```
Input: Set of slot machines S, exploration parameter \epsilon
Output: Action a_t
Initialization: R(s) \leftarrow 0 for all s \in S;
Initialization: N(s) \leftarrow 0 for all s \in S;
for t = 1 to T do
   if random(0,1) > \epsilon then
       Choose action a_t = \arg \max_{s \in S} R(s);
   else
       Choose a random action a_t \sim Uniform(A);
    end
    Perform action a_t on the chosen slot machine;
```

end

Update estimated reward value: $R(a_t) \leftarrow \frac{R(a_t) \cdot (N(a_t) - 1) + r_t}{N(a_t)}$;

Observe reward r_t obtained from the chosen action;

Update action count: $N(a_t) \leftarrow N(a_t) + 1$;

Algorithm 1: Epsilon-Greedy Algorithm