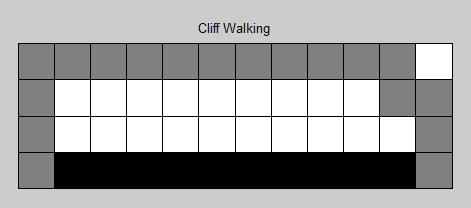
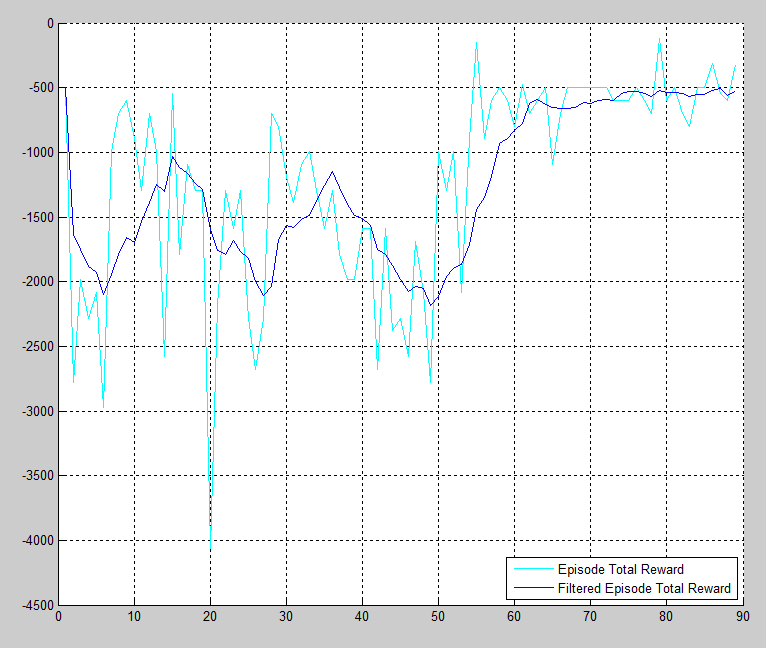
## Our Monte-Carlo Solution

