

# Future of Square Dancing Programming and Problem Solving

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# Timeline

- ▶ Week1 - spiral shape, dance all pairs, prove it dances with all pairs
- ▶ week2 - small and medium strategies, dancemove and dance dance move
- ▶ Week3 - hexagonal packing
- ▶ Week4 - large d using tiling
- ▶ Final deliverable - group6 strat for small, dancemove for medium, hexagonal for 1840, large d strategy

# Introduction

# Strategies used

Different strats for different D values

Finding All soulmates

Dance Dance Move

Packing - Hexagonal Vs Square

Friend Estimation

Rotate Dancers ( $i$  to  $i+1$ )

Large d

Success Mantra

# Parameter Tuning

D1, d2, d3

Score percentage