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(1)  $X = \frac{1}{2} \left( \log_{10} b, c, d, \log_{10} d \right) \left| \log_{10} f, A, B, C, D, E, F \right|$ , be  $f_0, 1$ ,  $c \in \{0, 1\}$ ,  $d \in \{0, 1\}$ , d

b)

| 1/30 if

| 2/30 if

| 0,1 if

| 5,5/30 if

| 4/30 if

| 4/30 if

| 7/30 if

if loc= R and load=1 and a= D 1/30 if (lot=B and load=0 and b=1 and a=c) or (local and load= 0 and e=1 and a=c) or (loc=D and land=0 eved d=1 and ar=c) 2/30 if (loc=E and a=MR) or (loc=F and a=MD) 0,1 if ( Roc=R and a=MR) or (loc=A and a=ML) 5,5/30 if (luc=A and a=MD) or (lac=e and a=ML) or (loc= c and a=MR) or (loc= E and a=ML) 4/30 if (loc = A and a= MR) or (loc = B and a= ML) if (loc= A and n= NU) or (loc= D and a= ML) or (loc = D and a=MR) or (loc = F and a=MU) 8/30 if (loc=B and a=MR) or (loc=F and a=ML) else

C) The driver only observes if there is gardage or not if he is in the location. strelf. This means that at time step t + 1, because the driver is at location D, there is only two passible beliefs and 1. O if the driver makes the observed that there is no garbage and I if he makes the observation that there is