## 



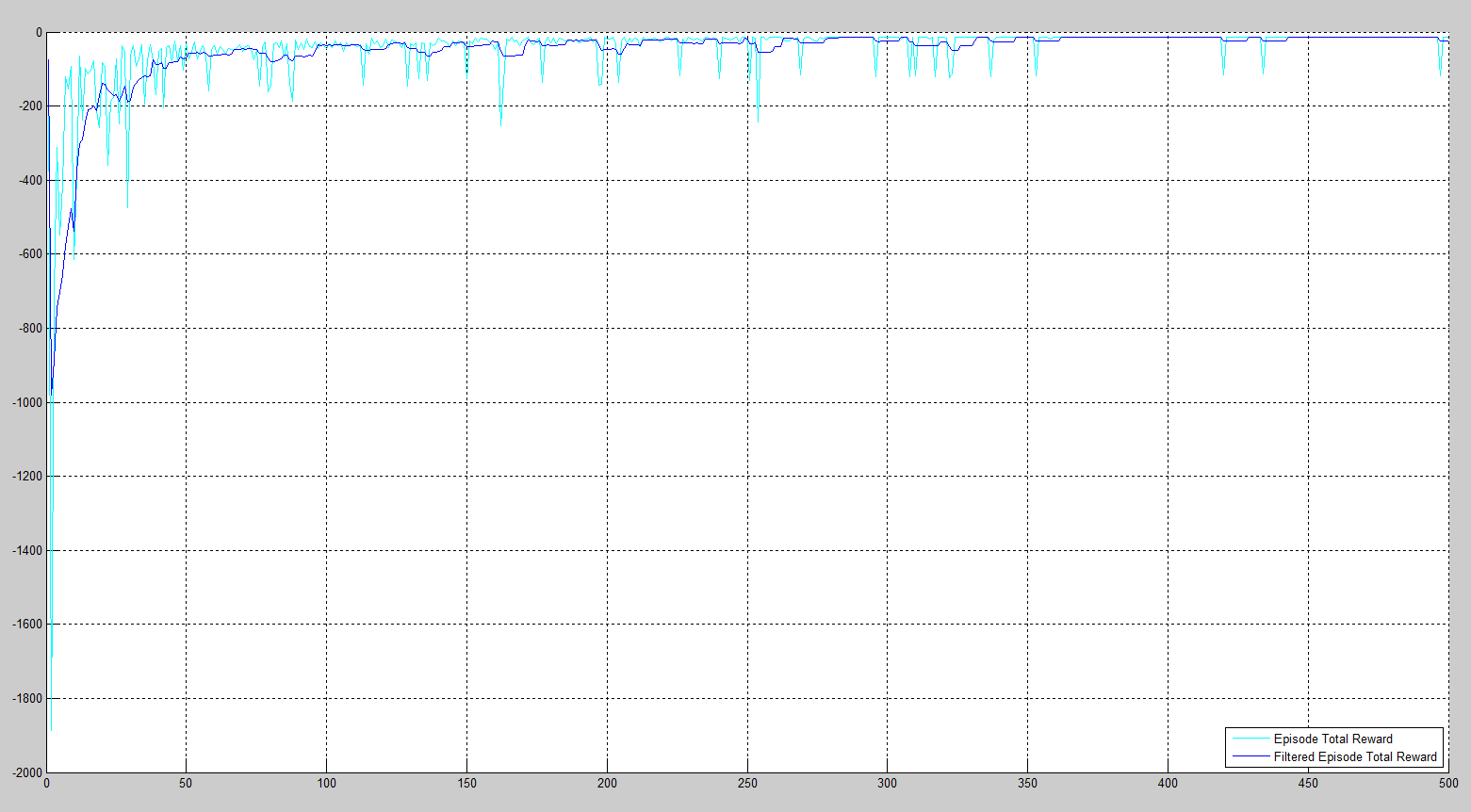
## Monte-Carlo Solution

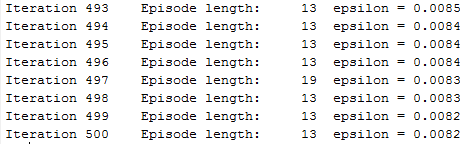


## Problem 2 b)

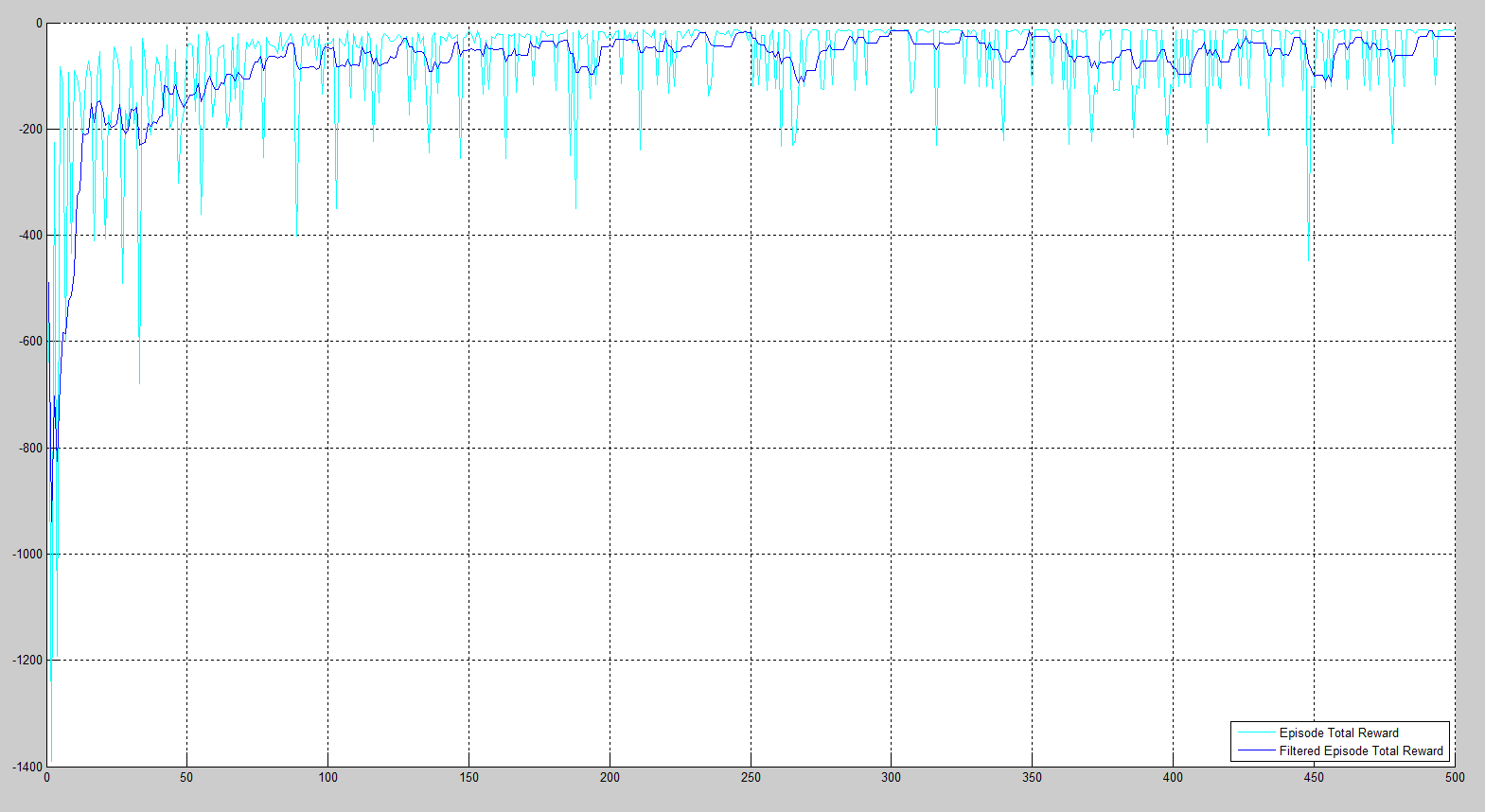
Q-Learning:

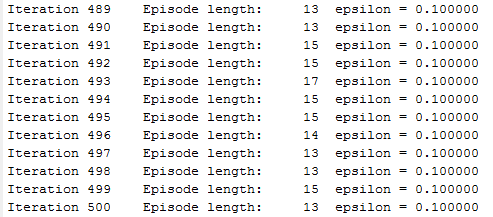
k-epsilon: 0.995:





K\_epsilon = 1:





## Problem 2 a)

Discrete system model (own solution):

Discrete system model for action a = -1.0000

Discrete system model for action a = -0.5000

Discrete system model for action a = 0.0000

Discrete system model for action a = 0.5000

Discrete system model for action a = 1.0000

Elapsed time is 201.525202 seconds.

Attempted to access U(:,6); index out of bounds because size(U)=[1,5].

Error in MDP\_Design>@(A)U(:,A) (line 111)

Controller.actionD2C = @(A) U(:,A);

Error in Compute\_Input (line 30)

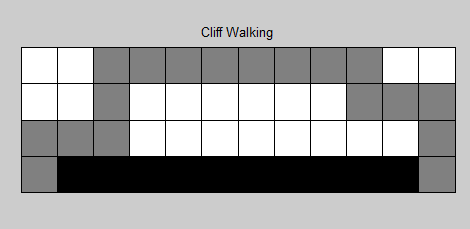
Error in Mountain\_Car\_Simulator (line 35)

