Uncompress Inverted Index

- Decoding of encoded integers
  - Unary decoding: count 1's until seeing a zero
  - γ-decoding
    - first decode the unary part; let value be k+1
    - read k more bits decode them as binary code; let value be r
    - the value of the encoded number is $\mathbf{2^k+r}$
- Decode doc IDs encoded using d-gap
  - Let the encoded ID list be x1, x2, x3, ….
  - Decode x1 to obtain doc ID1; then decode x2 and add the recovered value to the doc ID1 just obtained
  - Repeatedly decode x3, x4, …., and the recovered value to the previous doc ID.