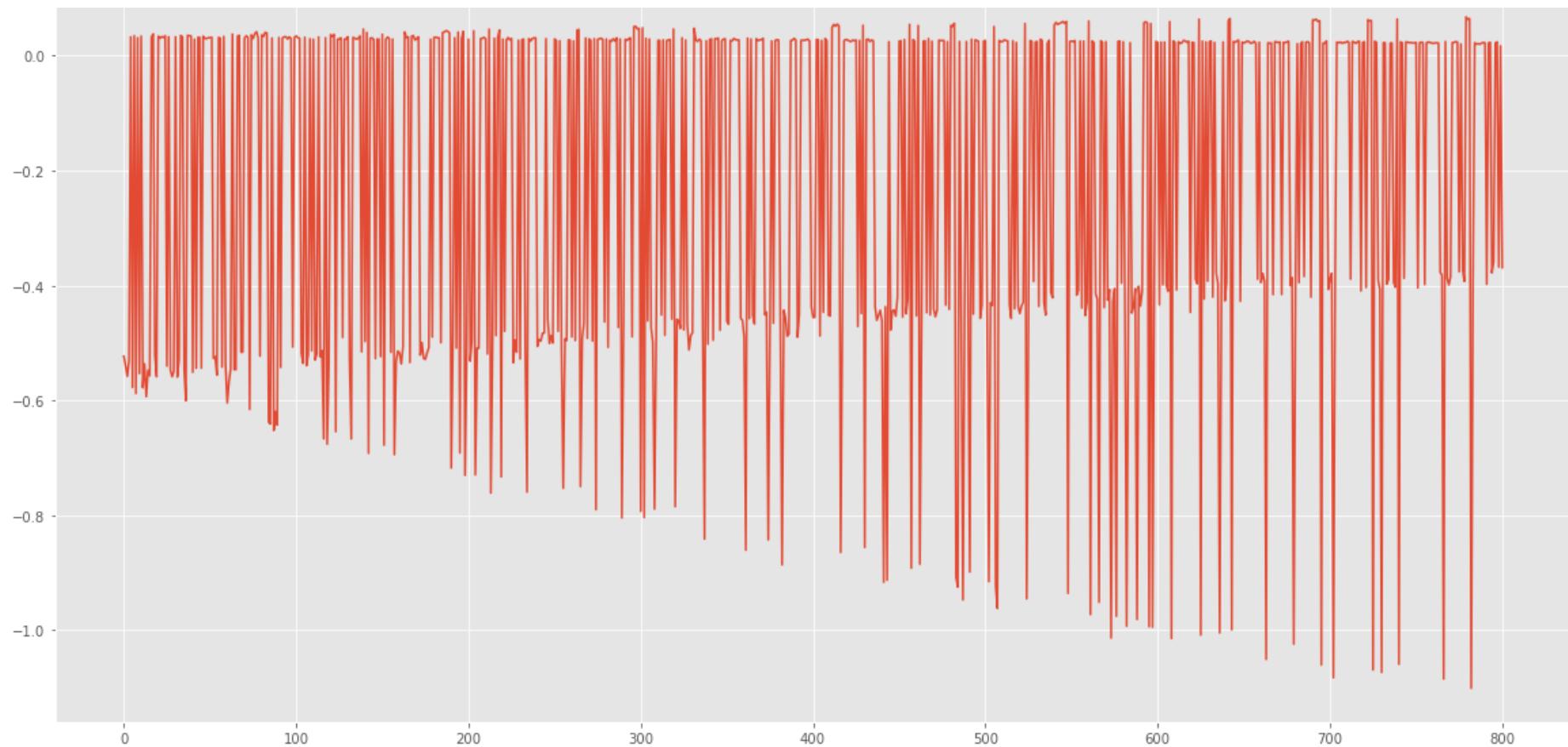


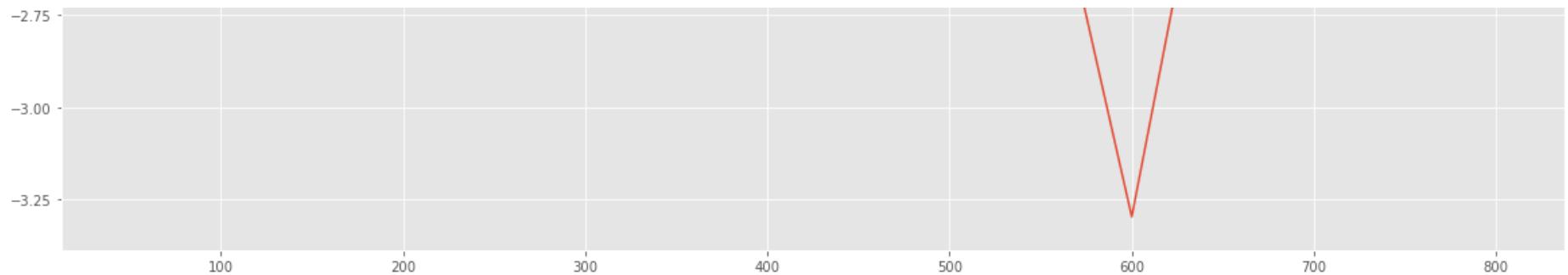


100 200 300 400 500 600 700

```
episode: 752/5000, score:-40401011.67600037, e: 0.69 , Win%: 42.059463379260336 %
episode: 753/5000, score:2240501.377000013, e: 0.69 , Win%: 55.586690017513135 %
episode: 754/5000, score:2372214.726000086, e: 0.69 , Win%: 55.683003128258605 %
episode: 755/5000, score:2240000.1699999957, e: 0.69 , Win%: 55.75953923686105 %
episode: 756/5000, score:-39828499.8670005, e: 0.69 , Win%: 43.63376251788269 %
episode: 757/5000, score:2242308.7240000283, e: 0.69 , Win%: 55.21385648639095 %
episode: 758/5000, score:2377904.45700004, e: 0.68 , Win%: 56.17154811715481 %
episode: 759/5000, score:2322197.965000025, e: 0.68 , Win%: 56.15550755939525 %
episode: 760/5000, score:2207409.0400001, e: 0.68 , Win%: 56.704707560627675 %
episode: 761/5000, score:2134312.66800005, e: 0.68 , Win%: 54.386590584878746 %
episode: 762/5000, score:2251178.60800006, e: 0.68 , Win%: 55.73539760731879 %
episode: 763/5000, score:2215738.916000067, e: 0.68 , Win%: 55.67606652205351 %
episode: 764/5000, score:2214471.93400008, e: 0.68 , Win%: 55.38625088589653 %
episode: 765/5000, score:-37685596.98100048, e: 0.68 , Win%: 44.074333800841515 %
episode: 766/5000, score:-38194032.32000046, e: 0.68 , Win%: 43.45827439886846 %
episode: 767/5000, score:-108472650.11299688, e: 0.68 , Win%: 44.46408281782603 %
episode: 768/5000, score:2487874.7400000324, e: 0.68 , Win%: 57.12746858168761 %
episode: 769/5000, score:-38726003.99800042, e: 0.68 , Win%: 44.91279069767442 %
episode: 770/5000, score:-39892527.83099997, e: 0.68 , Win%: 43.938307030129124 %
episode: 771/5000, score:-38414893.05700042, e: 0.68 , Win%: 44.45614035087719 %
episode: 772/5000, score:2286449.356000015, e: 0.68 , Win%: 55.86854460093897 %
episode: 773/5000, score:2304057.3610000378, e: 0.68 , Win%: 55.45836249125262 %