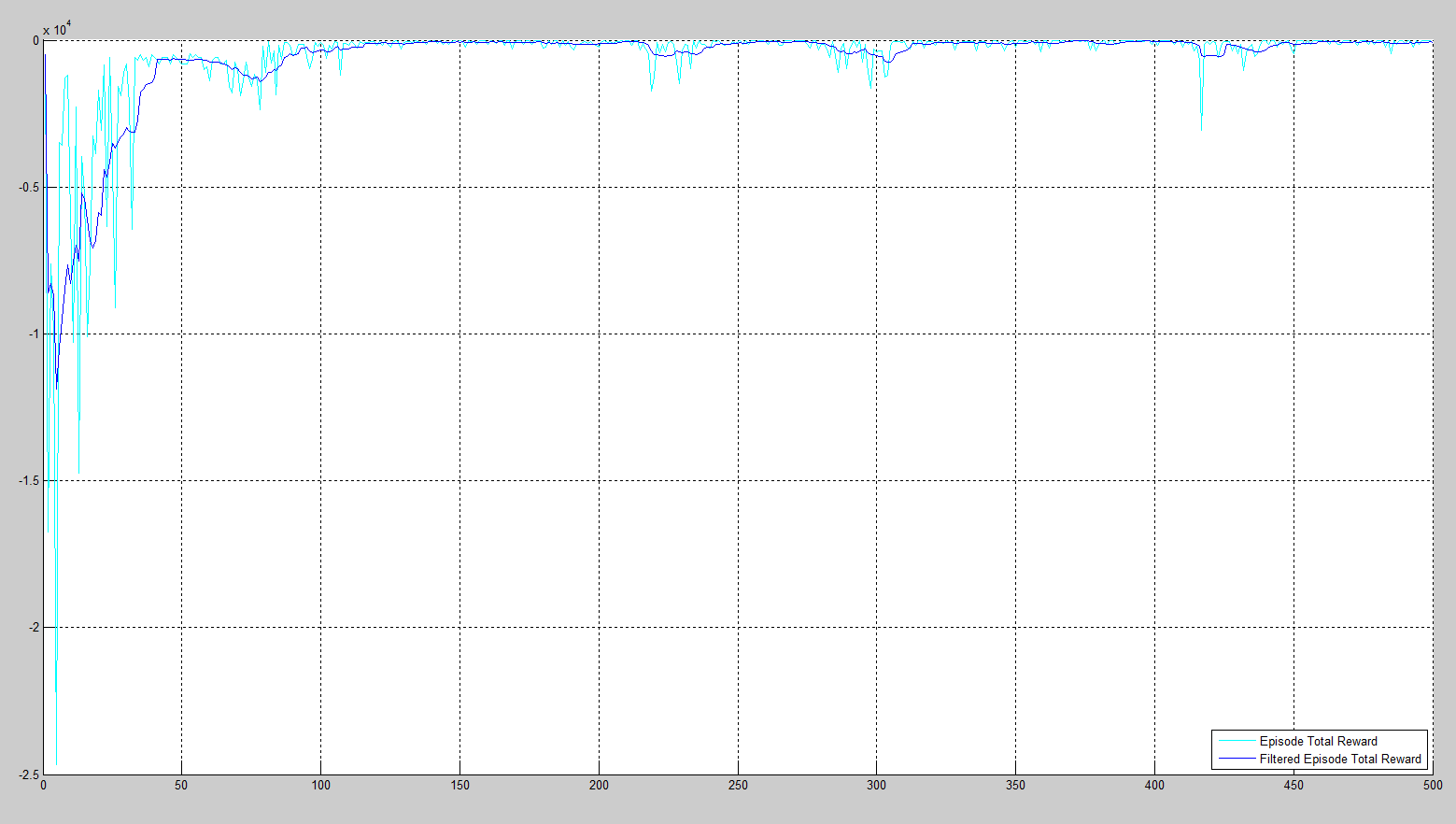
Error in main\_ex2a (line 66)

sim\_out\_mdp = Mountain\_Car\_Simulator(Task,Controller);

