Number of 1's in bit position i,
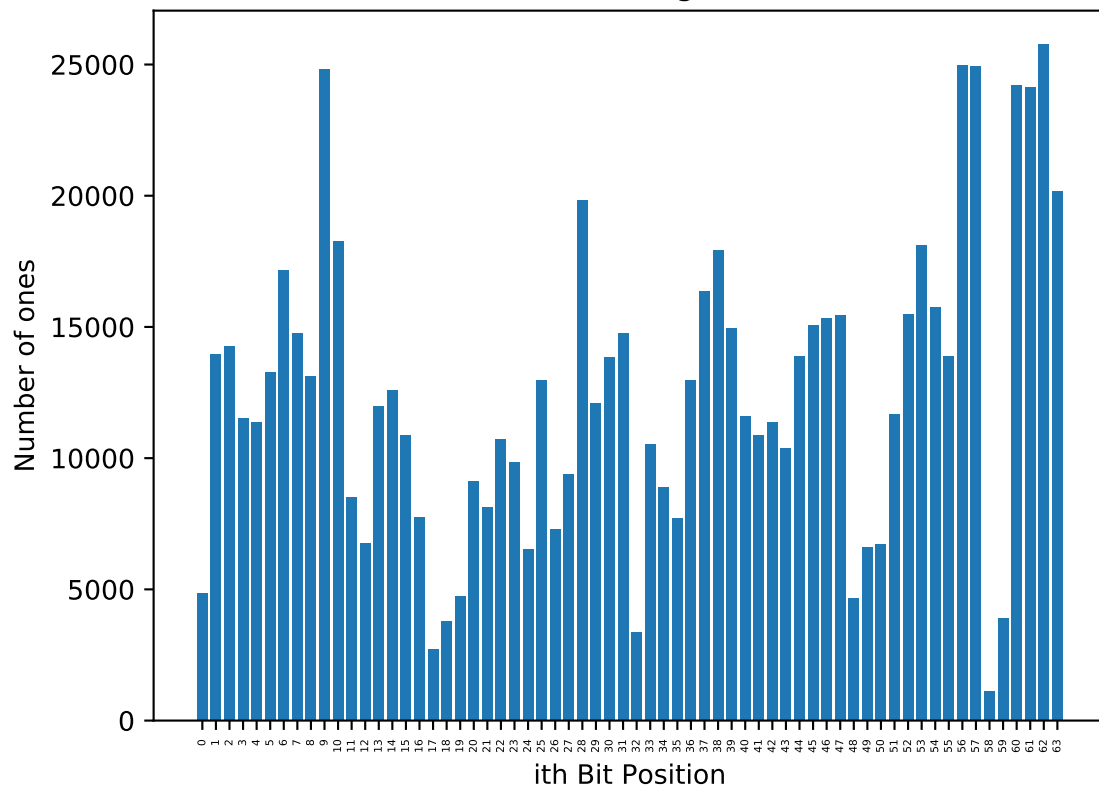Recording 1

Number of 1's in bit position i,
Recording 2