episode: 774/5000, score:2457200.2439999934, e: 0.68 , Win%: 56.35260528194147 %
episode: 775/5000, score:2374561.2360000336, e: 0.68 , Win%: 58.02645691812656 %
episode: 776/5000, score:-37596472.6480004, e: 0.68 , Win%: 43.49943799175721 %
episode: 777/5000, score:2036336.7370000023, e: 0.68 , Win%: 55.3030303030305 %
episode: 778/5000, score:-37228002.110000394, e: 0.68 , Win%: 45.24394524394524 %
episode: 779/5000, score:-39262351.45300049, e: 0.68 , Win%: 42.95373665480427 %
episode: 780/5000, score:6758099.767000012, e: 0.68 , Win%: 55.98522167487685 %
episode: 781/5000, score:6316823.384999891, e: 0.68 , Win%: 56.1751497005988 %
episode: 782/5000, score:6485919.238999988, e: 0.68 , Win%: 55.611159764794195 %
episode: 783/5000, score:-110082810.10400334, e: 0.68 , Win%: 44.358024691358025 %
episode: 784/5000, score:-39486709.31099996, e: 0.68 , Win%: 41.636495293265746 %
episode: 785/5000, score:2248742.5410000337, e: 0.68 , Win%: 55.58269364968597 %
episode: 786/5000, score:2041103.536000003, e: 0.68 , Win%: 55.17113095238095 %
episode: 787/5000, score:2128100.8220000123, e: 0.67 , Win%: 55.34613990576296 %
episode: 788/5000, score:2017926.2290000222, e: 0.67 , Win%: 55.28667163067759 %
episode: 789/5000, score:2182979.8630000087, e: 0.67 , Win%: 56.36836242109172 %
episode: 790/5000, score:2290261.5679999986, e: 0.67 , Win%: 55.790605951954106 %
episode: 791/5000, score:2231263.7680000016, e: 0.67 , Win%: 56.00890207715133 %
episode: 792/5000, score:-39782300.43800061, e: 0.67 , Win%: 44.56051873198847 %
episode: 793/5000, score:2211693.4980000076, e: 0.67 , Win%: 56.20014503263234 %
episode: 794/5000, score:2347283.0370000084, e: 0.67 , Win%: 57.65765765765766 %
episode: 795/5000, score:-37788338.70400026, e: 0.67 , Win%: 42.693726937269375 %
episode: 796/5000, score:-35815987.282000355, e: 0.67 , Win%: 43.8248502994012 %
episode: 797/5000, score:2221805.62700001, e: 0.67 , Win%: 55.048508803449515 %
episode: 798/5000, score:2422323.5040000053, e: 0.67 , Win%: 56.2049062049062 %
episode: 799/5000, score:-36789945.17600046, e: 0.67 , Win%: 43.880926130099226 %
episode: 800/5000, score:1729324.6330000109, e: 0.67 , Win%: 53.99853264856933 %
episode: 801/5000, score:-36886207.83500046, e: 0.67 , Win%: 43.95236323036844 %
```

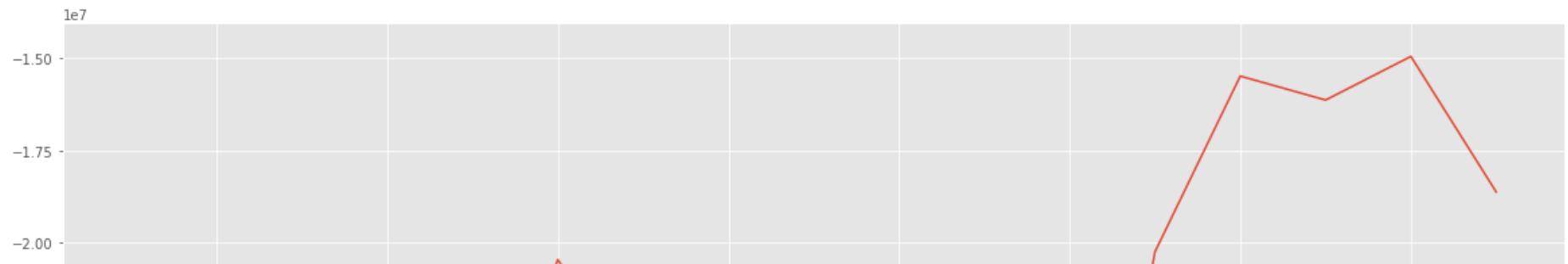
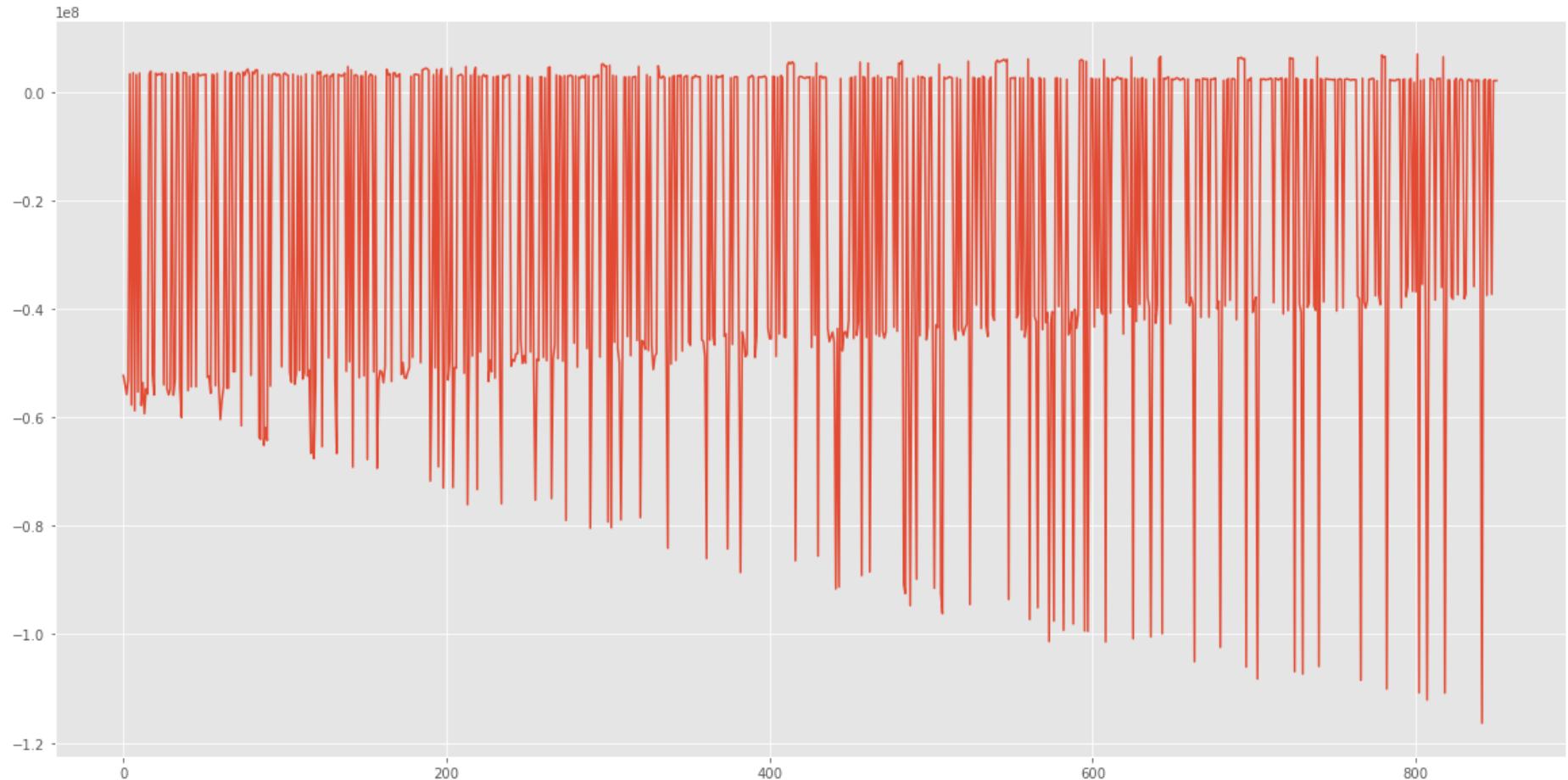
1e8

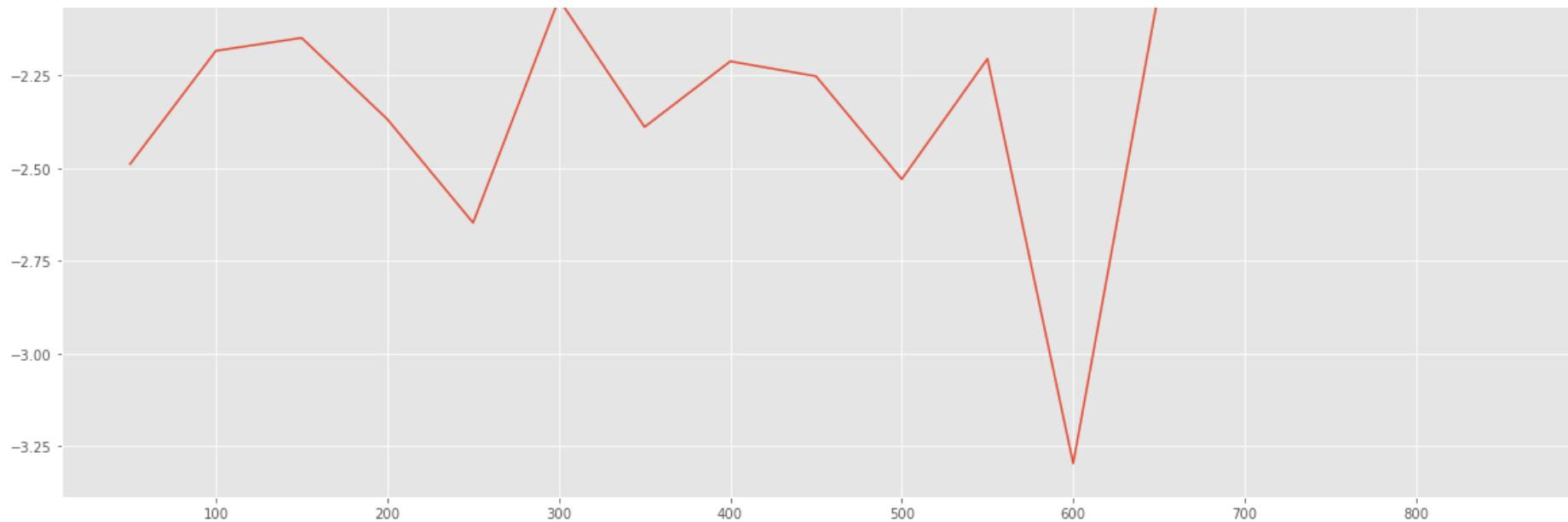
 $1e7$ 



```
episode: 802/5000, score:6929478.4359999355, e: 0.67 , Win%: 56.71641791044776 %
episode: 803/5000, score:-110799425.66000345, e: 0.67 , Win%: 44.01520726024037 %
episode: 804/5000, score:2119067.965000009, e: 0.67 , Win%: 56.105990783410135 %
episode: 805/5000, score:-35498399.84600033, e: 0.67 , Win%: 43.87245485977718 %
episode: 806/5000, score:2236806.8470000015, e: 0.67 , Win%: 56.14290922347794 %
episode: 807/5000, score:-38429341.87900048, e: 0.67 , Win%: 44.52528192069843 %
episode: 808/5000, score:-112091790.71099643, e: 0.67 , Win%: 40.70364036159296 %
episode: 809/5000, score:-37332650.532000385, e: 0.67 , Win%: 44.2819647544057 %
episode: 810/5000, score:2483661.213000007, e: 0.67 , Win%: 56.93456614509246 %
episode: 811/5000, score:2300381.7800000235, e: 0.67 , Win%: 56.64970930232558 %
episode: 812/5000, score:2128928.211, e: 0.67 , Win%: 55.22548317823908 %
episode: 813/5000, score:-38379269.941999875, e: 0.67 , Win%: 42.836149889786924 %
episode: 814/5000, score:2350508.969999996, e: 0.67 , Win%: 55.32976827094474 %
episode: 815/5000, score:2426153.8900000066, e: 0.67 , Win%: 57.89865871833085 %
episode: 816/5000, score:2447027.646999999, e: 0.67 , Win%: 56.073752711496745 %
episode: 817/5000, score:-36047567.92399971, e: 0.66 , Win%: 43.771298750473306 %
episode: 818/5000, score:6431549.925999892, e: 0.66 , Win%: 55.30503978779841 %
episode: 819/5000, score:-110817506.61500296, e: 0.66 , Win%: 44.68059266456157 %
episode: 820/5000, score:-36556860.31300053, e: 0.66 , Win%: 44.875139768915396 %
episode: 821/5000, score:2165529.668999998, e: 0.66 , Win%: 56.32440476190476 %
episode: 822/5000, score:2147217.1859999727, e: 0.66 , Win%: 54.98294808639636 %
episode: 823/5000, score:-37679081.92299991, e: 0.66 , Win%: 43.85506163615988 %
episode: 824/5000, score:-38226539.36500034, e: 0.66 , Win%: 42.36214605067064 %
episode: 825/5000, score:2002751.6990000224, e: 0.66 , Win%: 54.116793616249545 %
episode: 826/5000, score:2453724.4940000186, e: 0.66 , Win%: 57.29089563286455 %
episode: 827/5000, score:-37405107.82200034, e: 0.66 , Win%: 43.581206067332595 %
episode: 828/5000, score:2027273.1670000043, e: 0.66 , Win%: 56.10926541159099 %
episode: 829/5000, score:2367580.922000023, e: 0.66 , Win%: 57.08456973293769 %
episode: 830/5000, score:2041683.6210000105, e: 0.66 , Win%: 54.80769230769231 %
episode: 831/5000, score:-38135142.03800054, e: 0.66 , Win%: 44.0116490717146 %
episode: 832/5000, score:-37275421.25100041, e: 0.66 , Win%: 44.06130268199234 %
episode: 833/5000, score:2038386.0630000061, e: 0.66 , Win%: 54.750462107208875 %
episode: 834/5000, score:2309863.1700000074, e: 0.66 , Win%: 56.49569449644328 %
episode: 835/5000, score:1969475.4080000094, e: 0.66 , Win%: 55.82329317269076 %
episode: 836/5000, score:2162406.331000002, e: 0.66 , Win%: 54.96046010064702 %
episode: 837/5000, score:-35924497.35400046, e: 0.66 , Win%: 43.531202435312025 %
episode: 838/5000, score:2212622.559999997, e: 0.66 , Win%: 56.38175546186278 %
episode: 839/5000, score:2004288.1730000111, e: 0.66 , Win%: 54.7364541098415 %
episode: 840/5000, score:2163045.699000007, e: 0.66 , Win%: 56.2043795620438 %