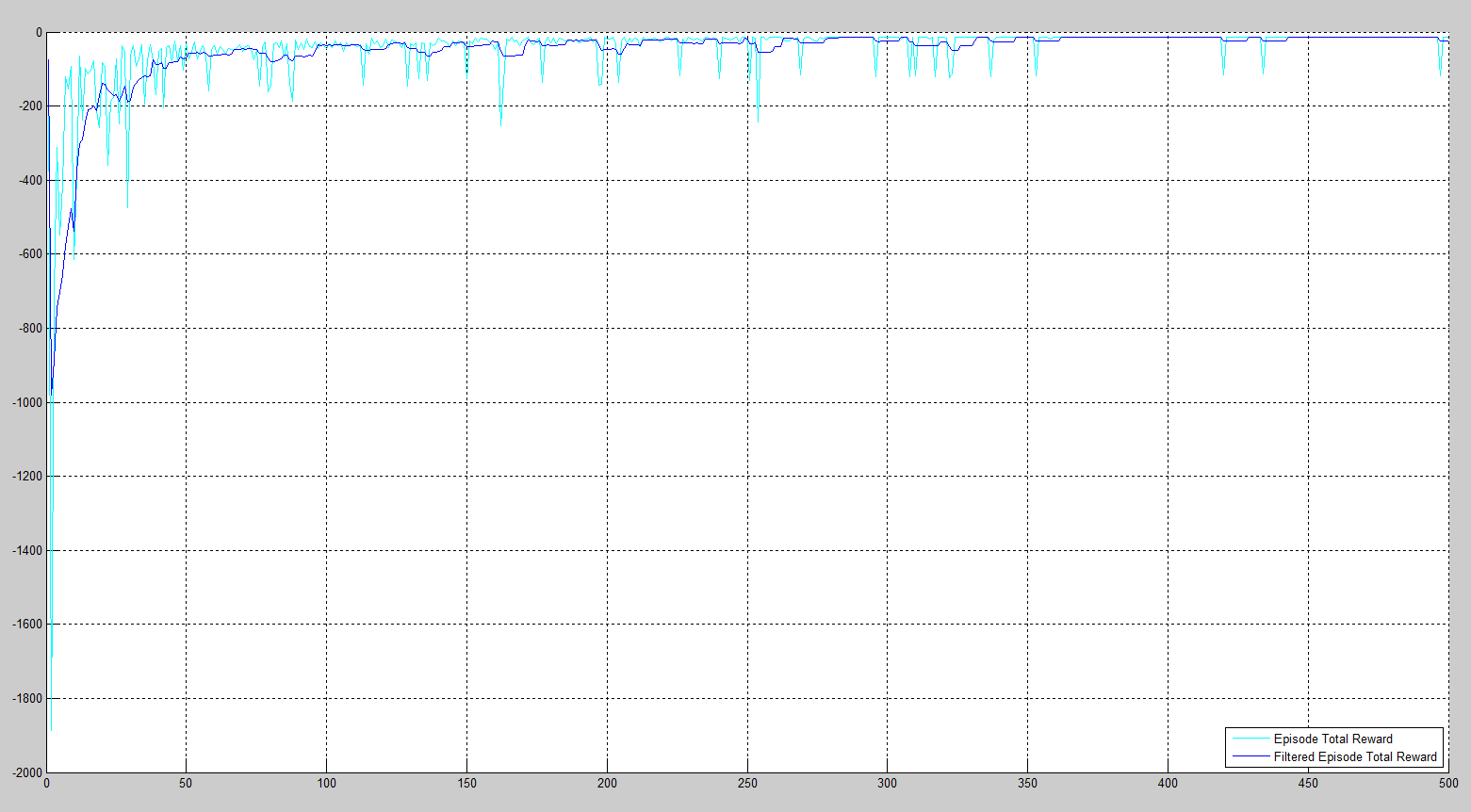
Monte-Carlo:

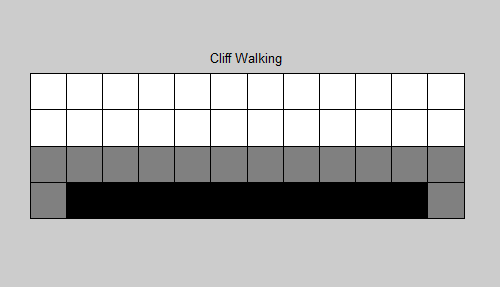
Solution:

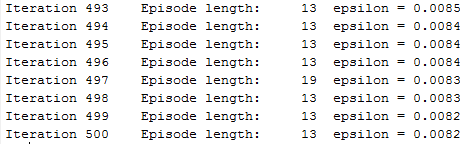




Q-Learning:







Solution:

