Identify the following arguments properly. If the argument is valid, mark it with a V. If it is invalid mark it with an I.

1. Peter went to the bank to make the deposit.  
   Peter successfully made the deposit.  
   Thus, nothing prevented Peter from making the deposit.  
   VALID (‘the deposit’ refers in both cases to a single deposit. If something prevented it, by definition of ‘prevent’ it would not have successfully been made.)

2. Pollution in Russia has finally been reduced.  
   Thus, at some point in the past, pollution in Russia was higher than it is now.  
   VALID

3. Tajikistan is a theocracy, like many other nations.  
   Democracies are never theocracies.  
   Thus, Tajikistan is not a democracy.  
   VALID

4. Torpedo fish by and large inhabit estuaries.  
   No fish that live in estuaries can breathe and survive for long on land.  
   Thus, torpedo fish are unable to survive on land for long.  
   INVALID (‘by and large’ means the same as ‘mostly’ or ‘as a good rule of thumb’. It doesn’t imply ‘always’.)

5. Every vehicle that has an engine requires oil.  
   Raymond’s vehicle requires oil.  
   Thus, Raymond’s vehicle has an engine.  
   INVALID

6. Orange cobras are present only in the Indian subcontinent.  
   Nothing that is in the Indian subcontinent is poisonous.  
   If something is poisonous, it shouldn’t be kept as a pet.  
   Thus, one shouldn’t keep orange cobras as a pet.  
   INVALID

7. The presence of mold in the kitchen has not yet been detected.  
   Thus, Chef Barkley did not discover mold in the kitchen.  
   VALID (A discovery of mold count as a detection of mold.)

8. Umbrellas are mechanical devices that have some metal parts at the time they are manufactured.  
   Anything with metal parts is susceptible to a lightning strike.  
   The umbrella Jason owns was struck by lightning.  
   Thus, the umbrella Jason owns has not had its metal parts stripped out of it.  
   INVALID
9. Laura has three children, while her sister Rose has none.
   Rose is Laura’s only sister.
   Laura has no brother.
   Thus, Laura’s children have no (first) cousins.
   INVALID (They could have cousins on their father’s side.)

10. A person can only receive an award by doing some public service.
    The mayor presented Rex with an award for public service.
    Thus, Rex did some public service.
    VALID (X’s being presented with an award implies that X received an award. It does not require that X literally receive a statue or certificate. It is an abstract reception.)