episode: 841/5000, score:-36133333.80299969, e: 0.66 , Win%: 44.1198224852071 %
episode: 842/5000, score:-116386234.9469959, e: 0.66 , Win%: 44.4604489256992 %
episode: 843/5000, score:2041621.2299999956, e: 0.66 , Win%: 55.12630014858841 %
```

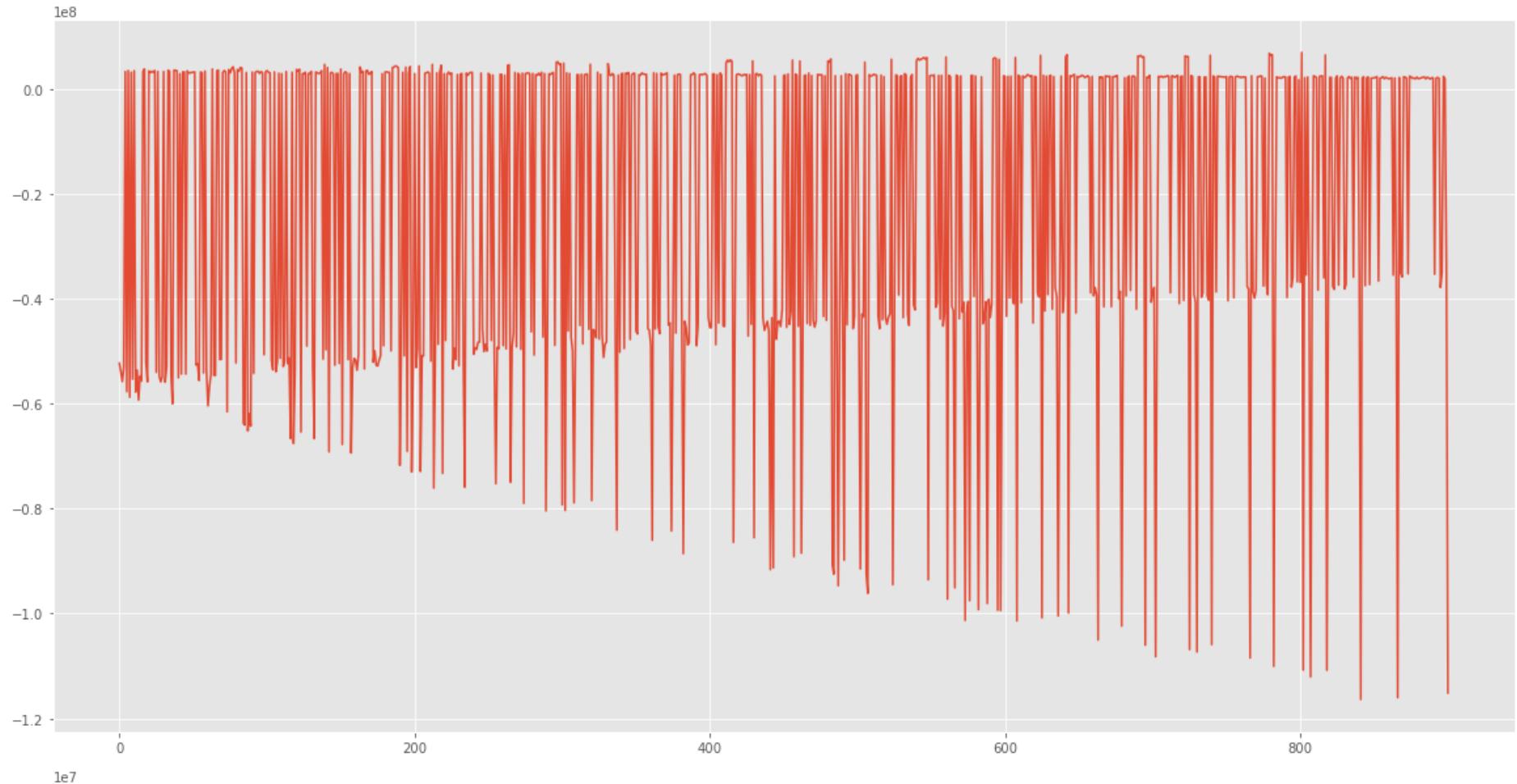
```
episode: 844/5000, score:2281645.9790000212, e: 0.66 , Win%: 57.47470962907456 %
episode: 845/5000, score:-37526131.34100042, e: 0.66 , Win%: 45.37528430629265 %
episode: 846/5000, score:2066445.5330000264, e: 0.66 , Win%: 55.18394648829432 %
episode: 847/5000, score:2245706.1170000304, e: 0.66 , Win%: 56.815578465063 %
episode: 848/5000, score:-37318436.50699974, e: 0.65 , Win%: 42.74495138369484 %
episode: 849/5000, score:2035187.344000004, e: 0.65 , Win%: 56.29713423831071 %
episode: 850/5000, score:2052794.4170000015, e: 0.65 , Win%: 55.630126771066365 %
episode: 851/5000, score:2062629.2030000014, e: 0.65 , Win%: 57.45173745173745 %
```

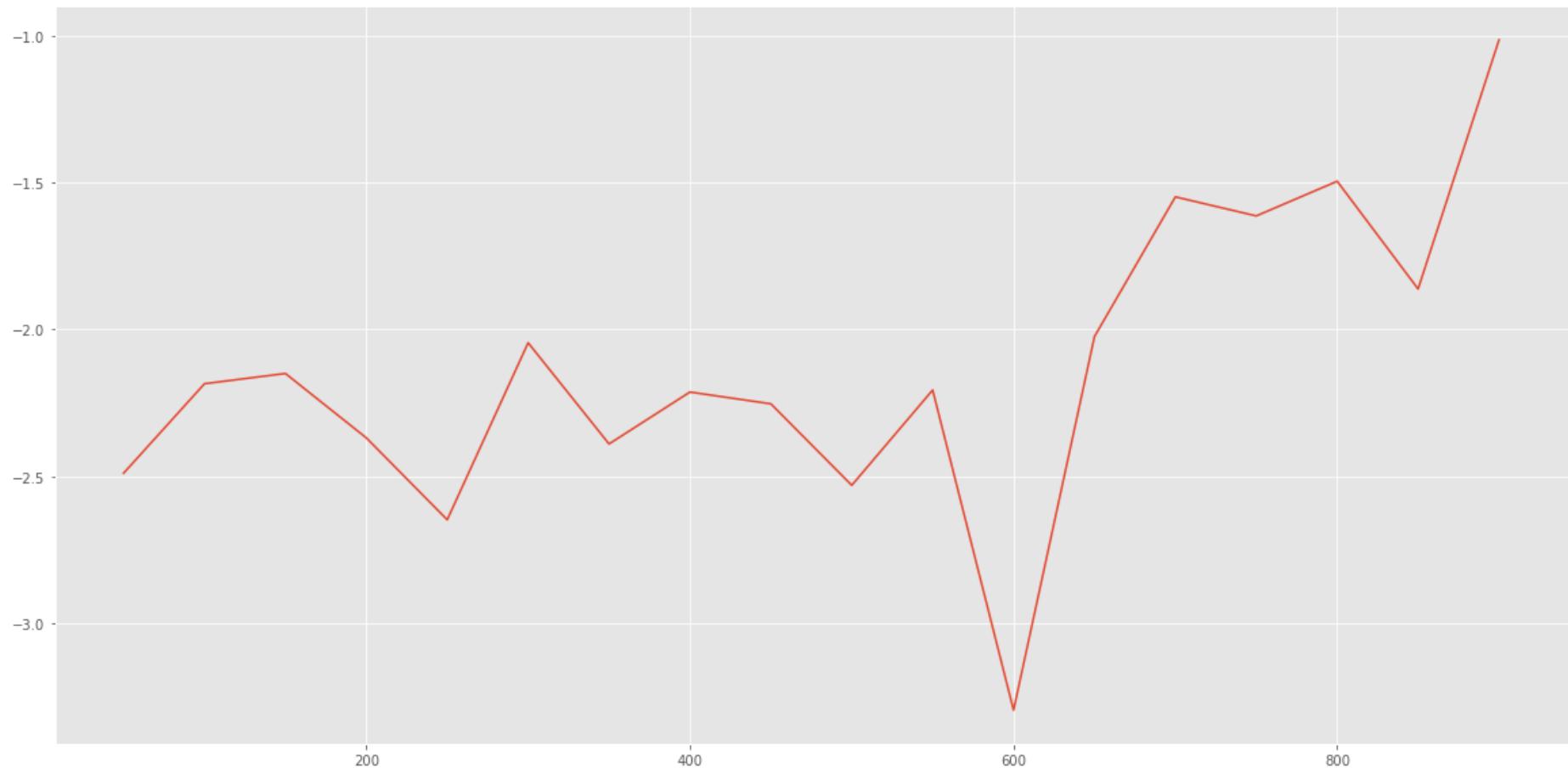




episode: 852/5000, score:2153754.4000000386, e: 0.65 , Win%: 54.843517138599104 %
episode: 853/5000, score:2306311.3990000077, e: 0.65 , Win%: 57.04429920116195 %
episode: 854/5000, score:-36645792.64900051, e: 0.65 , Win%: 43.73831775700935 %
episode: 855/5000, score:2017324.0300000138, e: 0.65 , Win%: 55.86128910667169 %
episode: 856/5000, score:2089479.2440000058, e: 0.65 , Win%: 55.58480631816472 %
episode: 857/5000, score:2288332.6390000107, e: 0.65 , Win%: 56.48393194706994 %
episode: 858/5000, score:1909883.1790000068, e: 0.65 , Win%: 54.59726443768997 %
episode: 859/5000, score:2161930.37400001, e: 0.65 , Win%: 56.9511740588893 %
episode: 860/5000, score:2044171.2329999972, e: 0.65 , Win%: 56.59735349716446 %
episode: 861/5000, score:1899926.8080000074, e: 0.65 , Win%: 54.285714285714285 %
episode: 862/5000, score:2001329.3600000083, e: 0.65 , Win%: 55.96078431372549 %
