```
1 s = s_0 // Or draw an s randomly from S
2 \mathcal{D} = \{ \}
    initialize neural-network representation of Q
     while True:
           \mathcal{D}_{\text{new}} = experience from executing \epsilon-greedy policy based on Q for m steps
           \mathcal{D} = \mathcal{D} \cup \mathcal{D}_{new} represented as (s, a, r, s') tuples
           D_{\text{sup}} = \{(x^{(i)}, y^{(i)})\} where x^{(i)} = (s, a) and y^{(i)} = r + \gamma \max_{\alpha' \in \mathcal{A}} Q(s', \alpha')
              for each tuple (s, a, r, s')^{(i)} \in \mathcal{D}
           re-initialize neural-network representation of Q
10
           Q = supervised_NN_regression(D_{sup})
```

FITTED-O-LEARNING(A, s_0 , γ , α , ε , m)