

# Warm-Up: Cosa Nostra

Prepared by Mark on June 9, 2026

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**Problem 1:**

There are 36 gangsters in a certain district of Chicago. Some pairs of gangsters have feuds.

- Each gangster is part of at least one outfit, and no two outfits share the same members.
- If two gangsters are both in one outfit, there is no feud between them.
- A gangster that is not in a certain outfit must have a feud with at least one of its members.

What is the maximum number of outfits that can exist in this district?