This project asks you to use the Quine-McCluskey method to find a minimal expansion of a Boolean expression.

Find a minimal expansion of each of the following sum-of-products Boolean expressions by using the Quine-McCluskey method.

- (a) $\overline{x}yz + \overline{x}\overline{y}z$
- (b) $xyz + xy\overline{z} + \overline{x}yz + \overline{x}y\overline{z}$
- (c) $x y \overline{z} + x \overline{y} z + x \overline{y} \overline{z} + \overline{x} y z + \overline{x} \overline{y} z$
- (d) $xyz + x\overline{y}z + x\overline{y}\overline{z} + \overline{x}yz + \overline{x}y\overline{z} + \overline{x}\overline{y}\overline{z}$