Homework Assignment III

1. **Computer Assignment** (100 points). Implement a closed-loop DPCM video coder with uniform scalar quantizer. Use the Huffman coder to encode the quantized predicted frame difference. You should also provide a lossless mode where there is no quantization at all.

   Test your simple video coder on the *glasgow* sequence. How much compression can you achieve losslessly? Report the PSNR’s at several lossy compression ratios.

Due date: **March 8** in class