episode: 863/5000, score:2088860.5520000018, e: 0.65 , Win%: 55.95013222516056 %
episode: 864/5000, score:-35511385.1379997, e: 0.65 , Win%: 44.053030303030305 %
episode: 865/5000, score:2054514.8780000024, e: 0.65 , Win%: 54.8494983277592 %
episode: 866/5000, score:-35813077.44500035, e: 0.65 , Win%: 44.37619961612284 %
episode: 867/5000, score:-116038020.36399567, e: 0.65 , Win%: 44.3487494100991 %
episode: 868/5000, score:2155712.077999978, e: 0.65 , Win%: 55.82433941198362 %
episode: 869/5000, score:-35122534.52900038, e: 0.65 , Win%: 45.33282325937261 %
episode: 870/5000, score:-35849989.98099966, e: 0.65 , Win%: 43.61418223408311 %
episode: 871/5000, score:2252708.9270000216, e: 0.65 , Win%: 55.57634730538922 %
episode: 872/5000, score:2230361.9260000107, e: 0.65 , Win%: 55.98307041169681 %
episode: 873/5000, score:1997349.408000009, e: 0.65 , Win%: 56.086631814787154 %
episode: 874/5000, score:-35263637.05800024, e: 0.65 , Win%: 44.60952380952381 %
episode: 875/5000, score:2398006.857, e: 0.65 , Win%: 55.59687616214206 %
episode: 876/5000, score:2256192.663000006, e: 0.65 , Win%: 55.943007124109485 %
episode: 877/5000, score:1983825.575000025, e: 0.65 , Win%: 55.22501906941266 %
episode: 878/5000, score:2067260.8820000016, e: 0.64 , Win%: 55.61106840891622 %
episode: 879/5000, score:1908088.1399999964, e: 0.64 , Win%: 55.960516324981015 %
episode: 880/5000, score:2205073.138999999, e: 0.64 , Win%: 56.47414118535296 %
episode: 881/5000, score:1910679.1830000158, e: 0.64 , Win%: 55.14705882352941 %
episode: 882/5000, score:1985330.1060000034, e: 0.64 , Win%: 55.589469668065625 %

```
episode: 883/5000, score:2107905.620000005, e: 0.64 , Win%: 54.63957055214724 %
episode: 884/5000, score:2151931.3549999977, e: 0.64 , Win%: 56.712433257055686 %
episode: 885/5000, score:2238242.047000001, e: 0.64 , Win%: 55.90611773759138 %
episode: 886/5000, score:1894025.8370000012, e: 0.64 , Win%: 54.197292069632496 %
