## Exercise: Lossless Image Compression Challenge (Part II)

## Improve your codec for lossless coding of 8-bit color images

Try different things discussed in lectures and exercises

## The following might be worth trying

- Prediction
  - Simple prediction using left sample
  - Fixed non-linear predictor like LOCO or Paeth predictor
  - Line- or block-adaptive selection of predictor (e.g., between horizontal, vertical, ...)
- Entropy Coding of Prediction Errors
  - Simple Rice codes (may be with adaptive Rice parameter)
  - Arithmetic coding with adaptive marginal pmf
  - Arithmetic coding with conditional pmf (very simple conditions)

## Measure and provide the compressed file sizes for the Kodak test set!