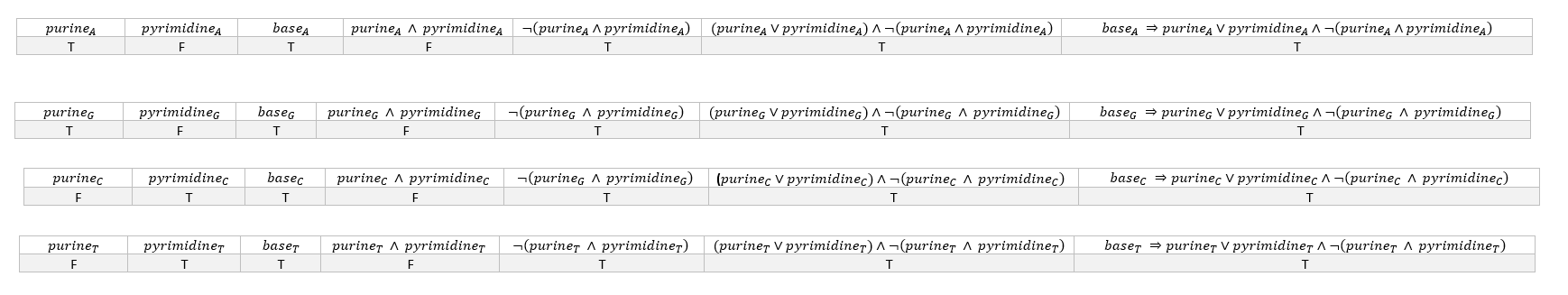
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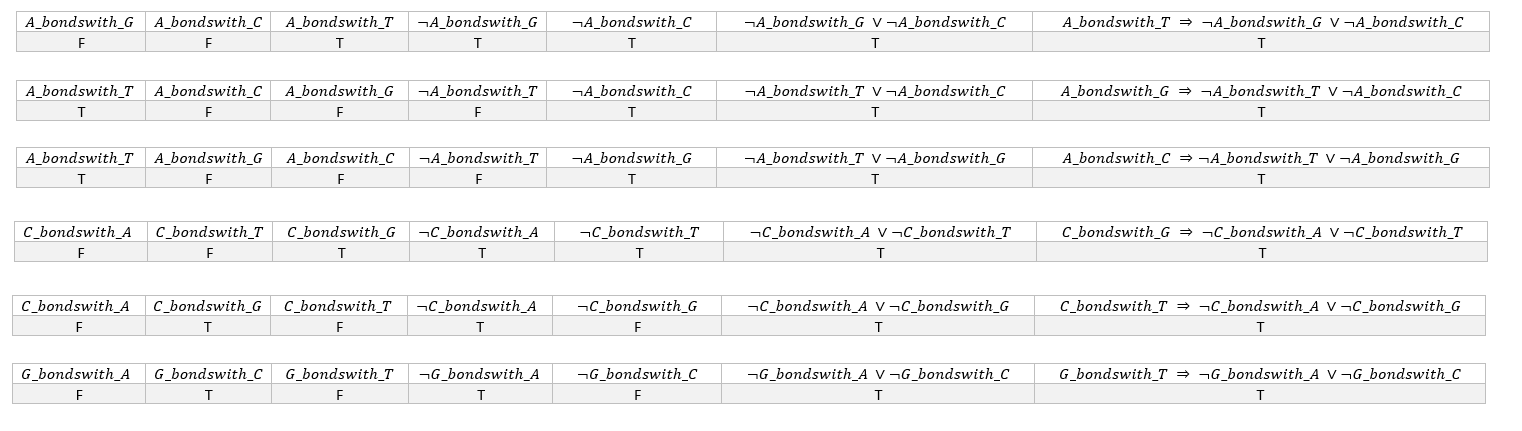
Hasnain Cheena  
190411106  
hche737

**Question 1: Propositional Logic**

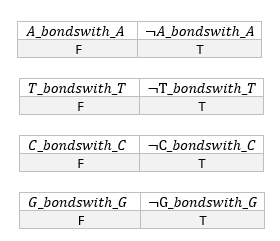
1. If A is a base, it is either a purine or a pyrimidine, but not both, similarly for T, C and G.