episode: 887/5000, score:2193145.5920000044, e: 0.64 , Win%: 56.15744349181605 %
episode: 888/5000, score:2053888.798000024, e: 0.64 , Win%: 55.32862978091348 %
episode: 889/5000, score:1867894.2789999992, e: 0.64 , Win%: 55.19630484988453 %
episode: 890/5000, score:2096191.0890000165, e: 0.64 , Win%: 55.03875968992248 %
episode: 891/5000, score:2069326.7569999984, e: 0.64 , Win%: 54.94377665761923 %
episode: 892/5000, score:-35338424.27500029, e: 0.64 , Win%: 43.28885400313972 %
episode: 893/5000, score:2008843.3509999984, e: 0.64 , Win%: 55.14532600157109 %
episode: 894/5000, score:2152322.007000001, e: 0.64 , Win%: 57.434052757793765 %
episode: 895/5000, score:1985479.1350000068, e: 0.64 , Win%: 56.41993957703927 %
episode: 896/5000, score:-37858438.43900036, e: 0.64 , Win%: 42.98711144806672 %
episode: 897/5000, score:-35040504.45199974, e: 0.64 , Win%: 44.2495126705653 %
episode: 898/5000, score:2348816.120000003, e: 0.64 , Win%: 56.655025223127666 %
episode: 899/5000, score:1908342.6040000168, e: 0.64 , Win%: 54.954268292682926 %
episode: 900/5000, score:-33042130.701999687, e: 0.64 , Win%: 45.83014537107881 %
episode: 901/5000, score:-115136327.6179959, e: 0.64 , Win%: 44.20514040932889 %
```





```
episode: 902/5000, score:2176216.5860000057, e: 0.64 , Win%: 56.624179219775975 %
episode: 903/5000, score:2185173.1200000015, e: 0.64 , Win%: 55.82124656997256 %
episode: 904/5000, score:-35096100.95900025, e: 0.64 , Win%: 44.86547934823797 %
episode: 905/5000, score:-2005905.0010000012, e: 0.64 , Win%: 55.01021111511001 %
```

```
# print('hi', end = '\r')
```

```
episode: 908/5000, score:-34884657.20900037, e: 0.64 , Win%: 44.67005076142132 %
episode: 909/5000, score:-33860568.159000374, e: 0.64 , Win%: 43.423560808234846 %
episode: 910/5000, score:6779669.105999868, e: 0.63 , Win%: 55.885078776645045 %
