Map Manipulation

or

The Roundup

Your job is to lasso the strays...

- 1. Map all prime implicants. A prime implicant is a product term with the maximum number of 2ⁿ adjacent minterms
- 2. Identify the "stray doggies." A stray doggie is a minterm mapped by only one prime implicant.
- Identify the "herd" minterms not mapped by an essential prime implicant.
- 3. Write "essential" prime implicants. An essential prime implicant maps a stray doggie.
- 5. Map prime implicants covering remaining minterms
- 6. Write function for each mapping.

Selection Rule: Minimize the overlap among prime implicants as much as possible. Make sure that each prime implicant selected includes at least one minterm not included in any other prime implicant selected.