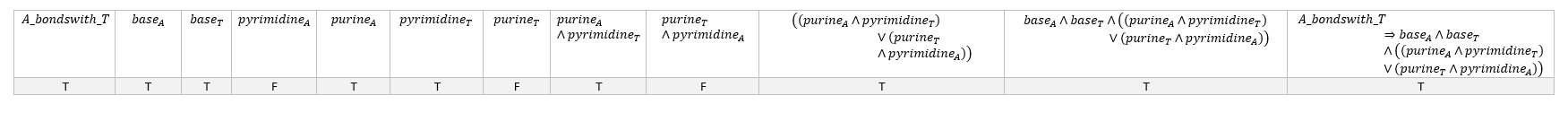
1. If A bonds with C, it does not bond with T or G. Similarly, for the other bases.

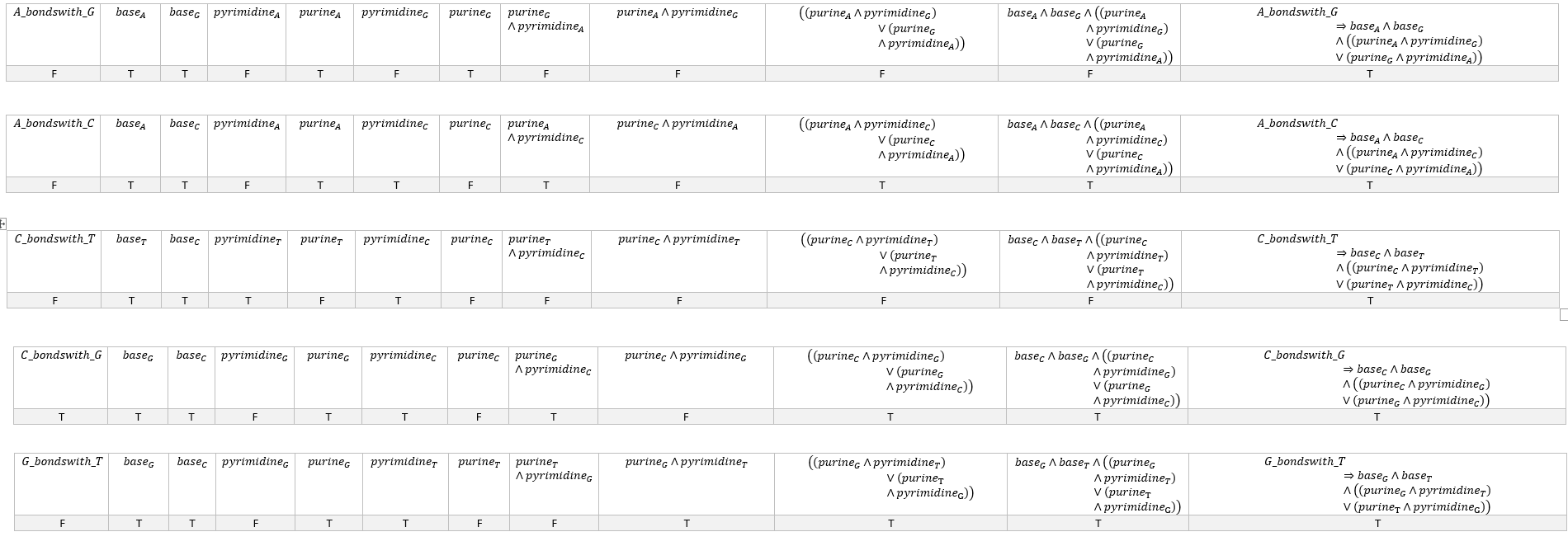


1. A does not bond with A; similarly C, T or G do not bond with themselves.

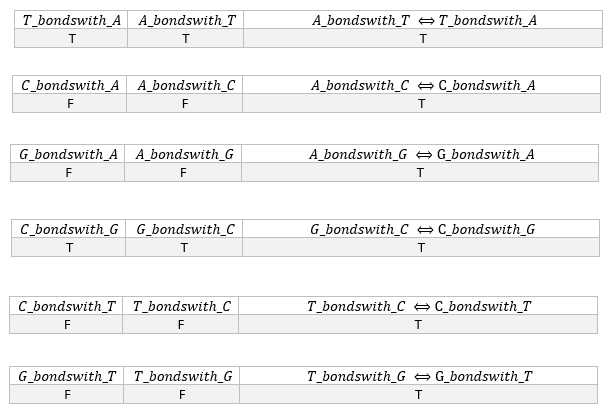


1. If A bonds with T, it is the case that A is a base and that T is a base, and it is either the case that A is a purine and T a pyrimidine, or vice versa. Similarly with other pairs of bases.





1. If A bonds with T, then T bonds with A, and similarly for all other pairs.



**Question 2 follows on the next page.**

**Question 2: Predicate Logic**