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Task 1.

Exercise 1 *We want to encode the following directions*

$\{\text{North}, \text{NorthEast}, \text{East}, \text{SouthEast}, \text{South}, \text{SouthWest}, \text{West}, \text{NorthWest}\}$

Give a code of your own desing using codewords of length 6 and compute its minimum distance.