episode: 911/5000, score:6884153.176000045, e: 0.63 , Win%: 56.191588785046726 %
episode: 912/5000, score:6890459.297999916, e: 0.63 , Win%: 55.944886566100486 %
episode: 913/5000, score:-118829756.61900377, e: 0.63 , Win%: 44.08177488674643 %
episode: 914/5000, score:2013900.294000042, e: 0.63 , Win%: 56.58855167114867 %
episode: 915/5000, score:1953748.738000036, e: 0.63 , Win%: 55.45234248788368 %
episode: 916/5000, score:1899996.177999994, e: 0.63 , Win%: 55.08474576271186 %
episode: 917/5000, score:2063228.968000009, e: 0.63 , Win%: 56.34829305715382 %
episode: 918/5000, score:2152790.111999999, e: 0.63 , Win%: 56.54531371030209 %
episode: 919/5000, score:-32927297.244999718, e: 0.63 , Win%: 45.07474128018398 %
episode: 920/5000, score:2013182.161000001, e: 0.63 , Win%: 54.651615414558194 %
episode: 921/5000, score:1679189.6450000047, e: 0.63 , Win%: 54.29793854531311 %
episode: 922/5000, score:2256643.181000004, e: 0.63 , Win%: 56.23418865196964 %
```

```
episode: 923/5000, score:1834524.91900007, e: 0.63 , Win%: 54.04383975812547 %
episode: 924/5000, score:1912150.1080000144, e: 0.63 , Win%: 54.940407535563246 %
episode: 925/5000, score:2336868.2110000243, e: 0.63 , Win%: 56.867924528301884 %
episode: 926/5000, score:1838125.1810000022, e: 0.63 , Win%: 55.172413793103445 %
episode: 927/5000, score:2038831.1680000185, e: 0.63 , Win%: 55.34542647626399 %
episode: 928/5000, score:2095719.6010000056, e: 0.63 , Win%: 55.61326408310028 %
episode: 929/5000, score:-34506411.23900034, e: 0.63 , Win%: 43.950039032006245 %
episode: 930/5000, score:2024435.9910000244, e: 0.63 , Win%: 55.34395647104547 %
episode: 931/5000, score:2214837.0260000024, e: 0.63 , Win%: 55.66521910777734 %
episode: 932/5000, score:2247329.805000006, e: 0.63 , Win%: 55.95653861078774 %
episode: 933/5000, score:1913152.4130000046, e: 0.63 , Win%: 55.675459632294164 %
```

